

MINUTES
PUBLIC WORK'S COMMITTEE MEETING
Wednesday, September 13, 2017
5:30 P.M., Allouez Village Hall

Present: Jim Genrich, Rick King, Curt Beyler, Jim Rafter, Lynn Green, Craig Brendt
Brad Lange

1. MODIFY/ADOPT AGENDA

Rafter/King moved to adopt the agenda as presented. All ayes

2. APPROVE MINUTES from the July 12, 2017 meeting.

Rafter/Beyler moved to approve the minutes of July 12, 2017. All ayes

OLD BUSINESS:

NONE

NEW BUSINESS:

3. DISCUSSION/ACTION: RIVERSIDE DRIVE NORTH PEDESTRIAN CROSSING ENGINEERING CONTRACT (DPW Berndt).

Berndt provided a recap of the north pedestrian crossing study by Mead and Hunt. After evaluation, it was determined that the best location of the cross walk would be just south of Marine Street. Berndt has submitted the necessary permit application to WisDot for approval. Two questions were asked of the WisDot;

- 1. Can we place the signals over head? WisDot will not allow this to occur.*
- 2. Can an advanced flashing beacon notice sign be placed on Riverside Drive? WisDot will allow this to occur.*

*Rafter: is it possible to have a red border placed on the advance notice sign?
Berndt will look into this.*

*Beyler: is the engineering costs based on a percentage or not to exceed?
Berndt: this is a not to exceed and covers all aspects of the project.*

King/Rafter moved to recommend to the Village Board the contract for Engineering Services with Mead and Hunt. All ayes

4. DISCUSSION/ACTION: UPDATE ON STREET AND UTILITY CIP PLAN (DPW Berndt).

Berndt provided a spreadsheet listing project estimate costs and year of construction for projects for the next approximately 10 years. This is an update to the current CIP plan, and future updates will occur if the possible Webster Avenue and other projects develop. The Libal Street paving project has been moved back one year to design in 2019 and is reflected in this update.

Discussion: Should the engineering services be put out for bid? It is important to complete the topographic mapping of the street project well in advance. This work is estimated to be around \$25,000. Berndt agreed that proposals for the survey work will be obtained.

Beyler/King moved to recommend to the Village Board approval of using 2017 bond funds to cover the cost of engineering services for the topographic mapping for the 2019 reconstruction project. All ayes

5. DISCUSSION/ACTION: PLACEMENT OF BCSW ORGANIC DUMPSTER AT YARD WASTE CENTER (DPW Berndt).

Berndt provided letter from Brown County Port and Resource Recovery Department with a request to place 1 organic dumpster at the LeBrun Yardwaste site at no cost to the village.

Green/King moved to recommend to the Village Board approval of placing 1 organic dumpster at the LeBrun Yardwaste site. All ayes

6. DISCUSSION/ACTION: LETTER REGARDING GBMSD 2018 DRAFT BUDGET (DPW Berndt).

Berndt briefly explained the 2018 GBMSD budget, which has a slightly lower sewer rate for Allouez than the 2017 rate, and includes GBMSD using a portion of the reserve funds for current projects and establishes an equipment replacement fund for plant equipment. This letter is provided for review prior to the GBMSD budget presentation to the village board at the October board meeting. No action taken at this time.

DISCUSSION:

7. DISCUSSION: PROPOSED 2018 CBCWA BUDGET (DPW Berndt).

No discussion on this item. The draft budget is provided for information prior to the CBCWA budget presentation to the board on September 19th.

8. ADJOURNMENT

Rafter/Beyler moved to adjourn at 6:16pm. All ayes

VILLAGE OF ALLOUEZ

Allouez Village Hall • 1900 Libal Street • Green Bay, Wisconsin 54301-2453
Phone No.: (920) 448-2800 • Fax No.: (920) 448-2850

Department of Public Works

NORTH RIVERSIDE PEDESTRIAN CROSSING ENGINEERING CONTRACT

The conceptual design, crossing location, and permit application was submitted to WisDOT a couple weeks ago for their review. This was completed under the conceptual planning contract with Mead & Hunt. Attached is a drawing of the location of the pedestrian crossing and a picture of the Rectangular Rapid Flashing Beacon (RRFB) crossing signal.

This is a different signal than the south Riverside crossing as this is the only signal option that WisDOT will approve at this time and location. We will be able to meet pedestrian warrants for this location and this RRFB signal. This signal is solar powered and uses radio signals to operate the beacons so power supply and control wiring under the roadway are not needed thus saving costs.

The engineering contract includes final design (location/sidewalks/connection to trail/crossing striping/structural for signals/controls/specs/final DOT approval), bidding services to contractors, and construction administration services to build the crossing. This is similar in cost to the south crossing engineering.

This project includes the sidewalk to the Fox River Trail, but this sidewalk will be installed next spring because property acquisition and permitting connection to the Fox River trail is required.

It is requested that the engineering contract with Mead & Hunt be recommended to the village board for approval. Upon approval the design work will be completed and the project will follow the schedule provided in the contract.

C. Berndt, DPW
August 29, 2017



Contract Amendment

Date: August 25, 2017

Mr. Craig Berndt, Director of Public Works
Village of Allouez
1900 Libel Street
Green Bay, WI 54301

Project Name: Allouez Pedestrian Crossing (North Crossing)
Project Location: Riverside Drive, Village of Allouez
Project number: R0120500-170800.01
Mead & Hunt Manager: Chris Rossmiller

Subject: Amendment No. 1

Dear Mr. Berndt:

The above-referenced PROJECT requires an Amendment. The work in this Amendment is a change to the Scope of Services stated in the original contract between the CLIENT (Village of Allouez) and the CONSULTANT (Mead & Hunt, Inc.) dated March 16, 2017.

The CLIENT agrees that the CONSULTANT shall provide professional consulting services for the PROJECT as set forth in this Amendment and the CLIENT shall provide payment for those services as provided for in this Amendment.

A detailed description of our understanding of the Amended PROJECT Scope of Services, Schedule, and Compensation is provided below.

Reason for Amendment

The Village of Allouez requested preparation of final plans and bid documents to construct a cross walk with a rectangular rapid flashing beacon across Riverside Drive south of Marine Street and provide a connection to the Fox River Trail within the parcel west of Riverside Drive, north of Marine Street. A topographic survey is also included to locate utilities along Marine Street and gather data in the area that was not covered by the previous aerial flight obscured by tree cover.

Amended Scope of Services

The Scope of Services for the PROJECT is amended as follows:

- The following task is added to the Scope of Services:
 - Survey Phase
 - Field survey of project area including utilities and obscured area of the flight data.
 - Process field survey

Final Design Phase

- Prepare final plans and specifications after review by the Village of Allouez and the Wisconsin Department of Transportation (WisDOT). The final plans will consist of:
 - Title Sheet and General Notes
 - Typical section
 - Construction Details
 - Signing and marking plans.
 - Traffic control plans.
 - Miscellaneous quantities
- Construction plans and specifications will be referenced to the latest edition of the Wisconsin Standard Specifications for Road and Bridge Construction.
- Update opinion of probable costs for the construction based on the final design and the most recent bid letting information as supplied by WisDOT.

Bidding Phase

- Prepare and publish an advertisement to solicit bids to construct the project. Advertisement will be posted in official paper of community and on Qwest.
- Prepare contract documents including a plan set, specifications, proposal form, and estimate of probable construction costs.
- Coordinate the bid process including maintaining a plan holders list, distributing bidding documents, conducting the bid opening, producing a summary of bids, and providing the Owner with a recommendation for award of contract.

