Village of Weston, Wisconsin
MEETING NOTICE

Meeting of:	PROPERTY & INFRASTRUCTURE COMMITTEE
Members:	Ziegler {c}, Jensen, Ostrowski, Porlier
Date/Time:	Monday, April 4th @ 4:30 P.M.
Location:	Weston Municipal Center (5500 Schofield Ave) – Board Room
Agenda:	The agenda packet will be emailed out 3 days prior to the meeting, and also posted on the Village website at www.westonwi.gov.
Attendance:	Committee members, please indicate if you will, or will not be attending so we may determine in advance if there will be a quorum.
Questions:	Donna Van Swol, Utility Clerk 715-359-2876 dvanswol@westonwi.gov

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This notice was emailed to local media outlets (Print, TV, and Radio) on 3/29/2016.

A quorum of members from other Village governmental bodies (boards, commissions, and committees) may attend the above noticed meeting in order to gather information. No actions to be taken by any other board, commission, or committee of the Village, aside from the Property & Infrastructure Committee. Should a quorum be other government bodies be present, this would constitute a meeting pursuant to State ex rel. Badke v. Greendale Village Bd., 173 Wis.2d 553,494 N.W.2d 408 (1993).

Wisconsin State Statutes require all agendas for Committee, Commission, or Board meetings be posted in final form, 24 hours prior to the meeting. Any posted agenda is subject to change up until 24 hours prior to the date and time of the meeting.

Any person who has a qualifying disability as defined by the Americans with Disabilities Act requires that meeting or material to be in accessible location or format must contact the Weston Municipal Center, by 12 noon the Friday prior to the meeting so any necessary arrangements can be made to accommodate each request.

It's Right Here.

Village of Weston, Wisconsin

OFFICIAL MEETING AGENDA OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

The Regular meeting of the Village of Weston Property & Infrastructure Committee, composed of five (5) members, will convene at the Weston Municipal Center, Board Room, 5500 Schofield Ave., Weston, on **Monday, April 4, 2016, at 4:30 p.m.** to consider the following matters:

A. Opening of Session.
- **1.** Meeting called to order by Chairman Ziegler at 4:30 p.m.
- **2.** Clerk will take attendance and roll call.
- **3.** Request for silencing of cellphones and other electronic devices.
- **4.** Acknowledgment of visitors if any.

B. Comments from the public on matters pertaining to committee business and oversight.

C. Presentation.

D. Consent Items for Discussion/Action
- **5.** Approval of previous meeting minutes from 3/07/2016.

E. Business Items for consideration, discussion, and action.
- **6.** 2015 MS4 Report.
- **7.** LED Street Lighting Award.
- **8.** 2016 CORP Amendment.
- **9.** Sewer Televising Camera Purchase.
- **10.** Bid Results for Mesker/Colleen and Ross Avenue Lift Station Replacements and Recommendation for Award of Contract(s).
- **11.** Condition of Jones Street.
- **12.** Snow & Ice Policy.
- **13.** Brush & Leaf Policy.

F. Reports.
- **14.** Deputy Director, Public Works.
- **15.** Director of Public Works and Utilities.
- **16.** Administrator.

G. Remarks from Committee; discuss items to be included for the next Property & Infrastructure Committee agenda.

H. Set next meeting date for **Monday, May 2nd, 2016**.

I. Announcements.

J. Adjourn.

WITNESS: My signature this 1st day of April, 2016.

Donna Van Swol
Utility Clerk

This notice was posted at the Municipal Center, and on the Village's website at www.westonwi.gov, and was emailed to local media outlets (Print, TV, and Radio) on 4/01/2016. A quorum of members from other Village governmental bodies (boards, commissions, and committees) may attend the above noticed meeting in order to gather information. No actions to be taken by any other board, commission, or committee of the Village, aside from the Property & Infrastructure Committee. Should a quorum of other government bodies be present, this would constitute a meeting pursuant to State ex rel. Badke v. Greendale Village Bd., 173 Wis.2d 553,494 N.W.2d 408 (1993). Wisconsin State Statutes require all agendas for Committee, Commission, or Board meetings be posted in final form, 24 hours prior to the meeting. Any posted agenda is subject to change up until 24 hours prior to the date and time of the meeting. Any person who has a qualifying disability as defined by the Americans with Disabilities Act requires that meeting or material to be in accessible location or format must contact the Weston Municipal Center at 715-359-6114, by 2pm the Friday prior to the meeting so any necessary arrangements can be made to accommodate each request.

Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – D.5.

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Village of Weston, Wisconsin
OFFICIAL MEETING AGENDA OF THE PROPERTY & INFRASTRUCTURE COMMITTEE
Monday, March 7, 2016, at 4:30 p.m.

A. Opening of Session.

1. **Meeting called to order by Acting Chairman Porlier at 4:30 p.m.**
2. **Clerk will take attendance and roll call.**

Roll call indicated 3 Property & Infrastructure Members present.

Member	Present
Ziegler, Jon	No
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	No
Porlier, Mark	Yes

Village staff present were DPW Keith Donner, Michael Wodalski, and Donna Van Swol. Trustee Loren White was present.

3. **Request for silencing of cellphones and other electronic devices.**
4. **Acknowledgment of visitors if any.**

B. Comments from the Public on Matters Pertaining to Committee Business. None.

C. Presentation. None

D. Consent Items for Discussion/Action.

5. **Approval of previous meeting minutes from 2/01/2016.**

M/S/P Jensen/Adams: to approve the minutes from the meeting of February 1, 2016 as presented.

Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	-
Porlier, Mark	Yes

6. **Water/Sewer Permit LCON-2-16-6518 and LCON-2-16-6526.**

M/S/P Adams/Jensen: to approve water/sewer permit LCON-2-16-6518 and LCON-2-16-6526.

Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes

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Ostrowski, Kevin	-
Porlier, Mark	Yes

E. Business Items for consideration, discussion, and action.

7. **Mini Excavator Purchase.** Wodalski reported that the purchase of a mini excavator was included in the 2016 Capital Equipment Plan. In the past this was a piece of equipment we rented. Last year between the streets and utilities we spent about $8,000 in rental fees. It is getting more difficult to rent this equipment and our usage has gone up. The week of February 15, staff tried out two pieces of equipment a Bobcat and a CAT. Staff preferred the Bobcat from Swiderski Equipment. The Bobcat had better power, stability, and it was smoother to operate. The recommendation is to have street, stormwater, water, and sewer funds each pay 1/4 of the financing over the next 5 years. The first payment would be due in 2017.

Dealer / Brand	Total Price
Swiderski Equipment / Bobcat	$61,392.00
Fabick / CAT	$62,300.00

M/S/P Adams/Porlier: to recommend to the Board of Trustees to purchase the mini excavator from Swiderski Equipment at a cost of $61,392.00 to be financed by the streets, stormwater, water, and sewer funds over the next five years.

Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	-
Porlier, Mark	Yes

8. **Summer Street Maintenance Plan.** Wodalski reported every spring we try to re-evaluate our streets condition for maintenance needs. The surface patching on Weston Avenue between Alderson Street and Birch Street is starting to pop loose and break apart. In 2012 Rothschild had American Asphalt place a 3/4-inch ultrathin overlay with bonding fibers on their side of Weston Avenue. The overlay that Rothschild had put on has held up fairly well. We received an estimate for Weston's portion of Weston Avenue at a cost of $22,000. We are also looking at applying an overlay to Callon Avenue. Weston Avenue has a PASER rating of 3 and Callon Avenue has a rating of 3 – 4. Both of these streets are posted at 35 m.p.h. We have also planned a joint micro-surfacing project with Rothschild on Volkman Street. Schofield Avenue will get some joint maintenance where we will be receiving some local road improvement funds. Wodalski briefly reviewed the chipseal and other projects.

M/S/P Porlier/Jensen: to acknowledge the summer street maintenance plan.

Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	-
Porlier, Mark	Yes

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9. **Multi-Use Path Connection to Rothschild Discussion.** Wodalski reported that Rothschild is looking at applying for a DNR stewardship grant to take the multi-use path from Lili Lane over the highway to Heuss Avenue and back around Shopko to get to the intersection of STH 29 ramp and Business 51. Last fall we were contacted by the principal of DC Everest Junior High School inquiring about improvements for walking and biking to the junior high school. We were asked by the Village of Rothschild if we would like to piggyback on the DNR stewardship grant for the connection of the Volkman Street multi-use path. The grant deadline is May 1.