Construction Phase

If the Village authorizes Construction Observation services, Mead & Hunt shall:

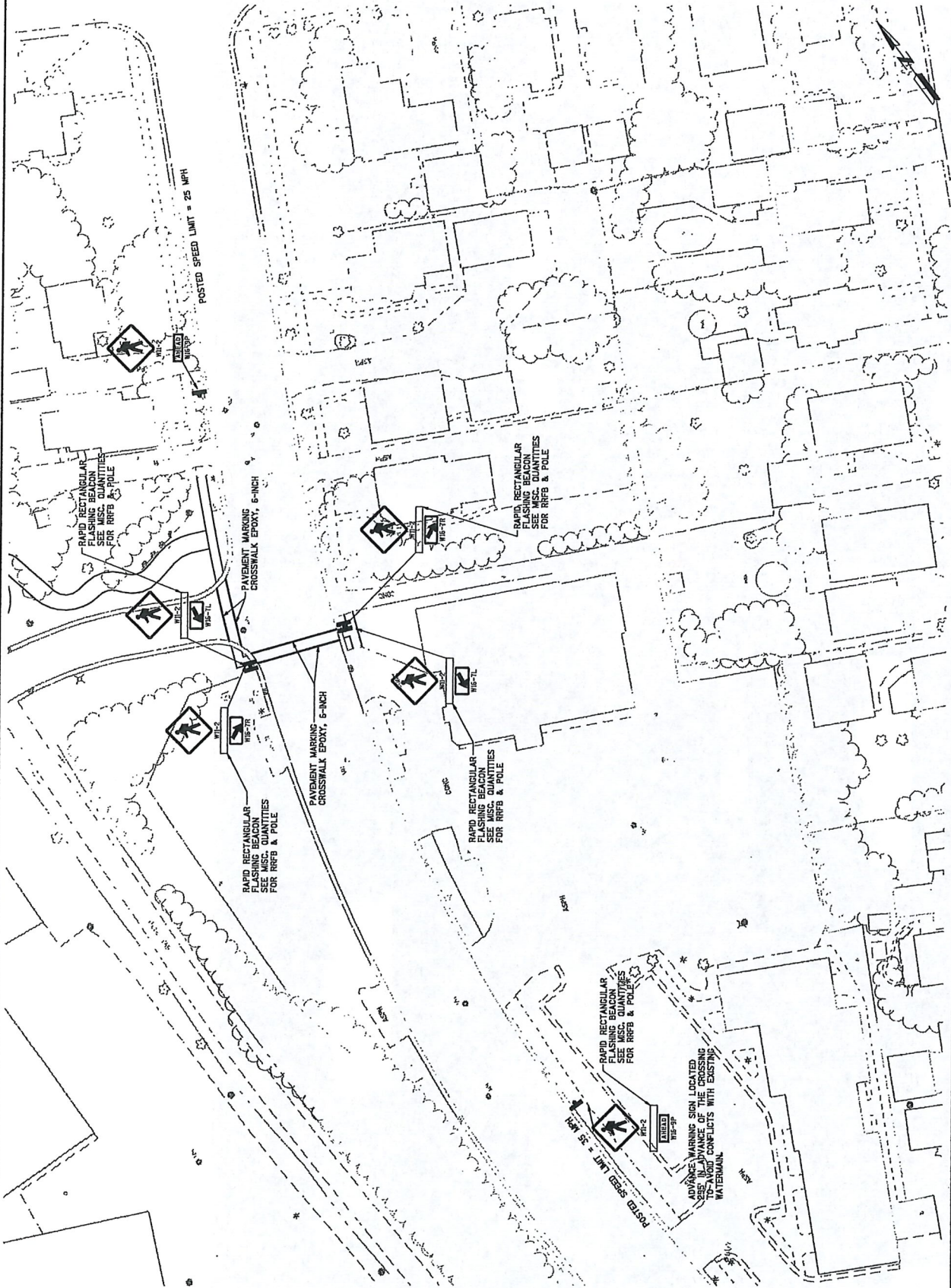
- Provide construction observation during the construction of the concrete footings, placement of the above and below ground signal equipment, and placement and restoration of the concrete sidewalk and curb ramps.
 - Provide construction administration consisting of reviewing and processing pay request (assumes one payment request), change orders and project close out.
- Under Services Not Included in this Proposal, remove the first and fourth bullets:

Amended Schedule

Mead & Hunt proposes the following revised dates to complete the work for this PROJECT:

Anticipated Notice to Proceed for this Amendment	September 1, 2017
Completion of preliminary design phase	Complete
Submittal of final plans and specification	September 15, 2017
Bid Advertisement	October 6, 2017
Bid opening	November 3, 2017
Bid award	November 10, 2017

End date December 1, 2017.







Rectangular Rapid Flash Beacon: RRFB-XL2™

[Activations](#)[More ▾](#)

TAPCO's pedestrian-activated rectangular rapid flash beacon (RRFB) systems produce 80-90 percent driver compliance in yielding to pedestrians at high-risk uncontrolled crossings. When activated by push button or motion detection, LED arrays flash a Federal Highway Administration (FHWA) specified alternating wig-wag pattern.

Side-mounted LED arrays flash concurrently to advise pedestrians that the units are actively flashing. The RRFB system produces the highest yielding rate of all traffic control devices not featuring a red display, and is four times more effective than the common standard round beacon. RRFBs cost less compared to other traffic control devices that produced similar vehicular yield rates.

RRFB Options Include:

- Advance RRFB Wirelessly Linked to Crossing RRFB
- Self-Powered Remote Bollard-Mounted Pushbutton
- Passively Activated Systems

Recommended Applications:

- High-Speed and Multi-Lane Crossings

- School Crossings
- Pedestrian Crossings
- Roundabout Crossings

Extra-Large Beacons Provide Greater Visibility, Ideal for High-Speed and Multi-Lane Pedestrian and School Crossings.



Features & Advantages

- Driver Yielding Rates of 80-90%
- Completely Modular
- Various Mounting Options
- Larger LED Arrays Provide Increased Visibility
- LEDs Exceed FHWA Standards
- Significantly Higher Driver Awareness and Compliance
- Wireless, Synchronized LEDs
- Solar-Powered, Eco-Friendly
- LED Indicators for Pedestrians
- More Effective than Round Beacons
- Product Exceeds SAE J595 Requirements

*80% Reduction to Yield to Pedestrian Traffic!**

Amended Compensation

Based on the work described under the Scope of Services, Mead & Hunt's fees are proposed as estimated costs based on actual costs of time and materials according to the attached Municipal rates Schedule. This amendment includes the addition of a final design, survey, bidding, and construction phase.

Preliminary design phase	\$5,500.00
Final design phase	\$10,500.00 (increase of \$10,500.00)
Survey phase	\$1,750.00 (increase of \$1,750.00)
Bidding phase	\$4,200.00 (increase of \$4,200.00)
Construction phase (if authorized)	\$9,050.00 (if authorized increase of \$9,050.00)

Form of compensation for work in this Amendment will be in accordance with the *Terms and Conditions* of the existing CONTRACT. The Village of Allouez will pay Mead & Hunt an increase of \$25,500 for the work performed under this Amendment. This Amendment results in a revised contract amount of \$31,000 (dollar amount) for the total PROJECT.

Authorization for Amendment

The Amended Scope of Services, Schedule, and Compensation stated in this amendment are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this amendment may be reviewed and modified by Mead & Hunt.

Signatures of authorized representatives of Village of Allouez and Mead & Hunt shall amend the existing Agreement (original CONTRACT and all previous amendments, if applicable) between the two parties, and receipt of one signed copy shall be considered authorization to proceed with the work described in this Amendment. All services will be performed in accordance with the *Terms and Conditions* of the original CONTRACT and amendment, if applicable. If a signed copy of this Authorization is not received by Mead & Hunt, Inc. within seven (7) days from the date of issuance, Mead & Hunt, Inc. may stop work on the above services.

Respectfully submitted,

MEAD & HUNT, Inc.

Christopher Rossmiller

Attachments

Village of Allouez
August 25, 2017
Page 4

Accepted by: VILLAGE OF ALLOUEZ

Approved by: MEAD & HUNT, INC.

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

*The above person is authorized to sign for Client
and bind the Client to the terms hereof.*

Date: _____

Date: _____

VILLAGE OF ALLOUEZ

Allouez Village Hall • 1900 Libal Street • Green Bay, Wisconsin 54301-2453
Phone No.: (920) 448-2800 • Fax No.: (920) 448-2850

Department of Public Works

LONG RANGE CAPITAL IMPROVEMENT PLAN UPDATE September 2017

The following comments apply to the update to the Public Works Long Range CIP Plan. This is an on-going plan and will have future updates as needed.

Summary:

1. The Street Maintenance Projects (paving) are finalized for 2018. The total work will increase to \$500,000 because direct bill of the fire protection charge is fully implemented.
2. The Street Maintenance Projects beginning in 2019 will be further evaluated and the street list updated later this year. The street list and schedule is preliminary at this time.
3. The Street and Utility Reconstruction Projects funding level is proposed at a project bid level (actual expenditure) of approximately \$2.5 million or slightly more in alternate years. This increase is because projects need to be completed sooner due to the extensive backlog of street and utility work to be completed. The intent is to complete the largest portion of the village total reconstruction needs by 2029.
4. The Street and Utility Reconstruction projects proposed for 2019 includes the remaining section of Longview, all of Oakwood Avenue, and two side streets (Oakhill, Summit) that connect into Oakwood. Oakwood Avenue is the next highest priority street for reconstruction. The actual cost of these projects is likely to be in the range of \$2.5-2.7 million.
5. The Allouez portion of the sewer and water replacement on Riverside Drive in 2020 is the best estimate at this time. The construction cost will be estimated as the current cost is a placeholder only.
6. The stormwater treatment projects are shown in 2019 and 2021. These must be submitted to the WDNR in 2018 to qualify for loan/grant funding and approval. The proposed construction schedule is a result of the funding schedule and the need to construct during the Riverside Drive reconstruction project.
7. The Libal Street resurfacing project is funded by federal assistance. The design schedule is likely to move to 2021 by the MPO with construction in 2024.

8. A possible Webster Avenue commercial development project, or the repair of Webster Avenue if a separate project, are not included in the CIP at this time. It will be added if the project moves forward.

Conclusions:

1. Funding for reconstruction projects increased to expedite completion of the projects in most need. It is recommended that this higher funding level be established for the next (2019) and future projects.
2. The 2019 reconstruction project should begin design in the near future. The topographic survey should be completed in 2017 and design early in 2019. There is the possibility that a federal stimulus program for infrastructure will be approved in 2018. This project could qualify for this program but the design must be completed and the project ready for construction. Funds may be available in the current bond issue for design, or as in past projects, design funds reimbursed from the future project bond.

It is recommended that the topographic survey of the 2019 streets be completed, and the design proceed in a timely manner using funds available in either the current bond issue or the future bond issue.

C. Berndt, DPW
August 30, 2017

- ① Paying projects for 2018.
- ② Reconstruction for 2019.
 - a. Design funds
 - b. stimulus funding possible - should ready.
 - c. increased funding due to need, too long to reach goals
- ③ will be updating w/ Webster + Riverside Park costs

STREET MAINTENANCE AND RECONSTRUCTION PROJECTS

Street Maintenance Projects (Mill/Overlay and Redlining-Funded In Public Works Operating Budget)

Year 4-2016	Year 2-2017	Year 3-2018	Year 4-2019	Year 5-2020	Year 6-2021	Year 7-2022	Year 8-2023	Year 9-2024	Year 10-2025	Year 12-2027	Year 14-2029
Hawthorne(\$76k) Chandley Ave(\$97) Miramar(\$75k)	E. River (Briar-Longview)(\$140k) E. Briar Lane(Briar Ter-700 blk)(\$89k) LeBrun (\$75k) E. River (Hoffman-Park Drive (\$9k)-Briar) (\$136k) Alternate bid	Warren Ct (\$125k) Floral (\$120k) E. River (Longview-LeBrun)(\$120k) Overlays (\$125k)	Fernwood Custer Ct. Roselawn(San) Arbor Lane/Stanton Ridgeview St. Joseph (\$200k)(1)	Maintenance Projects from 2019 to 2025 are draft only. Subject to schedule changes. Tower View(San) Bertrice Sunnyslope Sunrise Ln Woodrow Way St Francis	Crescent Simonet Jenkel Trace Summit Rustic Oaks S. Van Buren	Briar Ln Whitney Hilltop Chardonmay Cameo Ct. Floral Clay Allouez Ter	Warren Ct Jackson Kenney Lola Dr(San) Floral Clay	Memory Gwynn Hickory Cr Greenwald Glenhaven Grass	Braebourne Fairview E. Dauphin Garland	Future projects to be determined.	
Cost	\$985,100	\$500,000	\$500,000 (1)Add \$200k St Joseph TIF project 2019	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000

Street and Utility Reconstruction Projects-Bond Financing

Year 4-2016	Year 2-2017	Year 3-2018	Year 4-2019	Year 5-2020	Year 6-2021	Year 7-2022	Year 8-2023	Year 9-2024	Year 10-2025	Year 12-2027	Year 14-2029
	Bryan St (\$875k)(Paser2/San/Sun)(1969) St. Joseph (Libat-E. River)(\$400k)(Paser2) Longview(Clay-Delhaul)(\$700k) (Paser2,4/MM/San)(1980) Jourdain (Brookridge-Dauphin) (\$200k)(Paser2)(1965) DuCharme (\$300k)(Paser2,7/San)(1974) (Miramar to Iroquois) Debie(\$500k)(Paser2)(1968)	Oakwood(Greene-Allouez)(\$1.60M) (Paser 2,3/San)(1984) Longview(Delhaul-Libal)(\$600) (Paser 4/MM/San)(1980) Oakhill (Paser 3/San/MM)(\$350k) Summit (Paser 3/San/MM)(\$350k)	St. Mary's (\$1.25M) (Paser 3/San)(1983) Beaumont(Greene to Mission)(\$1.25M) (Paser 3/MM)(1971) Kalb (\$750k)(w/Bethel SW Project)(2)	St. Mary's (\$1.25M) (Paser 3/San)(1983) Beaumont(Greene to Mission)(\$1.25M) (Paser 3/MM)(1971) Kalb (\$750k)(w/Bethel SW Project)(2)	Brevort/Vietz/Stambaugh(\$1.0M) (Paser 3/San Sewer) Karl (\$1.025M)(1974) (Paser 3/San) E. Greene (\$750k)(Paser 3)	Delahaut (\$1.425M) (Paser 4/San/Sun) Briar Ln(Clay-Libal) (\$1.25M)(Paser 3/2)	Delahaut (\$1.425M) (Paser 4/San/Sun) Briar Ln(Clay-Libal) (\$1.25M)(Paser 3/2)	Memory Gwynn Hickory Cr Greenwald Glenhaven Grass	Braebourne Fairview E. Dauphin Garland	Future projects to be determined.	
Sub-Cost	\$2,675,000	\$2,900,000 (2)Kalb St same time as Bethel SW Project	\$2,900,000 (2)Kalb St same time as Bethel SW Project	\$2,900,000 (2)Kalb St same time as Bethel SW Project	\$2,900,000 (2)Kalb St same time as Bethel SW Project	\$2,775,000	\$2,775,000	\$2,675,000	\$2,675,000	\$2,575,000	\$2,250,000

Stormwater Treatment Projects-Fund 61 + Grants

Year 4-2016	Year 2-2017	Year 3-2018	Year 4-2019	Year 5-2020	Year 6-2021	Year 7-2022	Year 8-2023	Year 9-2024	Year 10-2025	Year 12-2027	Year 14-2029
		Bethel SW Pond/Kalb St (\$300k) (Finance via SW Utility)	Bethel SW Pond/Kalb St (\$300k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)	Riverside Drive SW Cloverleaf Ponds (\$750k) (Finance via SW Utility)
Sub-Cost	\$75,000	\$2,900,000 \$300,000	\$2,900,000 \$300,000	\$2,900,000 \$300,000	\$2,900,000 \$300,000	\$2,775,000	\$2,775,000	\$2,675,000	\$2,675,000	\$2,575,000	\$2,250,000

WisDOT Projects-Allowe Cost Share and Utility Replacement-Bond Financing

Year 4-2016	Year 2-2017	Year 3-2018	Year 4-2019	Year 5-2020	Year 6-2021	Year 7-2022	Year 8-2023	Year 9-2024	Year 10-2025	Year 12-2027	Year 14-2029
Sub-Cost	\$75,000	\$2,900,000 \$300,000	\$2,900,000 \$300,000	\$2,900,000 \$300,000	\$2,900,000 \$300,000	\$2,775,000	\$2,775,000	\$2,675,000	\$2,675,000	\$2,575,000	\$2,250,000

Updated: 11/4/2016; 8/18/2017

File: Street Utility CIP Plan September 2017

(4) Webster Avenue project costs preliminary.

(3) May be 2024 construction (as in CIP) or 2025.

(5) Preliminary cost only.

DRAFT

2018-2022 Transportation Improvement Program

for the

Green Bay Urbanized Area

Brown County Planning Commission
Metropolitan Planning Organization (MPO) for the Green Bay Urbanized Area
September 2017

Primary Jurisdiction Project Sponsor	Project Description	Type of Cost	Jan - Dec 2018				Jan - Dec 2019				Jan - Dec 2020				Jan - Dec 2021				For Information Only Jan - Dec 2022			
			Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total
Village of Allouez	Libal Street STH 172 to Kalb St Resurface with bike lanes & some sidewalk	DESIGN RE CONST TOTAL					0 0 0 0	284 0 0 0	0 0 0 0	71 0 0 0	355 0 0 0											
Illustrative only	1.60 miles P	TOTAL	0	0	0	0	284	0	71	355												
							STBG-Approval Pending												STBG-Approval Pending			
Village of Bellevue	Maritowoc Road Allouez Avenue to Kewaunee Rd (STH 29) Rehabilitation with bike lanes & sidewalk 4516-08-71	DESIGN RE CONST TOTAL	Project approved for \$1,607,909 in STBG funds in 2015. Do to a revised cost estimate, the applicant is requesting an additional \$1,032,091 in STBG funds and a program move from 2020 to 2021.																			
158-16-016 (2021)	1.45 miles P	TOTAL																				
City of De Pere	Lawrence Drive 500' s/o Fortune Av to Scheuring Rd Reconstruction with improved crosswalk & bike lane	DESIGN RE CONST TOTAL	669 0 0 669	0 0 0 0	188 0 0 188	837 0 0 837	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0											
Illustrative only		TOTAL	669	0	188	837	0	0	0	0	0											
							STBG-Approval Pending								STBG-Approval Pending							
Green Bay Metro	Replacement Buses Two 35' buses in 2018 Three 40' buses in 2019 Three 35' buses in 2021 Three 40' buses in 2022	EQUIP EQUIP EQUIP EQUIP TOTAL	766 0 0 0 766	0 0 0 0 0	192 988 0 0 1,180	988 0 0 0 988	1,183 0 0 0 1,183	0 296 0 0 296	1,980 0 0 0 1,980	0 0 0 0 0	0 0 0 0 0											

PORT & RESOURCE RECOVERY DEPARTMENT

Brown County

2561 SOUTH BROADWAY
GREEN BAY, WI 54304

PHONE: (920) 492-4950 | FAX: (920) 492-4957

DEAN R. HAEN

DIRECTOR

August 18, 2017

Craig Berndt
Village of Allouez
Public Works Director
1900 Libal Street
Green Bay WI 54301

RE: Placement of Organic Dumpster at the Village of Allouez Yard Waste Center

Dear Mr. Berndt,

Brown County has administered an organics recycling program for the past three years as an option for residents to beneficially recycle organic materials generated in their homes and to avoid disposing of this resource in a landfill. Currently, there are two drop-off locations; one at the Port & Resource Recovery office 2561 South Broadway St. and the second location at 1150 Bellvue Street where UW-Extension used to be. We are looking to relocate the second location because the property is no longer county owned.