   M/S/P Adams/Jensen: to recommend to the Board of Trustees moving forward with Rothschild and applying for the DNR stewardship grant for the multi-use path.

   Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	-
Porlier, Mark	Yes

10. **Weston Avenue and Ryan Street Seasonal Posting.** Donner reported staff is recommending to suspend seasonal road limits on Weston Avenue from Ryan Street to Zinser Street and on Ryan Street from Weston Avenue to Shorey Avenue. From 2009 – 2011 these sections of road were not posted for seasonal weight limits. During 2012 – 2015 seasonal weight restrictions were placed on these areas causing objections by property owners (Tito, Inc., Gary Guerndt, etc.). Last year the village retained CWE to perform testing and boring analysis include these areas. The report indicated these sections of the pavement, underlying gravel, and fill are capable of accommodating truck traffic during all seasons. Donner further recommended the pavement condition be monitored for signs of stress which may cause us to again consider posting weight limits.

    M/S/P Jensen/Adams: to acknowledge suspending seasonal posting of Weston Avenue Ryan Street and monitor the condition of the pavement.

    Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	-
Porlier, Mark	Yes

11. **Construction Representative Agreement for Ridgeview Subdivision Connections MTS.** Donner reported the village agreed to make the street and utility connection between E. Everest Avenue and Ridgeview Subdivision. Marathon Technical Services (MTS) had completed the infrastructure plans. Staff recommends entering into a contract with MTS to take care of bidding for the public facilities portion and construction representative services for an estimated amount of $6,030.

    M/S/P Adams/Jensen: to recommend to the Board of Trustee to approve the construction representative agreement for Ridgeview Subdivision connections with Marathon Technical Services at an estimated cost of $6,030.

    Yes Vote: 3 No Vote: 0 Abstain: 0 Not Voting: 0 Result: Pass

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Member	Present
Ziegler, Jon	-
Adams, Neal	Yes
Jensen, John	Yes
Ostrowski, Kevin	-
Porlier, Mark	Yes

F. Reports.

12. Deputy Director, Public Works.

- Wodalski reported we received the LED light proposals and staff was disappointed in the proposals we received. We are extending the due date for the RFP's to Monday, March 14. Wodalski will work with the vendors so they submit a complete RFP. Grant funds need to be spent by June 30.
- Continue to do work load needs for the services division (streets/utilities/parks). This will be an ongoing process.
- Creating a street maintenance plan.
- Seventh snow plow truck arrived.
- Sewer camera specifications are out. Wodalski and Dave Krause met with two vendors.
- Continue to work on brush and leaf pick up routes.
- In a discussion today with Fleet Foreman Behnke the idea to purchase a future snow plow truck "swap loader" was brought up. This equipment accommodated changing to different boxes (V-box, leaf unit, flat bed, etc.) on the same truck chassis depending on the season.

13. Director, Public Works and Utilities.

- Donner reported we had a sewer back up on Highland Avenue on February 27. There was a build-up of disposable wipes in a manhole downstream of two homes. This information will be forwarded to our insurance provider and the adjuster will review whether or not there was negligence by the village.
- Working with JSD Professional Services regarding the master plan study for the southeast quadrant of County Road X/STH 29.
- Continue to work on the main extension policy. A letter went out to Gary Guerndt who is proposing to acquire an 80-acre parcel off Gusman Road (currently in the Town of Weston). It is not near existing village infrastructure. Wodalski worked on an estimate for two different routes to service the property. One route would come from the existing Edgewood Estates Subdivision and an extension down Gusman Road. The other route would come from Fieldcrest Subdivision down Callon Avenue, to Willard Lane, to Kostuck Lane, crossing the river to this development. Either of the routes would require a lift station. The existing water main extension policy on file with the Public Service Commission addresses the municipality either requiring the developer to extend those facilities off site or the village could consider financing the project and special assessing the portions off site. The estimate provided to Guerndt did not discuss cost share or financing of other site improvements.
- Continue to work on the water rate case.
- The lift station project is out for bids.
- Continue to work on Request for Proposals for automatic meter reading system with advanced metering infrastructure. This will allow reading the meters with fixed based hardware and software system. If we implement this project, we would likely go to monthly billing. We received a cost estimate of $1.7M from one of the vendors to update the system with radio transmitters and meter replacements. We have a significant fund balance that we could potentially be used to help pay for this project. Some of the money could also come out of rates. We have given this information to Ehlers, our consultant preparing the Water Utility rate case for the Public Service Commission.
- Donner thanked Neal Adams for his years of serving on the Property & Infrastructure Committee.

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14. Report from Administrator. None

G. Communications and Recommendations from Committee Members. None.

H. Set next meeting date and discuss items for next agenda - Monday, April 4, 2016 @ 4:30 p.m.

I. Adjourn.

Porlier adjourned the meeting at 5:45 p.m.

Donna Van Swol, Utility Clerk

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.6.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**MICHAEL WODALSKI; DEPUTY DIRECTOR OF PUBLIC WORKS**
ITEM DESCRIPTION:	**ACKNOWLEDGE ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) REPORT**
DATE/MTG:	**PROPERTY & INFRASTRUCTURE COMMITTEE; MONDAY, APRIL 4, 2016** **VILLAGE BOARD OF TRUSTEES MEETING; MONDAY, APRIL 4, 2016**
POLICY QUESTION:	Should the Property and Infrastructure Committee/Village Board acknowledge the submittal of the Village's annual Municipal Separate Storm Sewer System (MS4) report?
RECOMMENDATION TO:	I make a motion to acknowledge the submittal of the annual Municipal Separate Storm Sewer System (MS4) report.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Reports
☐ Administrative Order	☐ Policy	☐ Resolution
☐ **Expenditure**	☐ Procedure	
	☐ Proclamation	

FISCAL IMPACT ANALYSIS:

☐ Budget Line Item:	Storm Water Utility Fund
☐ Budget Line Item:	
☐ Budgeted Expenditure:	
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☒ WI Administrative Code:	NR 216.07(8)
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW:

BACKGROUND:

Pursuant to Wis. Adm. Code NR 216.07(8) an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (DNR) by March 31 of each year. Attached is the Village of Weston's report for 2015 in compliance with the Administrative Code.

☐ Supplemental Briefer for Agenda Items under Consideration?

☒ Attachments

2015 Village of Weston MS4 Report

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Annual Report under MS4 General Permit No. WI-S050075-2

Form 3400-195 (R 12/15)

Due by March 31, 2016

Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (DNR) by March 31 of each year to report on activities for the previous calendar year. This form is being provided by the DNR for the user's convenience. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

This form is for reporting on activities undertaken in calendar year 2015.

Instructions: Complete each section of the form that follows. If additional space is needed to respond to a question, attach additional pages. Provide descriptions that explain the program actions taken to comply with the general permit. Complete and submit the annual report by March 31, 2016, to the appropriate address indicated on the last page of this form.

SECTION I. Municipal Information

Name of Municipality	Facility ID No. (FIN)
Village of Weston	31060

Mailing Address	City	State	ZIP Code
5500 Schofield Avenue	Weston	WI	54476

County(s) in which Municipality is located	Municipality Type: (select one)
Marathon	○ County ○ City ◉ Village ○ Town ○ Other (specify)

SECTION II. Municipal Contact Information

Name of Municipal Contact Person	Title
Michael Wodalski	Deputy Director of Public Works

Mailing Address (if different from above)	City	State	ZIP Code
		WI	

Email	Phone Number (include area code)	Fax Number (include area code)
mwodalski@westonwi.gov	(715) 359-6114	(715) 359-6117

SECTION III. Certification

I hereby certify that I am an authorized representative of the municipality covered under MS4 General Permit No. WI-S050075-2 for which this annual report is being submitted and that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Authorized Representative Printed Name	Authorized Representative Title
Michael Wodalski	Deputy Director of Public Works

Signature of Authorized Representative	Date
Michael Wodalski	3-29-16

Email	Phone Number (include area code)	Fax Number (include area code)
mwodalski@westonwi.gov	(715) 359-6114	(715) 359-6117

SECTION IV. General Information

a. Describe what efforts the municipality has undertaken to invite the municipal governing body, interest groups, and the general public to review and comment on the annual report.

The municipal governing body is continuously informed of the progress of major storm water activities and changes in mandated requirements and associated documents. Recently, talk has increased regarding the Wisconsin River TMDL study and this topic has been discussed at the committee and Village Board level.