Details of the organics program can be found at the following link:

<https://www.browncountyrecycling.org/program-details>

Brown County Port & Resource Recovery Department requests permission to use the yard waste site for placement of the organics dumpster at the Allouez Village yard waste center at the end of LeBrun St in the Village of Allouez.

BROWN COUNTY RESPONSIBILITIES:

- Coordinate the placement of the Organics Bin from Sanimax
- Pay the pickup/recycling fee from Sanimax
- Currently schedule is spring/summer pick ups every two weeks, fall/winter pick ups every three to four weeks, adjustments will be made if needed.

VILLAGE OF ALLOUEZ RESPONSIBILITIES:

- Control access to the drop-off location with gates and provide the same access and hours as the Village of Allouez's yard waste site.

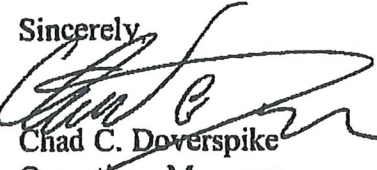


POINTS OF CONTACT.

Chad C. Doverspike, Operations Manager Brown County Port & Resource Recovery Department
2561 South Broadway St.
Green Bay WI, 54304
Phone – (920) 492-4955
Fax – (920) 492-4957
Email: doverspike_cc@co.brown.wi.us

Craig Berndt, Public Works Director Village of Allouez
1900 Libal Street, Green Bay WI 54301
Phone – (920) 448 - 2800
Fax – (920) 448 - 2850
Email: craig@villageofallouez.com

Sincerely,


Chad C. Doverspike
Operations Manager



Central Brown County Water Authority

Draft

2018 Annual Budget

Capital Improvement Program

And

Member Cost Allocation

9/5/2017

Central Brown County Water Authority
3100 Eaton Road
Bellevue, WI 54311
920-884-1077 ext 5
manager@cbcwa.com

Introduction

Central Brown County Water Authority

The Central Brown County Water Authority was established in December 2003 with the signing of the Water Purchase and Sale Agreement between the member communities of the City of De Pere, Villages of Allouez, Bellevue and Howard and the Towns of Lawrence and Ledgeview (with the Ledgeview Sanitary District) and the Water Authority. The Authority was created to develop a communal water system to replace the individual well systems previously used by member communities as their primary water sources.

Its 65 miles of pipeline and 11.5 million gallon storage facilities allow the purchase of treated water from Manitowoc Public Utilities and the reliable delivery of consistently high quality water to our six member communities. The Authority celebrated 10 years of continuous service in September, 2017.

The Authority is audited annually. It remains sound financially and continues to meet all operating, debt service and bond coverage requirements.

Organization and Staffing

The Authority is supervised by a Board consisting of one representative from each member community. The Board meets monthly with special meetings called as necessary. A Technical Committee meets in advance of each Board meeting to review operations and plan and evaluate capital improvements for Board consideration. The Authority is staffed by a part time manager with operation and maintenance services provided by Manitowoc Public Utilities under a contract arrangement with the Authority. Board and Committee members and staff are identified below.

Board	Technical Committee
President, Sarah Burdette, Town of Ledgeview	Chair, Scott Thoresen, City of De Pere
Vice-President, Geoff Farr, Village of Howard	Vice-Chair, Mark Pansier, Town of Ledgeview
Secretary/Treasurer, Randy Treml, Town of Lawrence	Craig Berndt, Village of Allouez
Lynn Green, Village of Allouez	Shawn Geiger, Village of Bellevue
Angela Gorall, Village of Bellevue	Geoff Farr, Village of Howard
Larry Delo, City of De Pere	Kurt Minten, Town of Lawrence

Staff

Manager, David Vaclavik, P.E.

Agendas and minutes from all meetings and other information related to the Authority can be found at our web site; www.CBCWA.com.

Issues and Events

Central Brown County Water Authority is aware of its impact on its member's water utilities. The Authority is committed to maintaining efficient operations and planning for the future. Recent major events included:

- Strategic planning. The Authority undertook a strategic planning process in 2015 and adopted a formal plan establishing goals and objectives. This plan will be updated in 2017-2018 to set priorities for the next several years. Topics of discussion will include:
 - Expansion to include new members.
 - Operation, maintenance and asset management.
 - Increased collaboration between Authority members and neighboring utilities.
 - Opportunities and challenges
- Authority members currently rely on wells to provide emergency service to their communities. While safe to drink, there is a noticeable difference between the well water and that provided by Manitowoc Public Utilities and the Authority. The Authority and Green Bay Water have agreed to evaluate the potential for system interconnects to provide emergency services to each other. The results of that effort should become available in late 2017 and will become the subject of discussion with Green Bay Water. If financially viable, interconnection may eventually allow some or all Authority members to abandon their wells.
- 2017/2018 will also see further evaluation of collaborative opportunities with area communities and, hopefully, the conclusion of negotiations with Manitowoc Public Utilities regarding amendments to our water purchase agreement.

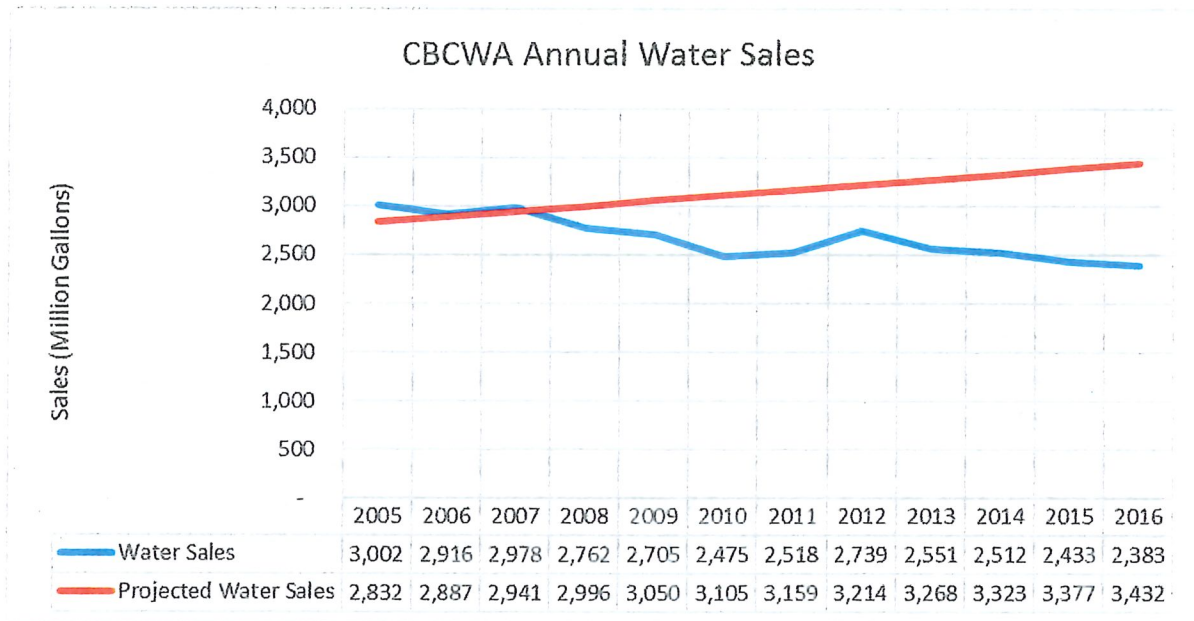
Water Consumption

Water consumption trends nationally continue to indicate decline in per capita use and major reduction in both commercial and industrial sales. This trend has also been experienced locally. Authority members are continuing to grow and add new customers. Regardless of this growth, a combination of weather conditions, water conservation efforts and active water loss prevention efforts by the member communities have combined to lessen the quantity of water sold by the Authority. Members have implemented significant water loss detection and prevention programs that have been effective in reducing their metered water consumption. While this is commendable and represents sound policy, the reduction in water sales has only a limited impact on the Authority's budgeted expenses because of the large percentage of the Authority budget dedicated to retiring debt.