The general public is informed by the posting of meeting agendas for both the Property and Infrastructure Committee and the Village Board at the Municipal Center and on the Village's website (www.westonwi.gov). Any supporting documents are available on the website for every scheduled meeting as well as past meeting minutes.

Also, the municipal annual permit is available for viewing at the Municipal Center and on the website. Pursuant to Section 1.11 of the general permit, all annual reports and all other records related to the permit are accessible by contacting the Wisconsin Department of Natural Resources regional storm water contact, Brad Johnson, at 715-359-4522.

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SECTION IV. General Information (continued)

b. Describe how elected and municipal officials and appropriate staff have been kept apprised of the municipal storm water discharge permit and its requirements.

As mentioned above, officials are informed of all permitted activities as we move through the time sensitive chronological general permit requirements. This topic was discussed at a January 5th meeting as the Village was renewing its Memorandum of Agreement with Marathon County for Stormwater Management through the North Central Wisconsin Stormwater Coalition. In addition, every year when the Village submits its MS4 permit, the permit is acknowledged by the Property & Infrastructure Committee as well as the Village Board.

Lead staff and operations staff are updated regularly throughout the year on any changes or modifications to storm water regulations. During non-winter months operations staff are updated on storm water requirements such as street sweeping, curb inlet cleaning, etc. which are scheduled into the daily activities of the staff.

c. Has the municipality prepared its own municipal-wide storm water management plan? (●) Yes ( ) No

If yes, title and date of storm water management plan:

The Village has completed 5 basin studies and has completed its SLAMM modeling report. The results of the SLAMM model indicates the Village meets and exceeds water quality requirements currently.

d. Has the municipality entered into a written agreement with another municipality or a contract with another entity to perform one or more of the conditions as provided under section 2.10 of the general permit? (●) Yes ( ) No

If yes, describe these cooperative efforts:

The Village is part of the North Central Wisconsin Stormwater Coalition which is made up of: Marathon County, Cities of Baraboo, Marshfield, Merrill, Mosinee, Schofield, Stevens Point, Wausau and Wisconsin Rapids, Villages of Kronenwetter, Rothschild and Weston, and the Town of Rib Mountain. These municipalities entered into a Memorandum of Agreement that identifies education and outreach responsibilities of the parties of the agreement in accomplishing the requirements of the MS4 permit.

e. Does the municipality have an internet website? (●) Yes ( ) No

If yes, provide web address:
www.westonwi.gov

If the municipality has an internet website, is there current information about or links provided to the MS4 general permit and/or the municipality's storm water management program? (●) Yes ( ) No

If yes, provide web address:
http://westonwi.gov/193/Stormwater-Utility
http://www.ncwrpc.org/NCWSC/

SECTION V. Permit Conditions

a. Minimum Control Measures: For each of the permit conditions listed below, provide a description of the implementation of each program element, the status of meeting measurable goals, and compliance with permit schedule in section 2.11 of the MS4 general permit. Provide an evaluation of program compliance with the general permit, the appropriateness of identified best management practices, and progress towards achieving identified measurable goals. Be specific in describing the actions that have been taken during the reporting year to implement each permit condition and whether measurable goals have been met, including any data collected to document a measurable goal. Also, explain the reasons for any variations from the compliance schedule in the MS4 general permit.

- Public Education and Outreach

  The Northcentral Wisconsin Stormwater Coalition (NCWSC) education and outreach plan was adopted in 2008. Please refer to the attached spreadsheet for a detailed summary of education and outreach activities for 2015.

- Public Involvement and Participation

  The NCWSC holds monthly meetings which are open to the public. Notice of these meetings are posted on the Marathon County online bulletin board and in the Wausau Daily Herald, City Pages, Marshfield News and Midwest Radio Group. Meeting minutes are posted on the Marathon County website and available for review at the Village of Weston Municipal Center.

- Illicit Discharge Detection and Elimination

  Illicit discharge monitoring was completed in early November 2015. No illicit discharges were detected. A full report is attached.

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SECTION V. Permit Conditions (continued)

- Construction Site Pollutant Control

  The Village of Weston updated its Construction Site Erosion Control Ordinance in 2014 to ensure that the Village's ordinance met the requirements of NR 151. As site plans are received for new or redevelopment projects these plans are reviewed to ensure compliance with all DNR and Village regulations. The Village's Building Inspector ensures that all non-DNR permitted activities (those properties less than 1 acre) adhere to the same requirements for construction site pollutant control.

- Post-Construction Storm Water Management

  The Village of Weston updated its Post Construction Storm Water Management Ordinance in 2014 to ensure that the Village's ordinance met the requirements of NR 151. Similarly, all site plans are reviewed to check that new and redevelopment projects meet the DNR requirements.

- Pollution Prevention

  The Village uses the results of the pollutant-loading analysis from our SLAMM model to determine appropriate pollution prevention practices. Several activities are occurring/on-going as we assumed in the model. Currently, street sweeping activities are completed during the spring to fall months. Additionally, this information has been input into the Village's SLAMM model. Reclaimed sand from winter operations is reused as part of the Village's recycled base course for Village Street Projects. This program was initiated in cooperation with WDNR in 2008.

  It is the Village's policy to mix its compost from the management of grass clippings and leaves with salvaged topsoil and reuse the material on capital improvement and Village maintenance projects. Currently, the Village's Parks Department is following the new fertilization regulation concerning pervious areas > 5 acres - including sampling and development of a plan/policy. The Village only fertilizes one such area >5 acres, however, further areas may be added in the future. An inlet cleaning and inspection program is underway where inlets with sumps will be cleaned on a 3-year cycle, unless conditions warrant more frequent cleaning.

b. Winter Road Management Activities:

Provide the name, title, and phone number for the individual(s) with overall responsibility for winter roadway maintenance.

Doug Behnke, Fleet Foreman, (715) 359-6114
Michael Wodalski, Deputy Director of Public Works, (715) 359-6114

Describe the types of products used for winter road management (e.g., deicing, pre-wetting, salting, etc.).

Salt, salt-brine (anti-icing and pre-wetting), and sand

Describe the type of equipment used to apply the products.

Single and tandem axle dump trucks with augers and spinners for salt and sand. Body mounted tanks for the salt brine which is applied at the spinner to pre-wet the salt.

One-ton truck with spray bar applies salt-brine as an anti-icing activity.

Report the amount of product used per month.

Salt Used: January = 300 tons, February = 180 tons, March = 117 tons, December = 320 tons
Salt Brine: January = 600 gallons, February = 300 gallons, March = 200 gallons, December = 500 gallons

Report the snow disposal locations, if snow is hauled away.

In the early months of 2015, (January - March) snow was stored at the Village's yard waste site (8200 Ryan St.) as well as at Kennedy Park (5815 Alta Verde St).

Snow from cul-de-sacs was stored at 8200 Ryan St in December of 2015

Describe any anti-icing, equipment calibration, and salt reduction strategies considered.

The Village started utilizing an anti-icing technique in December 2015. Additionally, 3 of the 6 salt trucks have been calibrated to properly distribute salt and brine based on the speed of the truck. In addition, the Village has focused on responding earlier to snow events, which allows the plows to scrape the streets prior to snow pack forming, which reduces the amount of salt necessary to melt the ice/snow.

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SECTION V. Permit Conditions (continued)

Describe any other additional measurable data or information that the permittee used to evaluate its winter road management activities.

c. Municipal facility(s):

Provide an inventory of municipally owned or operated structural storm water management facility(s), include: Location of each facility and contact information for the individual(s) with overall responsibility for each facility.

Ponds - See attached Storm Sewer System Map for location of each pond that the Village of Weston maintains. In addition to the stormwater ponds, the Village has a stormceptor located at outfall ECR-12 on the attached map.

Describe the housekeeping activities and best management practices installed to reduce or eliminate storm water contamination.

Ponds are mowed and checked for influent during summer months. As sediment build-up occurs, ponds are cleaned accordingly.
Street sweeping is accomplished with a vacuum sweeper and catch basins are cleaned as time permits.

Discuss recommendations for improvements to current storm water management practices at the facility(s) and a timeline for installation and/or implementation of these recommendations.

The Village is working on creating a more comprehensive inlet cleaning program. Program should be fully effective by 2018.

Describe the municipal facility(s) employee training on storm water pollution prevention provided.

Video Instructions, Tool Box Discussions

Describe the spill prevention and response procedures in place at the municipal facility(s).

In the event of a spill - the Public Works Department defers to the Fire Department and/or a local contractor (REI) to assess the situation and best remediate the situation.

d. Storm Water Quality Management: Has the municipality completed a pollutant-loading analysis to assess compliance with the 20% TSS reduction developed urban area performance standard? (●) Yes ( ) No

If yes, provide the following: Model used WinSLAM Version 9.3.3 Reduction (%) 49.48

If no, include a description of any actions the municipality has undertaken during 2015 to help achieve the 20% standard.

Has the municipality completed an evaluation of all municipal owned or operated structural flood control facilities to determine the feasibility of retrofitting to increase TSS removal? (●) Yes ( ) No

If yes, describe:

The Village's Pollutant Loading and BMP Analysis report includes a brief review of storm water detention basins throughout the Village. Of the total of 59 detention basins, 4 are contributing to overall TSS reduction. Twenty three (23) of the basins have no potential to provide TSS reduction due to location, size, design, or other factors. The remaining 32 basins may have potential to be modified to provide some incremental TSS reduction. However, estimated reduction is small and additional analysis is needed to determine feasibility and costs vs. benefits.

e. Best Management Practices Maintenance: Does the municipality have a maintenance program for installed storm water best management practices? (●) Yes ( ) No

If yes, describe the maintenance program and any maintenance activities that have occurred for best management practices in 2015. If available, attach any additional information on the maintenance program.

The program involves cleaning detention basins on a systematic process, cleaning out inlet sumps, street sweeping and leaf pick-up. A formal written program is in the developmental phase, but has not been officially adopted yet. The Village has begun implementing a new asset management software that will help keep track of this information as well as schedule maintenance work more accurately.

f. Storm Sewer System Map: Describe any changes or updates to the storm sewer system map made in the reporting year. Provide an updated map if any changes occurred during the reporting year.

There were not any changes made in 2015.

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SECTION V. Permit Conditions (continued)

SECTION VI. Fiscal Analysis

a. Provide a fiscal analysis that includes the annual expenditures for 2015, and the budget for 2015 and 2016. A table to document fiscal information is provided on page 8.

See attached table.

b. What financing/fiscal strategy has the municipality implemented to finance the requirements of the general permit?

☒ Storm water utility ☒ General fund ☐ Other _____

c. Are adequate revenues being generated to implement your storm water management program to meet the permit requirements? ◉ Yes ○ No

Please provide a brief summary of your financing/fiscal strategy and any additional information that will assist the Department in understanding how storm water management funds are being generated to implement and administer your storm water management program.

The Village of Weston Stormwater Utility has charged an annual ERU rate of $48/yr, since its creation in 2004. This rate has been adequate to date, but it has been determined it is not sufficient to complete capital improvement projects, pay down existing debt and partially fund depreciation of existing facilities for the long term. The Village is planning to increase the ERU rate from $48/yr to $50/yr during 2016 to make up for some of the shortfalls of the utility over recent years.

The Village has had to shift several activities out of the stormwater utility and into the general tax levy fund in order to have adequate funding for the stormwater utility, an example of this is the expense of street sweeping.

SECTION VII. Inspections and Enforcement Actions

Note: If an ordinance listed below has previously been submitted and has not been amended since that time, a copy does not need to be submitted again. If the ordinance was previously submitted, indicate such in the space provided.

a. As of the date of this annual report, has the municipality updated or revised its construction site pollutant control ordinance in accordance with subsection 2.4.1 of the general permit? ◉ Yes ○ No

If yes, attach copy or provide web link to ordinance:

http://westonwi.gov/documentcenter/view/66

b. As of the date of this annual report, has the municipality updated or revised its post-construction storm water management ordinance in accordance with subsection 2.5.1 of the general permit? ◉ Yes ○ No

If yes, attach copy or provide web link to ordinance: http://westonwi.gov/documentcenter/view/66

c. As of the date of this annual report, has the municipality updated or revised its illicit discharge detection and elimination ordinance in accordance with subsection 2.3.1 of the general permit? ◉ Yes ○ No

If yes, attach copy or provide web link to ordinance:

http://westonwi.gov/documentcenter/view/66

d. As of the date of this annual report, has the municipality adopted any other ordinances it has deemed necessary to implement a program under the general permit (e.g., pet waste ordinance, leaf management/yard waste ordinance, parking restrictions for street cleaning, etc.)? ○ Yes ◉ No

If yes, attach copy or provide web link to ordinance:

e. Provide a summary of available information on the number and nature of inspections and enforcement actions conducted during the reporting period to ensure compliance with the ordinances described in a. to d. above.

Enforcement:

All site plans submitted to the Village are reviewed for proper drainage design and erosion control. Single and two-family home sites (as well as multi-family with <1 acre of disturbance) receive a drainage review for elevations, swales and proper points for off site discharge. Also, all single family and two-family developments are required to submit an erosion control plan showing BMP's and their locations.

All platted subdivisions, site condominiums, commercial and industrial developments over 1 acre are required to submit a stormwater management plan (SWMP) including calculations and a maintenance plan. All developments

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SECTION VII. Inspections and Enforcement Actions (continued)

regardless of size, need to submit an erosion control plan, all which must meet Village and DNR codes. Site plans are not approved until all of the indicated criteria are met.

2015 Reviews: Single Family = 25; Duplex = 4; Multi-Family = 1; Commercial/Industrial = 10

Ordinances 86.321 (Post-Construction) and 86.411 (Erosion Control) provide for enforcement actions when non-compliance is observed.

Inspection:
The building inspector inspects all sites while on routine inspections in an effort to increase staff efficiency. Additional inspections occur after significant rain events to ensure erosion control measures are functioning properly and/or have not been compromised.

SECTION VIII. Water Quality Concerns

a. Does any part of the MS4 discharge to an outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? (A list of ORWs and ERWs may be found on the Department's Internet site at: http://dnr.wi.gov/topic/surfacewater/orwerw.html) ○ Yes ◉ No

If yes, list:

b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 33 USC § 1313(d)(1)(C)? (A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: http://dnr.wi.gov/water/impairedsearch.aspx?status=303d) ◉ Yes ○ No

If yes, complete the following:

- Impaired waterbody to which the MS4 discharges:

  Wisconsin River, through 2 storm sewer pipes which become part of the Village of Rothschild's system at the corporate boundary (Volkman St.)

- Description of actions municipality has taken to comply with section 1.5.2 of the MS4 general permit for discharges of pollutant (s) of concern to an impaired waterbody:

  These 2 outfalls serve a drainage basin which encompasses 1,270 acres (~25% of the Village's urbanized area) and discharge into the Village of Rothschild's storm system at Volkman St. and Heuss Ave, and at BUS 51 and Jelinek Ave, which then ultimately flow into the Wisconsin River. To date, the Village of Rothschild has not noted any illicit discharges and the Village of Weston has not noted any illicit discharges since monitoring began in 2010.

c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water.

SECTION IX. Proposed Program Changes

Describe any proposed changes to the storm water management program being contemplated by the municipality for 2016 and the schedule for implementing those changes. Proposed program changes must be consistent with the requirements of the general permit.

SECTION X. Other

Any other additional information the permittee would like to provide in the Annual Report regarding their storm water program?

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SECTION X. Other (continued)

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Fiscal Analysis Table. Complete the fiscal analysis table provided below.