One of the major issues facing the Authority and a significant factor in the development of water rates has been the difference between growth projected when the project was planned and the decline in sales that was actually experienced. While operating and debt service costs remain below estimate, rates have increased more rapidly than projected to offset the decline in consumption. The Authority hopes to counter some of this impact by an active effort to increase membership and increase sales.

Authority Water Sales as compared to Projected Water Sales developed at the start of the project since 2005 are shown in the following chart. Authority service to members began in September 2007.

Central Brown County Water Authority 2018 Draft Budget



In preparing 2018 estimates, the Authority contacted each member community, reviewed flow data and worked to make a reasonable projection of consumption. 2018 projections include a small decline in estimated consumption from 2.495 billion gallons in 2017 to 2.482 billion gallons. Actual 2014, 2015 and 2016 consumption, and projected 2018 volumes as well as contractual minimum purchases for each member community are shown in the following table:

Central Brown County Water Authority 2018 Water Use Projection Summary (Thousand Gallons)					
	2014	2015	2016	Contract	2018
	Actual	Actual	Actual	Minimum	Projected
Allouez	420,340	417,362	389,759	355,882	410,000
Bellevue	416,694	412,283	394,580	360,553	415,000
De Pere	753,002	755,502	771,423	717,800	800,000
Howard	662,134	601,609	586,452	585,424	610,000
Lawrence	75,796	78,152	77,403	53,118	82,000
Ledgeview	183,853	167,592	163,520	139,691	165,000
Total	2,511,819	2,432,500	2,383,137	2,212,468	2,482,000
MPU Take or Pay					2,484,433

The Authority has a contractual obligation with Manitowoc Public Utilities to purchase a minimum of 2,484,433 thousand gallons annually. The Authority failed to meet this minimum in 2015 and 2016 and water sales through the end of July, 2017 indicate a significant likelihood that total sales for the year will also be under this minimum. Sales projections for 2018 also reflect a sub-minimum water use. When this occurs, the Authority is contractually obligated to pay for this minimum volume regardless of actual use.

This minimum take or pay requirement will be discussed in planned negotiations with Manitowoc Public Utilities.

2018 Proposed Budget

The Authority budget is established annually based on projected operating costs, planned capital improvements, debt service and reserve requirements. In accordance with the Water Purchase and Sale Agreement with its member communities a draft budget is issued no later than 120 days before the end of the calendar year. Adoption of the budget occurs not sooner than 21 days after issuance to allow member communities the opportunity to comment and/or ask questions pertaining to the budget.

The Authority maintains a number of distinct reserve funds used for designation of monies for specific purposes. Briefly, the 2016 budget reflects the following:

- **Security Fund.** The agreement between the Authority and its members established a security fund maintained by the Authority on behalf of each member. This interest-bearing fund maintains individual records by community in the event of non-payment. Interest credited to this fund by the Water Authority is based on the Public Service Commission established interest rate to be applied in 2016 for customer funds retained by utilities. In 2016, this rate was 0.05%. A rate of 0.1% has been estimated for 2017 but will be adjusted once the PSC sets an official rate in December.

Each member is required to have two months of budgeted expenses set aside. Members that drop below this level are levied a surcharge to bring the account into balance. Members who accumulate a reserve in excess of three months are given a rebate. Current projected Security Fund balance at the end of 2017 is \$2,043,627. Maintaining 2 months minimum balance through 2018 will require approximately \$17,933 in additional contributions from member communities. These costs are developed later in this document.

- **Debt Service Fund.** The Debt Service Fund is used to hold accumulated revenues to make the required twice yearly debt service payments on the Authority's bonds. In 2017, the amount needed to meet debt obligations was \$9,227,433 representing a significant budget increase from the 2016 budgeted total of \$8,368,323. This boost resulted from a step increase in the debt service for the Authorities 2014 refunding bond issue. This was the last scheduled increase and debt service for 2018 (\$9,277,777) and future years will remain relatively constant until the bonds are either refinanced or retired. Opportunity may exist in 2024 to refinance the Authority's major bond issue reducing debt further and potentially easing bond covenants. This will be considered at the appropriate time.
- **Coverage Account.** The Authority must generate revenue in excess of operating and debt costs annually plus retain a coverage account equal to 125% of maximum annual debt service over the life of the bonds. The majority portion of this is maintained by an insurance policy purchased in conjunction with the 2014 refunding bond issue. The balance of this fund has been established with a cash reserve of \$2,400,000.

Central Brown County Water Authority 2018 Draft Budget

- Operation and Maintenance Reserve. This fund is required by policy to hold 3 months of budgeted operation and maintenance expenses. For 2018, the fund has been established with a balance of \$750,000.
- Maintenance, Repair & Replacement Fund. This fund was established by the Board to develop a reserve for major repair or replacement expenses not anticipated in the Capital budget. The 2017 fund will have a \$2,000,000 balance initially and may receive further contributions depending on fund availability.
- Capital Improvement Program. The Authority adopts a Capital Improvement Plan annually in conjunction with budget adoption. The 2017 budget includes \$655,000 for improvements designed to improve operational efficiency of the system and reduce energy consumption. Several of these projects are being contested with MPU as to which Utility is responsible for cost and initiation. The budget anticipates funding \$280,000 through the rate system and any remaining balance using reserves.
- Unrestricted Funds. Any funds remaining after funding the aforementioned accounts will be unrestricted and may be used for any Authority purpose including additional rebates to members. Increased debt service and associated coverage requirements in prior years resulted in the need for significant rate increases through 2017. The Authority has significant cash reserves due to the bond refinancing. This budget anticipates that a portion of these reserves will be to mitigate rate increase impact on members. Through rebating of cash reserves, the budget impact of rate increases on member communities will be held to no more than 3% annually for 2016-2020. .

The 2018 budget is summarized in the following paragraphs. A line item detailed budget is included as Appendix C.

Expenditure Projections

The Authority's annual debt obligation is the largest percentage of the Authority budget. There are two components to the debt; the 2014 refunding bonds and the 2014 Safe Drinking Water Loan. Bond schedules for the Authority debt are included as Appendix A. Debt service costs for 2018 are virtually identical to 2017 obligations and will remain relatively constant from this point until debt is retired in 2035. Debt Service is paid twice yearly on the first of May and November.

Operational costs consist primarily of fees and charges for service from Manitowoc Public Utilities. These charges vary with demand but it is important to note that there is a minimum annual purchase requirement regardless of actual consumption. This came into effect at the end of 2010 and again in 2015 and 2016. It appears that sales in 2017 may also be below minimum.

The following Table lists 2017 and 2018 operating and debt service budgetary expenditures.

2017-2018 Budget Expenditures

	2016	2017
Debt Service & CIP	\$9,227,365	\$9,507,777
Water Purchase	2,350,000	2,350,000
Other Operating Expense	625,421	645,742
Total	\$12,202,786	\$12,503,519

Capital Improvement Plan

The Authority has adopted the practice of projecting a 10-year Capital Improvement Plan (Appendix B). This plan includes known system needs that will improve the longevity or operating characteristics of the distribution system. The Capital Improvement Plan contains funds for several projects designed to reduce energy costs as well as annual funding for minor projects and some improvements at the water treatment plant and transmission system. Expansion of the Howard booster station serving the Village of Howard is included as a project in the last year of the CIP. It is a project that isn't currently needed to meet demand and will be scheduled appropriately when conditions warrant. Several engineering and construction projects are anticipated in 2018 with a total anticipated cost of \$655,000. A substantial portion of this is for projects at MPU for which responsibility is currently being negotiated.

The 2018-2027 Capital Improvement Plan is included as Appendix B.

2018 Security Fund Charges

Security Fund charges are calculated individually for each member based on their accumulated balance as compared to their obligation based on two months of budgeted cost allocation. Charges for those members with balances owing are added to the monthly invoice from the Authority as a surcharge. In 2018, all members exceed their minimum balances. Security Fund calculations are based on 2017 projected year-end balance, estimated interest in 2018 based on a PSC projected authorized interest rate of 1.0% and required fund balances based on 2018 budget allocations, are shown below.

2018 Security Fund Charges					
	2017	Projected	2018	2018	Annual
	Fund Balance	2018 interest	Balance	Requirement	Charge
Allouez	366,572	3,683	370,255	337,567	-
Bellevue	371,544	3,733	375,277	341,683	-
De Pere	654,845	6,579	661,424	658,667	-
Howard	502,059	5,044	507,103	502,233	-
Lawrence	72,353	727	73,080	67,513	-
Ledgeview	139,303	1,399	140,702	135,850	-
Total	2,106,676		2,127,841	2,043,513	-

It is important to note that security fund balances are not Authority funds but are funds belonging to the members held by the Authority. The security fund was created to improve the borrowing position of the Authority when it first went into the bond market in 2005 and has been included in bond covenants since. These covenants should be reconsidered should the Authority decide to refinance its bonds after they can be called in 2024.