Program Element	Annual Expenditure 2015	Budget 2015	Budget 2016	Source of Funds
Public Education and Outreach	1,500	1,000	1,500	
Public Involvement and Participation	150	433	433	
Illicit Discharge Detection and Elimination	75	150	150	
Construction Site Pollutant Control	0	0	0	
Post-Construction Storm Water Management	17,284	14,872	26,646	
Pollution Prevention	85,370.93	61,233	71,423	
Storm Water Quality Management (including pollutant-loading analysis)	0	0	0	
Storm Sewer System Map	0	0	0	
Other: Depreciation	365,880	370,000	373,000	
Other: Interest Expense	136,107	153,342	126,385	

NORTHERN REGION COUNTIES		
Ashland	Langlade	DNR Service Center
Barron	Lincoln	Attn: Storm Water Program
Bayfield	Oneida	5301 Rib Mountain Rd.
Burnett	Polk	Wausau, WI 54401
Douglas	Price	Phone: (715) 359-4522
Florence	Rusk	
Forest	Sawyer	
Iron	Taylor	
	Vilas	
	Washburn	

WEST CENTRAL REGION COUNTIES		
Adams	Marathon	DNR Service Center
Buffalo	Monroe	Attn: Storm Water Program
Chippewa	Pepin	5301 Rib Mountain Rd.
Clark	Pierce	Wausau, WI 54401
Crawford	Portage	Phone: (715) 359-4522
Dunn	St. Croix	
Eau Claire	Trempealeau	
Jackson	Vernon	
Juneau	Wood	
La Crosse		

NORTHEAST REGION COUNTIES		
Brown	Marquette	DNR Northeast Region
Calumet	Menominee	Attn: Storm Water Program
Door	Oconto	2984 Shawano Ave.
Fond du Lac	Outagamie	Green Bay, WI 54313
Green Lake	Shawano	Phone: (920) 662-5100
Kewaunee	Waupaca	
Manitowoc	Waushara	
Marinette	Winnebago	

SOUTH CENTRAL REGION COUNTIES		
Columbia	Jefferson	DNR South Central Region
Dane	LaFayette	Attn: Storm Water Program
Dodge	Richland	3911 Fish Hatchery Rd.
Grant	Rock	Fitchburg, WI 53711
Green	Sauk	Phone: (608) 275-3266
Iowa		

SOUTHEAST REGION COUNTIES		
Kenosha	Sheboygan	DNR Service Center
Milwaukee	Walworth	Attn: Storm Water Program
Ozaukee	Washington	141 NW Barstow Street,
Racine	Waukesha	Room 180
		Waukesha, WI 53188
		(262) 574-2100

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NORTH CENTRAL WI STORMWATER COALITION
OUTREACH AND EDUCATION PLAN ACTIVITIES COMPILATION
March 29, 2016

DATE	ACTIVITY	DESCRIPTION	EDUCATION & OUTREACH PLAN GOAL	AUDIENCE
02/19/15	Rain Garden Grant Awards	The North Central Wisconsin Stormwater Coalition awarded to reain garden grants: $1,000 to Prairie River Middle School located in Merrill, WI and $750 to the Village of Weston		Prairie River Middle school population and the Village of Weston residents.
04/16/15	Rubber Ducky Infommercial	Marcus Cedar Creek Theater, Rothschild and Baraboo - 8 weeks Campus Theater, Stevens Point, WI Rapids and Marshfield - 8 weeks		Wausau Metro Area / Central WI Residents
05/15/15	Wisconsin River Cleanup	Interactive Educational Presentation		Approx. 325 area youth
05/28/15	North Central Wisconsin Local Phosphorus Partnership Summit	NCWRCP, NCWSC and WIPPS hosted a summit to discuss how individuals and organizations can work together to address the phoshorus issue as it relates to the TMDL		Farmers, private individuals and local governments within the North Central Wisconsin Regional Planning Commission area of service
06/10/15	Rainbarrel Workshop -	Weston: Gave a presentation on storm water and the benefit of rain barrells. Had 11 participants.		Village of Weston Residents
all year	Regional education and outreach	NCWRPC website - 679 hits		North Central Wisconsin Regional Planning Commission area residents

Village of Weston
MS4 Illicit Discharge Survey
Dry Weather – Major Outfalls

2015

Summary

As part of the Village's General Permit to discharge under the Wisconsin Pollutant Discharge Elimination System (WPDES), the Village is required to implement and enforce a program to remove illicit connections and discharges to the Municipal Separate Storm Sewer System (MS4). To begin this program, initial field screening at all major outfalls during dry weather periods has to be conducted, which this report summarizes.

The Village's storm water system contains sixteen (16) major outfalls (discharge points). "Major" having one of the two following meanings: (1) Pipes with an inside diameter of 36 inches or more or equivalent conveyance which is associated with a drainage area of more than 50 acres; (2) Pipes with an inside diameter of 12 inches or more or equivalent conveyance which receives storm water runoff from land zoned for industrial activity with 2 or more acres of industrial activity, but not land zoned for industrial activity that does not have any industrial activity present.

A discharge flow was observed in five (5) of the outfalls during "dry weather" conditions. All of the water quality testing indicated there were no typical "illicit" discharges occurring at the time of the sampling.

Storm water from the Village drains to five water bodies. Northeast Weston drains to Big Sandy Creek, the south portion of the eastern extent of the Village drains to Bull Junior Creek, southern Weston drains to Cedar Creek, the north, western and central portions of the Village drain to the Eau Claire River, and the west central portion of the Village drains through the Village of Rothschild into the Wisconsin River.

Introduction

The Weston storm sewer system is a mix of older storm sewers and relatively new piping systems. The majority of the system falls into the 0-20 year range with replacements and updates being

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done yearly. Weston has been a fast growing municipality and as such, many of the utilities are updated regularly.

All together, the Weston systems collect and transport storm water from residential, commercial and industrial areas within the Village. Weston has two storm sewers that discharge into Rothschild en route to the Wisconsin River which are located on Jelinek Ave. and Huess Ave.

Inventory

The Village met with Brad Johnson of the Wisconsin Department of Natural Resources (WDNR) on September 25, 2011 to go over the major outfalls in the Village of Weston. It was agreed upon that past maps which have been sent to the WDNR did not correctly identify/classify the major outfalls, and as such there are now 16 major outfalls in the Village of Weston as shown on the attached map. The major outfalls that were listed previously included cross culverts and outfalls that fed into detention basins and were not direct flows into a water body. As such, the attached map has these previous outfalls listed as either exempt or shown correctly as a culvert.

From a study conducted in 2009, there are 75 drainage basins in the Village which are serviced by storm sewers. Some are as small as a single curb/gutter inlet and a single pipe discharging into an adjacent grassed swale, while others service an extensive area with many catch basins and pipe segments. These smaller basins all contribute to the major detention basins which are shown on the attached map.

As noted above, there are sixteen (16) major outfalls identified in the Village of Weston. Two (2) of these outfalls convey storm water to the Village of Rothschild at Heuss Ave. and Jelinek Ave.

One (1) outfall is only 12 in. and would not typically be considered a major outfall, but after discussions with Brad Johnson of WDNR this outfall was added, and is located just south of STH 29 at Birch St. One of the main reasons for this addition is that this outfall serves the Hospital area and drains directly into a wetland system.

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Table 1: Village of Weston Major Outfalls

Outfall Number	Pipe Size (in)	Receiving Body	Discharge Location	Basin Land Use
WR-1	54	Wisc. River	Heuss Ave. @ Rothschild/Weston Border	Residential, Institutional
WR-2	36	Wisc. River	Jelinek Ave. @ Rothschild/Weston Border	Residential, Institutional, Commercial
ECR-1	72	Eau Claire River	Northeast corner of Pleasant View Dr.	Residential, Commercial, Industrial
ECR-2	72	Eau Claire River	~1,000 ft. east of Camp Phillips Rd. at Eau Claire Ave.	Residential, Industrial, Institutional
ECR-3	60	Eau Claire River	North end of LeDuc St.	Residential, Industrial
ECR-4	42	Big Sandy Creek	West end of Cathy St.	Residential
ECR-5	36	Big Sandy Creek	West end of Alex St.	Residential
ECR-6	24	Eau Claire River	East end of Morning View St.	Residential
ECR-7	36	Eau Claire River	River Bend Rd., by N Apache Ln.	Residential
ECR-8	24	Eau Claire River	West end of Kiowa Ln.	Residential
ECR-9	36	Eau Claire River	Meridian Ave. extended on east side of Weston Dog Park	Industrial
ECR-10	24	Eau Claire River	West end of Lang Ln.	Residential
ECR-11	84	Eau Claire River	North end of Ryan St.	Residential, Industrial
ECR-12	48	Eau Claire River	Callon Ave. between Zinser St. and Dusk St.	Residential, Industrial
CC-1	12	Wisc. River	Birch St. at south side of STH 29	Commercial, Institutional
CC-2	54	Cedar Creek	SE corner of Meadow Rock Dr. and Camp Phillips Rd.	Commercial, Industrial

Dry Weather Flows

Dry weather flows were observed in the following five (5) Major Outfalls:

1. **WR-1**: This 54-inch pipe is located on Heuss Avenue and flows into the Village of Rothschild's system at Volkman Street. A constant dry weather flow over one-inch was observed. Sample was taken via manhole on Heuss Avenue. The area served is mainly between Birch St to the East, STH 29 to the South and Neupert Ave to the North. This area consists of primarily residential and institutional land users.

Picture 1: Pipe with an Arrow is the pipe that drains water from the Kennedy Park Stream down to Heuss Avenue. This pipe has a slightly lower invert than the other three pipes which flow down Jelinek Avenue. Sample was taken further downstream via a manhole on Heuss Avenue.

2. **WR-2**: This 42-inch pipe is located on Jelinek Avenue and flows into the Village of Rothschild's system at Business Highway 51. A constant dry weather flow over one-inch was observed. Sample was taken via a manhole at the corner of Jelinek Ave and Machmueller St. The area served is mainly between Birch St to the East, Everest Ave to the South and Neupert Ave to the North. This area consists of primarily residential and institutional land users. WR-1 and WR-2 are fed via the stream flowing through Kennedy Park between Alderson St. and Alta Verde St.

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Picture 2: WR-2 (Intersection of Machmueller St and Jelinek Ave looking West towards BUS 51.

3. **ECR-2**: This 72-inch outfall located approximately 1,000 ft. east of Camp Phillips Rd. at Eau Claire Ave. serves the north central part of the Village's storm water system. A constant dry weather flow over one-inch was observed. The area served is mainly between Ross Ave. and E. Everest Ave. from just west of Camp Phillips Rd. to Von Kanel St. This area consists of both residential and industrial customers, along with Weston Elementary School.

Picture 3: ECR-3 (~1,000 ft. east of Camp Phillips Rd. at Eau Claire Ave.)

4. **ECR-11**: This 84-inch outfall located at the northern most end of Ryan St. serves the southeastern part of the Village's storm water system. A dry weather flow of one-inch or less was observed. The area served is mainly between Schofield Ave. and STH 29 from Teagan Ln. to the Village's Business Park. This area consists of both residential and industrial customers.

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Picture 4: ECR-11 (North End of Ryan St)

5. **CC-1**: This 12-inch outfall located just south of STH 29 at Birch St. serves the northern part of the Village's storm water system around the hospital. A dry weather flow of about one-inch was observed. The area served is mainly Stone Ridge Dr., Ministry Parkway, Cranberry Blvd. and the Hospital. This area consists of commercial and institutional customers.

Picture 1: CC-1 (south of STH29 at Birch St.)

It should be noted that when the Village of Rothschild conducted their illicit discharge survey in the Fall of 2009 there was a dry weather flow of less than one-inch observed at the Heuss Ave. pipe where the Village of Weston meets the Village of Rothschild (no illicit discharges were detected).

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Water Quality

Dry weather flows were observed in five (5) of the major outfalls. Observations were made at least three days after the most recent rainfall event. Water quality tests were completed utilizing Hach Storm Water Test Kit Cat. No. 24813-00. No substances were detected. Results are presented in Table 2 below.

Table 2: Field Test Results

OUTFALL	TEMP °F	pH	CHLORINE	COPPER	PHENOLS	DETERG
WR-1	48	7.9	0.0	0 / 0 = 0	0.0	0.0
WR-2	47	8.3	0.0	0 / 0 = 0	0.0	0.0
ECR-2	48	8.4	0.0	0 / 0 = 0	0.0	0.0
ECR-11	46	8.3	0.0	0 / 0 = 0	0.0	0.0
CC-1	47	7.8	0.0	0 / 0 = 0	0.0	0.0

Outfalls were observed on 11/4/15

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APPENDIX A

VILLAGE OF WESTON STORM SEWER MAP

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Storm Sewer System Map

Legend

Storm Sewer

DIAMETER

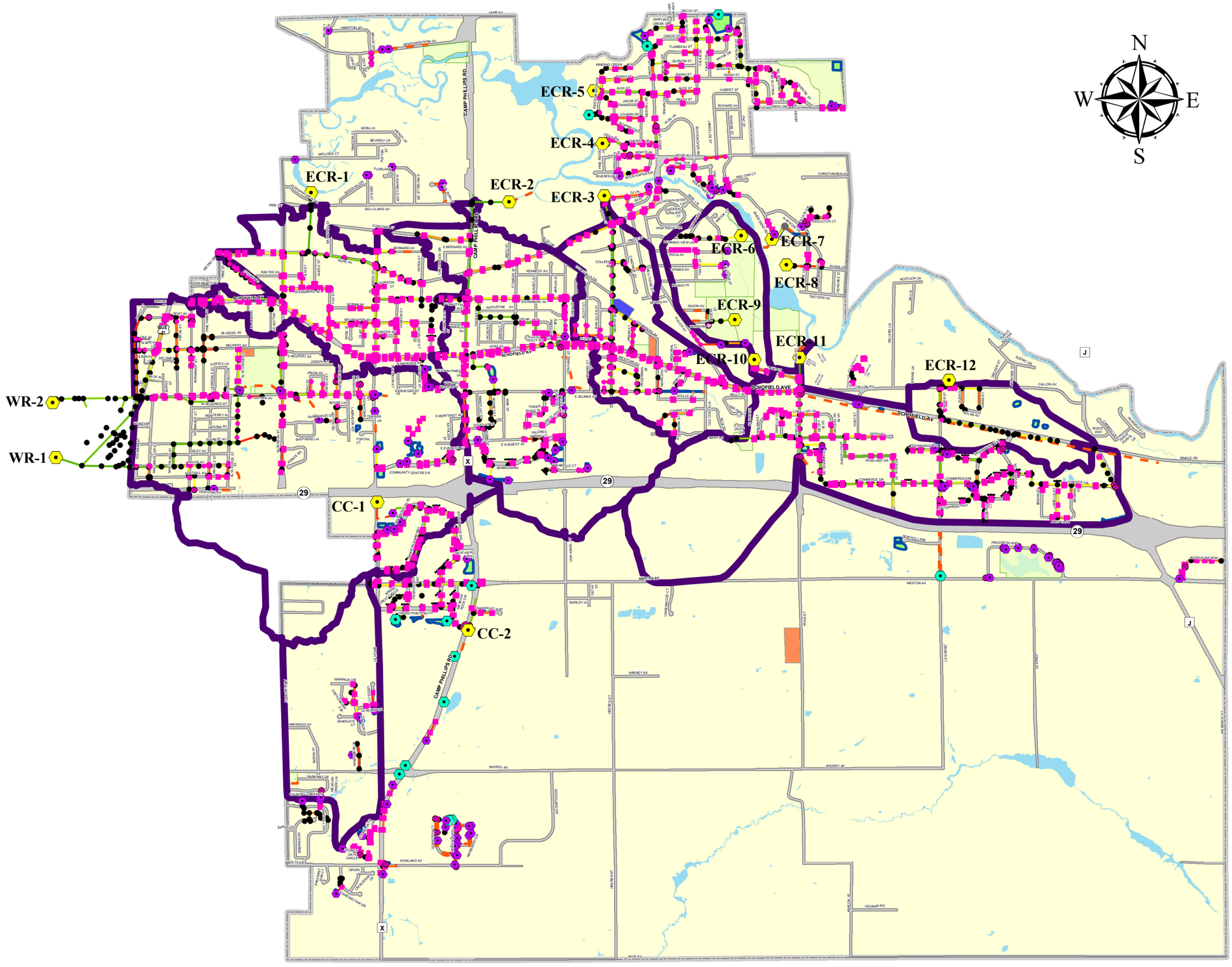
- 84
- 76
- 72
- 60
- 54
- 48
- 42
- 36
- 32
- 30
- 27
- 24
- 21
- 18
- 15
- 12
- 10
- 8
- 6

Outfalls

- Minor
- Major
- Major, Exempt
- <all other values>

Inlet Type

- Catch Basin
- Endwall
- Inlet
- Manhole
- Culvert
- Ditch
- Basin Boundary
- Detention Pond
- Drainage_basins
- Municipal Garages, Storage Areas
- Park
- Safety Building, Garages
- Water



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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.7.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**MICHAEL WODALSKI, DEPUTY DIRECTOR OF PUBLIC WORKS**
ITEM DESCRIPTION:	**LED STREET LIGHT PURCHASE**
DATE/MTG:	**VILLAGE BOARD OF TRUSTEES; MONDAY, MARCH 21, 2015**
POLICY QUESTION:	Should the Village Board approve purchasing the LED American Electric Lighting Autobahn Series ATB2 Roadway Lighting Fixtures from Werner Electric Supply for a total price of $117,654.46?
RECOMMENDATION TO:	I make a motion to approve the recommendation of the Deputy Director of Public Works to move forward with purchasing the LED street light fixtures.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve
☐ Administrative Order
☒ **Expenditure**
☐ Ordinance
☐ Policy
☐ Procedure
☐ Proclamation
☐ Reports
☐ Resolution

FISCAL IMPACT ANALYSIS:

☒ Budget Line Item:	Convert Village-owned Street Lights to LED: Page 167
☐ Budget Line Item:	
☒ Budgeted Expenditure:	$110,000
☒ Budgeted Revenue:	Received grant for $75,000 (total budget of $185,000)

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW: This item was discussed at the Property & Infrastructure Meeting on 3/7/2016

BACKGROUND:

This past year, the Village investigated replacing the approximate 400 Village owned street lights with LED lights as a way to reduce yearly energy costs. As part of this, the Village applied for a grant through the State Energy Office and received a $75,000 reimbursement grant. In February, the Village sent out an RFP to light vendors for the replacement fixtures. Staff will then install the new fixtures. In total, the Village received 4 complete proposals and 1 incomplete proposal (the incomplete proposal is not under consideration).