Revenue Projections

The Water Authority budget and rate system operate somewhat differently from other utilities in the state. The Authority water rates are cash based rather than using a rate of return system. Additionally, the Authority rate system is contractually designed so that it always recovers adequate funds to meet debt, operations and reserve requirements. This was set up to avoid the possibility of failing to meet coverage requirements in years when sales failed to meet projected totals.

Instead of using flow projections to create a unit rate and then billing based on that rate, the Authority uses flow projections to assign proportionate shares of the budget. Each member makes 12 equal monthly payments based on the member's estimated projected share of the budget. The Authority then goes through an annual true-up process. This process calculates each member's obligation based on actual percentage of water sales. True-up charges are applied early the following year, with members receiving either invoices or rebates to insure that all pay an appropriate share and that the calculated water rate from the Authority is the same for each..

Revenue sources include interest earned, capacity charges from new connections to local systems and volume based rates.

Revenue from Interest and Fees

The majority of the Authority's revenues come from volume-based charges to its member communities. In addition, it receives interest on investments and connection fee revenues from development within its member communities. 2016 connection data showed a modest increase in the rate of new customer additions within member communities indicating continued growth in the region. The following Table

shows the number of total connections and annual revenue from 2007 through 2016. 2017 data will not be available until early 2018.

Water Supply Connection Charges		
2007-2016		
Year	Number of Connections	Total Revenue
2007	623	\$211,188
2008	353	\$125,558
2009	307	\$114,960
2010	335	\$143,056
2011	213	\$85,726
2012	328	\$108,658
2013	270	\$85,192
2014	308	\$131,060
2015	281	\$88,962
2016	300	\$103,660

The 2018 budget includes a conservative estimate of projected revenues from connection fees of \$95,000.

Interest rates remain low although we are seeing some increases. Return on the Authority's invested capital is estimated to be \$75,000 in 2018; up from the \$40,000 budgeted for 2017. By state statute, the Authority has limited investment choices designed to protect principal and limit investment risk.

In total, the 2018 budget includes \$170,000 in non-rate revenue generated from interest and fees

Rate Stabilization

The 2014A Refunding and 2014B Safe Drinking Water Loan Bond issues require 100% coverage of operating expenditures and debt service by rate revenues. The 2014 bond payments escalated through 2017 before leveling off in 2018. By covenant, this escalation required significant rate increases in 2016 and 2017 of 6% and 14%, respectively. After the refunding bonds were sold, the Authority retained substantial cash reserves. While coverage requirements prohibit the Authority from reducing rates directly, they do allow the Authority to offset rate increases by issuing rebates to members. As approved by the Board, a rate stabilization plan was created and funded with \$2.5 million in unrestricted funds to be distributed to members as needed to hold the impact of annual rate increases to a maximum of 3% through 2020. A table showing the anticipated schedule for these rebates based on a 2% annual increase to operating costs, projected debt schedules and estimated water sales volumes is included as Appendix D. Note that the decline in sales projections and corresponding rate increases have increased the amount of funding required to meet impact goals and may need to be revisited as a matter of policy as the Authority's reserves dwindle.

Water Rates

While the Authority ultimately bills each member a uniform amount monthly based on budgeted projections, the calculation of a water rate per thousand gallons is an industry standard and commonly understood measure. The calculation of unit rates for 2018 is shown in the Table below. The rate of \$4.95 represents a \$0.06 increase (1.2%) almost entirely driven by the decline in projected water sales. The O&M rate for 2018 of \$1.15 is unchanged from 2017.

Summary Calculation of 2018 Water Rate			
	Budgeted	Projected	2018
	Costs	Sales	Unit Rate
			per 1000 gal
Fixed	\$ 9,412,777	2,482,000	\$ 3.79
O&M	2,860,742	2,482,000	\$ 1.15
	\$12,273,519		\$ 4.95

Rebate

As discussed in the rate stabilization paragraphs and shown in Appendix D, the Central Brown County Water Authority has established a policy to use accumulated reserves to hold the impact of rate increases to 3% through the 2020 budget. In 2018 this will require a rebate of \$0.38 per 1000 gallons of projected water use, down from \$0.46 in 2017. The rebate will be applied to the allocation of fixed costs. The rebate rate calculation is shown below.

2018 Rebate Calculation	
2018 Allowed Rate Impact	\$ 4.57
2018 calculated rate	\$ 4.95
Rebate \$/1000 gal	\$ 0.38

Note that members will be billed based on the 2018 rate of \$4.95. This is a \$0.06 (1.23%) increase from the 2017 rate of \$4.89

Member Cost Allocation

The Authority allocates costs to members based on projected consumption for the budget year. This is then adjusted at year end to reflect actual consumption patterns and Authority expenditures to the extent possible through a “true-up” charge process. In all cases, the Authority’s revenue stream is guaranteed by the contractual arrangement with its members.

Central Brown County Water Authority 2018 Draft Budget

The following table shows the allocations for 2018 based on projected water consumption for each member community. The total allocation of \$12,261,080 represents the 2018 budget less non-rate revenues and use of reserves for capital projects. The Authority will issue \$936,739 in member rebates based on the calculated rebate rate of \$0.38/1000 gallons. With Board approval, rebates will be issued lump sum in conjunction with the true-up charge process for the 2017 budget year in early 2018.

CBCWA Member Charges and Rebates - 2018						
	Annual	Fixed	O&M	Annual	Rebate	Total
	Flow	\$ 3.79	\$ 1.15	Allocation	\$ 0.38	After
						Rebate
Allouez	410,000	\$ 1,553,900	\$ 471,500	\$ 2,025,400	\$ 154,739	1,870,661
Bellevue	415,000	\$ 1,572,850	\$ 477,250	\$ 2,050,100	\$ 156,626	1,893,474
De Pere	800,000	\$ 3,032,000	\$ 920,000	\$ 3,952,000	\$ 301,930	3,650,070
Howard	610,000	\$ 2,311,900	\$ 701,500	\$ 3,013,400	\$ 230,222	2,783,178
Lawrence	82,000	\$ 310,780	\$ 94,300	\$ 405,080	\$ 30,948	374,132
Ledgeview	165,000	\$ 625,350	\$ 189,750	\$ 815,100	\$ 62,273	752,827
Total	2,482,000	\$ 9,406,780	\$ 2,854,300	\$12,261,080	\$ 936,739	\$11,324,341

Summary of Member Charges

Members will be billed based on their annual allocation and any amounts owing to the Security Fund. Total charges to members are summarized below.

CBCWA Annual Member Charges - 2018				
	Annual	Security		
	Allocation	Fund	Total	Monthly
Allouez	2,025,400	\$ -	\$ 2,025,400	\$ 168,783
Bellevue	2,050,100	\$ -	\$ 2,050,100	\$ 170,842
De Pere	3,952,000	\$ -	\$ 3,952,000	\$ 329,333
Howard	3,013,400	\$ -	\$ 3,013,400	\$ 251,117
Lawrence	405,080	\$ -	\$ 405,080	\$ 33,757
Ledgeview	815,100	\$ -	\$ 815,100	\$ 67,925
Total	12,261,080	\$ -	\$ 12,261,080	\$ 1,021,757