☒ Supplemental Briefer for Agenda Items under Consideration?

☒ Attachments

Comparison of Proposal Costs

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Village of Weston Wisconsin
VILLAGE BOARD BRIEFER
Michael Wodalski; Deputy Director of Public Works

Date: Thursday, March 17, 2016

Re: Capital Purchase: LED Street Lights

1. Policy Question:

   Should the Village Board of Trustees approve the purchase of a LED American Electric Lighting Autobahn Series ATB2 Roadway Lighting Fixtures from Werner Electric Supply for a total price of $117,654.46?

2. Purpose:

   The purpose of purchasing LED Light Fixtures is to reduce annual energy costs as well as improve the lighting quality on our main corridors with Village owned street lights.

3. Background:

   The Village of Weston has several areas that have village owned street lights. These areas are primarily in the Village's landscaped areas. Specifically, on Schofield Ave from Normandy to Birch St., Community Center Dr. and Barbican Dr. corridors, and the St. Clare's and Crosse Pointe developments south of STH 29.

4. Issue Analysis:

   The majority of the Village's owned street lights are 150-watt fixtures with some 250-watt high pressure sodium (HPS) fixtures. These fixtures have a useful life of approximately 5 years, at which point light bulbs need to be replaced. On average, the Village uses 386,050 Kilowatt Hours (KWh) of energy used per year. The proposed fixtures would be able to reduce the energy usage by at least 40%, which would save roughly 154,420 KWh of energy every year, which equates to roughly $13,900 per year ($0.09/KWh – mixture of on peak and off peak rates).

   A Request for Proposals (RFP) was sent out in February to multiple suppliers and vendors. The Village has received responses from 5 companies (4 complete and 1 incomplete). Only the four completed responses will be evaluated as the incomplete response was not able to indicate whether the quoted fixtures would be sufficient for lighting our streets.

   Respondents were asked to provide photometrics of the roadways to ensure appropriate lighting levels as well as provide costs for the fixtures. The fixtures specified were WisDOT approved fixtures which are thoroughly vetted by the DOT to ensure a quality product.

   In reviewing the proposals, there were 4 that had photometrics matching the requirements based on roadway classification (arterial, collector, local) and pedestrian traffic (high, medium, low). Photometrics were evaluated based on average foot-candle readings as well as the uniformity of the lighting on the roadway, based on dividing the average foot-candle reading by the minimum foot-candle reading. The closer the uniformity is to 1, the more uniform the lighting will be.

   After looking at the performance of the fixtures, the system wattage was also evaluated as lower wattage fixtures would have a lower annual cost in operating. Additionally, staff contacted other municipalities where these fixtures are located to get the local perspective on how the lights have functioned.

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Staff is planning to install the light fixtures ourselves with the Public Works staff. Building Inspector Tatro will teach staff how to properly uninstall the existing fixtures and install the new fixtures.

5. Fiscal Impact:

The Village received complete proposals from four suppliers for LED Street Lighting. The suppliers, fixture quoted and total price are listed below:

Supplier	Fixture (wattage)	Total Price
Werner Electric Supply	Am. Elec. Autobahn ATB2 (91W)	$117,654.46
Etco Electric	Am. Elec. Autobahn ATB2 (91W)	$118,752.00
Crescent Electric	Leotek Green Cobra (105W)	$114,434.00
Solid Flux Lighting	Philips StreetView (105W)	$131,259.00

Staff's recommendation is to award the contract to Werner Electric Supply for $117,654.46. Their fixture met all of the photometric requirements for lighting levels. Additionally, this fixture has a lower wattage, thus by using less energy this fixture will have a lower operational charge over the lifespan of the fixtures. These fixtures have a rated life of 100,000 hours which is equivalent to approximately 25 years.

The budget for these fixtures going into the year was $110,000. In addition to the budgeted amount, the Village received a grant from the State Energy Office for $75,000. When utilizing the grant funds, the resulting expenditure ends up being $42,654.46. With the annual energy savings noted above, the payback period on these fixtures is just over 3 years. Thus, for the next 22 years, the Village will have a real savings of nearly $14,000 per year (and likely more as energy prices will likely rise).

6. Statutory Reference:

Not Applicable – Proposals were received utilizing the State's competitive procurement process.

7. Prior Review:

Discussed at PIC at 3/7/2016 meeting

8. Attachments:

- Information sheets for each fixture
- Proposal Price Summaries

9. Policy Choices:

1) To approve the purchase of the LED Street Lights from Werner Electric
2) To not approve the purchase
3) To recommend the purchase be delayed and have staff investigate other alternatives

10. Recommendation:

I recommend the purchase of the LED Street Lights from Werner Electric.

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11. Legislative Action:

I move to approve the purchase of the LED Street Lights from Werner Electric.

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Village of Weston LED Street Light Cost Proposals (3/14/2016)