Appendices

Appendix A - Debt Service Schedules

2014A Refunding Bonds				
Date	Principal	Interest	Total	Annual
11/1/2014	1,000,000	1,032,062.50	2,032,062.50	2,032,062.50
5/1/2015		2,643,875.00	2,643,875.00	
11/1/2015	1,205,000	2,643,875.00	3,848,875.00	6,492,750.00
5/1/2016		2,631,825.00	2,631,825.00	
11/1/2016	2,235,000	2,631,825.00	4,866,825.00	7,498,650.00
5/1/2017		2,587,125.00	2,587,125.00	
11/1/2017	3,390,000	2,587,125.00	5,977,125.00	8,564,250.00
5/1/2018		2,502,375.00	2,502,375.00	
11/1/2018	3,560,000	2,502,375.00	6,062,375.00	8,564,750.00
5/1/2019		2,413,375.00	2,413,375.00	
11/1/2019	3,735,000	2,413,375.00	6,148,375.00	8,561,750.00
5/1/2020		2,320,000.00	2,320,000.00	
11/1/2020	3,925,000	2,320,000.00	6,245,000.00	8,565,000.00
5/1/2021		2,221,875.00	2,221,875.00	
11/1/2021	4,120,000	2,221,875.00	6,341,875.00	8,563,750.00
5/1/2022		2,118,875.00	2,118,875.00	
11/1/2022	4,325,000	2,118,875.00	6,443,875.00	8,562,750.00
5/1/2023		2,010,750.00	2,010,750.00	
11/1/2023	4,540,000	2,010,750.00	6,550,750.00	8,561,500.00
5/1/2024		1,897,250.00	1,897,250.00	
11/1/2024	4,770,000	1,897,250.00	6,667,250.00	8,564,500.00
5/1/2025		1,778,000.00	1,778,000.00	
11/1/2025	5,005,000	1,778,000.00	6,783,000.00	8,561,000.00
5/1/2026		1,652,875.00	1,652,875.00	
11/1/2026	5,255,000	1,652,875.00	6,907,875.00	8,560,750.00
5/1/2027		1,521,500.00	1,521,500.00	
11/1/2027	5,520,000	1,521,500.00	7,041,500.00	8,563,000.00
5/1/2028		1,383,500.00	1,383,500.00	
11/1/2028	5,795,000	1,383,500.00	7,178,500.00	8,562,000.00
5/1/2029		1,238,625.00	1,238,625.00	
11/1/2029	6,085,000	1,238,625.00	7,323,625.00	8,562,250.00
5/1/2030		1,086,500.00	1,086,500.00	
11/1/2030	6,390,000	1,086,500.00	7,476,500.00	8,563,000.00
5/1/2031		926,750.00	926,750.00	
11/1/2031	6,710,000	926,750.00	7,636,750.00	8,563,500.00
5/1/2032		759,000.00	759,000.00	
11/1/2032	7,045,000	759,000.00	7,804,000.00	8,563,000.00
5/1/2033		582,875.00	582,875.00	
11/1/2033	7,395,000	582,875.00	7,977,875.00	8,560,750.00
5/1/2034		398,000.00	398,000.00	
11/1/2034	7,765,000	398,000.00	8,163,000.00	8,561,000.00
5/1/2035		203,875.00	203,875.00	
11/1/2035	8,155,000	203,875.00	8,358,875.00	8,562,750.00
	107,925,000.00	70,789,712.50	178,714,712.50	178,714,712.50

Appendix A - Debt Service Schedules - Continued

2014 Safe Drinking Water Loan				
Date	Principal	Interest	Total	Annual
11/1/2014	-	-	-	-
5/1/2015	-	52,197.05	52,197.05	
11/1/2015	-	79,634.36	79,634.36	131,831.41
5/1/2016	464,762.14	101,763.40	566,525.54	
11/1/2016	-	96,982.56	96,982.56	663,508.10
5/1/2017	473,708.81	96,982.57	570,691.38	
11/1/2017	-	92,423.12	92,423.12	663,114.50
5/1/2018	482,827.71	92,423.11	575,250.82	
11/1/2018	-	87,775.90	87,775.90	663,026.72
5/1/2019	492,122.14	87,775.90	579,898.04	
11/1/2019	-	83,039.22	83,039.22	662,937.26
5/1/2020	501,595.49	83,039.23	584,634.72	
11/1/2020	-	78,211.37	78,211.37	662,846.09
5/1/2021	511,251.21	78,211.37	589,462.58	
11/1/2021	-	73,290.58	73,290.58	662,753.16
5/1/2022	521,092.79	73,290.57	594,383.36	
11/1/2022	-	68,275.06	68,275.06	662,658.42
5/1/2023	531,123.83	68,275.05	599,398.88	
11/1/2023	-	63,162.99	63,162.99	662,561.87
5/1/2024	541,347.96	63,162.99	604,510.95	
11/1/2024	-	57,952.52	57,952.52	662,463.47
5/1/2025	551,768.91	57,952.51	609,721.42	
11/1/2025	-	52,641.74	52,641.74	662,363.16
5/1/2026	562,390.46	52,641.74	615,032.20	
11/1/2026	-	47,228.73	47,228.73	662,260.93
5/1/2027	573,216.48	47,228.73	620,445.21	
11/1/2027	-	41,711.52	41,711.52	662,156.73
5/1/2028	584,250.89	41,711.53	625,962.42	
11/1/2028	-	36,088.11	36,088.11	662,050.53
5/1/2029	595,497.72	36,088.11	631,585.83	
11/1/2029	-	30,356.44	30,356.44	661,942.27
5/1/2030	606,961.06	30,356.45	637,317.51	
11/1/2030	-	24,514.44	24,514.44	661,831.95
5/1/2031	618,645.05	24,514.45	643,159.50	
11/1/2031	-	18,559.98	18,559.98	661,719.48
5/1/2032	630,553.97	18,559.99	649,113.96	
11/1/2032	-	12,490.90	12,490.90	661,604.86
5/1/2033	642,692.14	12,490.90	655,183.04	
11/1/2033	-	6,304.99	6,304.99	661,488.03
5/1/2034	655,063.96	6,304.99	661,368.95	
11/1/2034			-	661,368.95
5/1/2035			-	
11/1/2035			-	
	10,540,872.72	2,175,615.17	12,716,487.89	12,716,487.89

Appendix A: Debt Service Schedules - Continued

Consolidated Debt Service				
Central Brown County Water Authority				
Date	Principal	Interest	Total	Annual
11/1/2014	1,000,000.00	1,032,062.50	2,032,062.50	2,032,062.50
5/1/2015	-	2,696,072.05	2,696,072.05	
11/1/2015	1,205,000.00	2,723,509.36	3,928,509.36	6,624,581.41
5/1/2016	464,762.14	2,733,588.40	3,198,350.54	
11/1/2016	2,235,000.00	2,728,807.56	4,963,807.56	8,162,158.10
5/1/2017	473,708.81	2,684,107.57	3,157,816.38	
11/1/2017	3,390,000.00	2,679,548.12	6,069,548.12	9,227,364.50
5/1/2018	482,827.71	2,594,798.11	3,077,625.82	
11/1/2018	3,560,000.00	2,590,150.90	6,150,150.90	9,227,776.72
5/1/2019	492,122.14	2,501,150.90	2,993,273.04	
11/1/2019	3,735,000.00	2,496,414.22	6,231,414.22	9,224,687.26
5/1/2020	501,595.49	2,403,039.23	2,904,634.72	
11/1/2020	3,925,000.00	2,398,211.37	6,323,211.37	9,227,846.09
5/1/2021	511,251.21	2,300,086.37	2,811,337.58	
11/1/2021	4,120,000.00	2,295,165.58	6,415,165.58	9,226,503.16
5/1/2022	521,092.79	2,192,165.57	2,713,258.36	
11/1/2022	4,325,000.00	2,187,150.06	6,512,150.06	9,225,408.42
5/1/2023	531,123.83	2,079,025.05	2,610,148.88	
11/1/2023	4,540,000.00	2,073,912.99	6,613,912.99	9,224,061.87
5/1/2024	541,347.96	1,960,412.99	2,501,760.95	
11/1/2024	4,770,000.00	1,955,202.52	6,725,202.52	9,226,963.47
5/1/2025	551,768.91	1,835,952.51	2,387,721.42	
11/1/2025	5,005,000.00	1,830,641.74	6,835,641.74	9,223,363.16
5/1/2026	562,390.46	1,705,516.74	2,267,907.20	
11/1/2026	5,255,000.00	1,700,103.73	6,955,103.73	9,223,010.93
5/1/2027	573,216.48	1,568,728.73	2,141,945.21	
11/1/2027	5,520,000.00	1,563,211.52	7,083,211.52	9,225,156.73
5/1/2028	584,250.89	1,425,211.53	2,009,462.42	
11/1/2028	5,795,000.00	1,419,588.11	7,214,588.11	9,224,050.53
5/1/2029	595,497.72	1,274,713.11	1,870,210.83	
11/1/2029	6,085,000.00	1,268,981.44	7,353,981.44	9,224,192.27
5/1/2030	606,961.06	1,116,856.45	1,723,817.51	
11/1/2030	6,390,000.00	1,111,014.44	7,501,014.44	9,224,831.95
5/1/2031	618,645.05	951,264.45	1,569,909.50	
11/1/2031	6,710,000.00	945,309.98	7,655,309.98	9,225,219.48
5/1/2032	630,553.97	777,559.99	1,408,113.96	
11/1/2032	7,045,000.00	771,490.90	7,816,490.90	9,224,604.86
5/1/2033	642,692.14	595,365.90	1,238,058.04	
11/1/2033	7,395,000.00	589,179.99	7,984,179.99	9,222,238.03
5/1/2034	655,063.96	404,304.99	1,059,368.95	
11/1/2034	7,765,000.00	398,000.00	8,163,000.00	9,222,368.95
5/1/2035	-	203,875.00	203,875.00	
11/1/2035	8,155,000.00	203,875.00	8,358,875.00	8,562,750.00
	118,465,872.72	72,965,327.67	191,431,200.39	191,431,200.39

Appendix B: 2017-2026 Capital Improvement Program

Central Brown County Water Authority 2018-2027 Capital Improvement Program										
Project Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Engineering Services	100,000									
By Pass at Howard Booster Station	100,000									
Howard Booster Pump Station										250,000
MPU HVAC Modifications *	50,000									
VFD at MPU*	225,000									
MPU Software Reprogramming	30,000									
MPU Replacement Equipment*	100,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
Unanticipated Capital	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total	655,000	225,000	225,000	225,000	225,000	225,000	225,000	225,000	225,000	475,000
* subject to negotiations with MPU and dependent on available reserves										

Central Brown County Water Authority
 3100 Eaton Road
 Bellevue, WI 54311
 920-884-1077 ext 5
 manager@cbcwa.com

Appendix C – 2018 Draft Budget

Central Brown County Water Authority				
2018 Budget Projections				
	2016	2017		2018
	Actual	Budget	thru 6/30	Budget
Income				
44190 Interest Income	(31,331)	40,000	48,451	75,000
44300 Water Supply Capacity Charges	111,304	90,000	54,328	95,000
44663 Security Fund Payments		116,685	48,615	
44665 Automated Meter Charges		57,304		60,000
44660 User Fee Revenues				
44661 Fixed Costs	8,487,600	9,337,365	3,888,040	9,412,777
44662 Operation Costs	2,932,080	2,878,117	1,195,520	2,860,742
Subtotal 44660 User Fee Revenues	11,419,680	12,215,482	5,083,560	12,273,519
Total Income	11,499,653	12,519,471	5,234,954	12,503,519

Central Brown County Water Authority
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Appendix C – 2018 Draft Budget – Continued

Expenses				
56000 Source of Supply Expenses				
56020 Purchased Water	1,542,429	1,600,000	599,535	1,650,000
56030 Pass Thru - MPU	591,971	750,000	223,922	700,000
56600 Operational Expenses				
56601 Utilities	85,185	120,000	29,533	100,000
56602 Chemicals	8,222	8,000	6,355	12,000
56603 Fuel	124	500	1,058	2,500
56630 Meter Expense	2,000	5,000	600	5,000
56631 Automated Meter Expense	-	57,304	57,304	60,000
56645 Contract o&M				
56650 Miscellaneous Expenses	23,000			20,000
Total 56600 Operational Expenses	2,252,931	2,540,804	918,307	2,549,500
56700 Transmission & Distribution				
56701 Facilities		7,500	1,500	7,500
56702 Lines	6,328	15,000		7,500
56703 Fiber	8,250	15,000	15,750	17,500
56704 Control System	480	7,500	240	7,500
56705 Permits		1,000		500
56710 Supervision & Engineering				
56720 Structures & Improvements		5,000		5,000
56730 Locates	214			
56731 Locates Digger's Hotline	2,228	4,000	2,490	6,500
56732 Locates-MPU		500		2,500
56733 Locates-Other				
Total 56700 Transmission & Distribution	17,500	55,500	19,980	54,500

Appendix C – 2018 Draft Budget - Continued

59200 Admin & General				
59201 Bank Service Charges	363	2,500		500
59202 Office Supplies	1,296	1,500	828	1,750
59203 Postage	94	300		200
59204 Print/Copy/Reproduce		250		250
59205 Travel/Meals/Mileage	136	1,500	137	1,500
59206 Dues and Subscriptions	1,668	2,500	1,333	2,500
59207 Equipment	1,595	750	8,430	1,500
59208 Communication services				
59209 Telephone and Fax				
59210 Internet Expense	1,000	2,500	190	2,500
59212 Conferences & Training	235	2,500		2,500
59213 Advertising/Promotional	4,920	25,000		25,000
Subtotal General Admin	11,307	39,300	10,918	38,200
59230 Outside Services Employed				
59231 O/S Employed - Other	3,315	10,000	983	5,000
59232 Management Services		10,000		10,000
59233 Audit Services	17,814	18,000	11,538	20,000
59234 Accounting/ Financial Services	15,020	20,000	11,653	15,000
59271 Transcription Services	1,711	2,500	854	2,500
59272 Public Communications	19,983	10,000	8,248	15,000
59273 Contract Engineering	67,937	75,000	25,476	100,000
59275 Information Technology Support		2,500		2,500
Subtotal Non-Legal Services	125,780	148,000	58,752	170,000
59241 Legal Services				
59242 Legal - Litigation				
59243 Legal-General	34,635	40,000	9,731	30,000
59244 Litigation Support				
59245 Lobbying Activities				
59246 Special Projects				
Subtotal 59241 Legal Services	34,635	40,000	9,731	30,000

Appendix C – 2018 Draft Budget – Continued

59250 Insurance				
59251 Liability	13,853	14,200	19,382	20,500
59252 Auto	554	600	554	600
59253 Crime insurance	673	700	1,346	1,400
59255 Property Insurance	5,419	11,000	9,980	11,000
59256 Public Officials		6,100		
59257 WC Insurance	470	550	464	550
Subtotal 59250 Insurance	20,969	33,150	31,726	34,050
59260 Admin & General Salaries & Benefits				
59261 Wage Expense	91,475	94,000	46,982	98,000
59262 FICA/Med Match Expense	6,998	7,300	3,594	7,600
59264 Pension Expense	4,406	7,400	3,195	4,850
Federal Unemployment		42	42	42
Subtotal 59260	102,879	108,742	53,813	110,492
59300 Misc. General Expenses				
59301 Taxes-Property	99	125		
59310 Rents	8,490	9,800	6,378	9,000
Total 59300 Misc. General Expenses	8,589	9,925	6,378	9,000
Subtotal - Operating Expenses	2,574,590	2,975,421	1,109,605	2,995,742

Appendix C – 2018 Draft Budget – Continued

Debt Service				
Bond Payment	4,042,828	3,863,709	473,709	4,042,828
54270 Interest Expense	5,445,902	5,363,656	2,684,108	5,184,949
Subtotal	9,488,730	9,227,365	3,157,817	9,227,777
Subtotal	12,063,320	12,202,786	4,267,422	12,223,519
Capital Expenditures and non-coverage liabilities				
Contribution to Reserves				
Transfer to Security Fund		116,685		
50000 Acquisition of Capital Assets		400,000		655,000
53903 Refund to Members Expense	334,360	1,136,318	1,136,318	936,739
Subtotal	334,360	1,653,003	1,136,318	1,591,739
Total Use of Funds	12,397,680	13,855,788	5,403,740	13,815,258
Net Income	(334,360)	(1,336,318)	(168,786)	(1,311,739)
Transfer from Reserves		1,336,318	1,336,318	1,311,739
Net Income after transfer	(334,360)	0	1,167,532	0

Appendix D - Rate Stabilization Schedule

Estimated Water Rate and Rate Stabilization Contributions 2016-2021														
		Operations		Total		Maximum		Rate Stabilization				Fixed		
		Assume 2%		Budget		Rate Impact		Annual		Cumulative		Fixed Cost		% increase
		Inflation rate		Rates Only		3.0%		Contribution		total		after Rebate		without rebate
2015 Rate	\$	3.02	\$ 1.16	\$ 4.18										
2016 revenue	\$	8,478,323	\$ 2,929,850	\$ 11,408,173										
2016 Rate	\$	3.30	\$ 1.14	\$ 4.44		\$ 4.31	\$ 322,660	\$ 322,660	\$ 8,155,663	\$ 3.29				6.13%
2017 Revenue	\$	9,337,365	\$ 2,878,117	\$ 12,215,482		\$ -								
2017 Rate	\$	3.76	\$ 1.16	\$ 4.92		\$ 4.43	\$ 1,216,180	\$ 1,538,840	\$ 8,121,185	\$ 3.27				14.28%
2018 Revenue	\$	9,412,777	\$ 2,860,742	\$ 12,273,519		\$ -								
2018 Rate	\$	3.79	\$ 1.15	\$ 4.94		\$ 4.57	\$ 918,340	\$ 2,457,180	\$ 8,494,437	\$ 3.42				11.40%
2019 Revenue	\$	9,355,214	\$ 2,917,957	\$ 12,273,171		\$ -								
2019 rate	\$	3.75	\$ 1.18	\$ 4.93		\$ 4.70	\$ 570,860	\$ 3,028,040	\$ 8,784,354	\$ 3.54				7.93%
2020 revenue	\$	9,357,622	\$ 2,976,316	\$ 12,333,938		\$ -								
2020 Rate	\$	3.75	\$ 1.20	\$ 4.95		\$ 4.85	\$ 248,200	\$ 3,276,240	\$ 9,109,422	\$ 3.67				5.22%
2021 Revenue	\$	9,356,321	\$ 3,035,842	\$ 12,392,163										
2021 rate	\$	3.75	\$ 1.22	\$ 4.97		\$ 4.99	\$ -	\$ 3,276,240	\$ 9,356,321	\$ 3.75				2.56%