			Crecent			Etco			Solid Flux			Werner		
Line Item	Item	QTY	Unit Price	Fixture	Total Cost	Unit Price	Fixture	Total Cost	Unit Price	Fixture	Total Cost	Unit Price	Fixture	Total Cost
A1	Schofield Ave	74	$ 348.00	Leotek GCI 60F MV NW 3	$ 25,752.00	$ 346.00	ATB2 40B E70 R2	$ 25,604.00	$ 393.00	Philips SVM 90W48LED	$ 29,082.00	$ 342.98	Holophane ATB2 w/Arm	$ 25,380.52
B1	Barbican Ave	38	$ 278.00	Leotek GCI 60F MV NW 3	$ 10,564.00	$ 292.00	ATB2 40B E70 R2	$ 11,096.00	$ 319.00	Philips SVM 90W48LED	$ 12,122.00	$ 289.26	Holophane ATB2	$ 10,991.88
B2	Von Kanel	2	$ 278.00	Leotek GCI 60F MV NW 3	$ 556.00	$ 292.00	ATB2 40B E70 R2	$ 584.00	$ 319.00	Philips SVM 90W48LED	$ 638.00	$ 289.26	Holophane ATB2	$ 578.52
B3	Annabelle	3	$ 278.00	Leotek GCI 60F MV NW 3	$ 834.00	$ 292.00	ATB2 40B E70 R2	$ 876.00	$ 319.00	Philips SVM 90W48LED	$ 957.00	$ 289.26	Holophane ATB2	$ 867.78
B4	Community Center Dr	32	$ 278.00	Leotek GCI 60F MV NW 3	$ 8,896.00	$ 292.00	ATB2 40B E70 R2	$ 9,344.00	$ 319.00	Philips SVM 90W48LED	$ 10,208.00	$ 289.26	Holophane ATB2	$ 9,256.32
B5	CTH X 150W	1	$ 278.00	Leotek GCI 60F MV NW 3	$ 278.00	$ 292.00	ATB2 40B E70 R2	$ 292.00	$ 319.00	Philips SVM 90W48LED	$ 319.00	$ 289.26	Holophane ATB2	$ 289.26
B6	CTH X 250W	4	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,112.00	$ 292.00	ATB2 40B E70 R2	$ 1,168.00	$ 319.00	Philips SVM 90W48LED	$ 1,276.00	$ 289.26	Holophane ATB2	$ 1,157.04
C1	Westview Blvd	6	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,668.00	$ 292.00	ATB2 40B E70 R2	$ 1,752.00	$ 319.00	Philips SVM 90W48LED	$ 1,914.00	$ 289.26	Holophane ATB2	$ 1,735.56
C2	CTH X	12	$ 278.00	Leotek GCI 60F MV NW 3	$ 3,336.00	$ 292.00	ATB2 40B E70 R2	$ 3,504.00	$ 319.00	Philips SVM 90W48LED	$ 3,828.00	$ 289.26	Holophane ATB2	$ 3,471.12
C3	Weston Ave	43	$ 278.00	Leotek GCI 60F MV NW 3	$ 11,954.00	$ 292.00	ATB2 40B E70 R2	$ 12,556.00	$ 319.00	Philips SVM 90W48LED	$ 13,717.00	$ 289.26	Holophane ATB2	$ 12,438.18
C4	Cranberry Blvd	22	$ 278.00	Leotek GCI 60F MV NW 3	$ 6,116.00	$ 292.00	ATB2 40B E70 R2	$ 6,424.00	$ 319.00	Philips SVM 90W48LED	$ 7,018.00	$ 289.26	Holophane ATB2	$ 6,363.72
C5	Ministry Parkway	32	$ 278.00	Leotek GCI 60F MV NW 3	$ 8,896.00	$ 292.00	ATB2 40B E70 R2	$ 9,344.00	$ 319.00	Philips SVM 90W48LED	$ 10,208.00	$ 289.26	Holophane ATB2	$ 9,256.32
C6	Birch St North	18	$ 278.00	Leotek GCI 60F MV NW 3	$ 5,004.00	$ 292.00	ATB2 40B E70 R2	$ 5,256.00	$ 319.00	Philips SVM 90W48LED	$ 5,742.00	$ 289.26	Holophane ATB2	$ 5,206.68
C7	Franciscan Way North	6	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,668.00	$ 292.00	ATB2 40B E70 R2	$ 1,752.00	$ 319.00	Philips SVM 90W48LED	$ 1,914.00	$ 289.26	Holophane ATB2	$ 1,735.56
C8	Stone Ridge Dr North	34	$ 278.00	Leotek GCI 60F MV NW 3	$ 9,452.00	$ 292.00	ATB2 40B E70 R2	$ 9,928.00	$ 319.00	Philips SVM 90W48LED	$ 10,846.00	$ 289.26	Holophane ATB2	$ 9,834.84
C9	Franciscan Way South	5	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,390.00	$ 292.00	ATB2 40B E70 R2	$ 1,460.00	$ 319.00	Philips SVM 90W48LED	$ 1,595.00	$ 289.26	Holophane ATB2	$ 1,446.30
C10	Meadow Rock	10	$ 278.00	Leotek GCI 60F MV NW 3	$ 2,780.00	$ 292.00	ATB2 40B E70 R2	$ 2,920.00	$ 319.00	Philips SVM 90W48LED	$ 3,190.00	$ 289.26	Holophane ATB2	$ 2,892.60
C11	Birch St South	6	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,668.00	$ 292.00	ATB2 40B E70 R2	$ 1,752.00	$ 319.00	Philips SVM 90W48LED	$ 1,914.00	$ 289.26	Holophane ATB2	$ 1,735.56
C12	Stone Ridge Dr South	5	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,390.00	$ 292.00	ATB2 40B E70 R2	$ 1,460.00	$ 319.00	Philips SVM 90W48LED	$ 1,595.00	$ 289.26	Holophane ATB2	$ 1,446.30
C13	Cross Pointe	24	$ 278.00	Leotek GCI 60F MV NW 3	$ 6,672.00	$ 292.00	ATB2 40B E70 R2	$ 7,008.00	$ 319.00	Philips SVM 90W48LED	$ 7,656.00	$ 289.26	Holophane ATB2	$ 6,942.24
D1	Schofield Ave @ Enterprise Way	4	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,112.00	$ 292.00	ATB2 40B E70 R2	$ 1,168.00	$ 345.00	Philips SVM 140W48LED	$ 1,380.00	$ 289.26	Holophane ATB2	$ 1,157.04
D2	CTH X @ Howland and Shorey	8	$ 278.00	Leotek GCI 60F MV NW 3	$ 2,224.00	$ 292.00	ATB2 40B E70 R2	$ 2,336.00	$ 345.00	Philips SVM 140W48LED	$ 2,760.00	$ 289.26	Holophane ATB2	$ 2,314.08
D3	CTH X @ Ross Ave	4	$ 278.00	Leotek GCI 60F MV NW 3	$ 1,112.00	$ 292.00	ATB2 40B E70 R2	$ 1,168.00	$ 345.00	Philips SVM 140W48LED	$ 1,380.00	$ 289.26	Holophane ATB2	$ 1,157.04
	Total	**393**		**105 W**	**$ 114,434.00**		**91W**	**$ 118,752.00**		**105W**	**$ 131,259.00**		**91W**	**$ 117,654.46**

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VILLAGE OF WESTON
2016 CIP BUDGET REQUEST
AND 2017 FINANCIAL PLAN
PROGRAM COMMENTS

Department/Office: Finance	**Budget:** Capital Improvements Fund
Program: Capital Projects Funds	**Submitted by:** Keith Donner/John Jacobs

CAPITAL IMPROVEMENTS FUND
2016 Capital Improvements Program (CIP) Budget – 2017 Financial Plan

PUBLIC WORKS & PARKS DEPARTMENTS:	Total Cost	# of Years Financed	2016 Proposed Budget	2017 Financial Plan	2018 Financial Plan
Public Works - New Plow Truck	$ 166,712	5	$ 41,678	$ 41,678	$ 41,678
Public Works - End Loader with Wing/Plow *Additional Portion Funded in Refuse/ Recycling Fund (2015 budget amount = $64,632)*	$ 48,456	3	16,152	16,152	-
Public Works - Replace Plow Truck #9	$ 204,230	5	40,846	40,846	40,846
Public Works - Replace Pickup Truck #59	$ 32,863	1	-	-	-
Public Works - Replace Dump Truck #25 *100% Funded by Refuse/Recycling Fund (2015 budget amount = $33,909)*	$ -	5	-	-	-
Parks - Ball Diamond Machine	$ 22,768	1	-	-	-
Public Works - Replace Excavator #23 *Additional Portion Funded in Refuse/Recycling Fund (2015 budget amount = $23,500)* *Additional Portion Funded in Water Utility Fund (2015 budget amount = $4,700)*	$ 135,105 $ -	5	27,021	27,021	27,021
Public Works - New Street Sweeper	$ 176,465	5	35,293	35,293	35,293
Less: Estimated Trade-In Values on Equipment	$ -	1	-	-	-
Parks - Canoe Launch Facility	$ 147,000	1	-	-	-
Public Works - Kmiecik Culvert/Bridge Replacement	$ 65,000	1	-	-	-
Public Works - Transport Way Reconstruction	$ 35,000	1	-	-	-
Public Works - Schofield Ave./Ryan to CTH J (WDOT invoice balance)	$ -	1	-	-	-
Public Works - Pedestrian Bridge (WDOT invoice balance)	$ -	1	-	-	-
Plow Truck #60	$ 210,000	5	42,000	42,000	42,000
Snow Blower to replace 1957 Snow Blower	$ 165,000	3	55,000	55,000	55,000
Parks Mower #143 (11-foot mower)	$ 55,000	1	55,000	-	-
Staff Vehicle (Conferences, Meetings, etc.)	$ 28,000	1	28,000	-	-
Connect Ridgeview Subdivision to E. Everest Avenue *(Total = $77,000; $60,000 - CIP Fund; $12,000 - Water; $5,000 - Stormwater)*	$ 60,000	1	60,000	-	-
Convert Village-owned Street Lights to LED	$ 110,000	1	110,000	-	-
Purchase Lot - Transport Way for Road Connection	$ 120,000	1	120,000	-	-
Municipal Center Facilities Assessment Study	$ 105,000	1	105,000	-	-
Birch Street Multi-Use Path Extension	$ 6,215	1	6,215	-	-
Plow Truck #17 (just Truck Chassis)	$ 140,000	5	-	28,000	28,000
Parks Mower #115 (72-inch mower)	$ 25,000	1	-	25,000	-
Parks Walk-Behind Mower #142	$ 5,500	1	-	5,500	-
Multi-Purpose Mower/Blower #113	$ 120,000	3	-	40,000	40,000
Parks Zero Turn Mower	$ 22,000	1	-	-	22,000
Plow Truck #69	$ 210,000	5	-	-	42,000
One-Ton Pickup Truck #21	$ 22,500	1	-	-	22,500
Grader	$ 325,000	5	-	-	65,000

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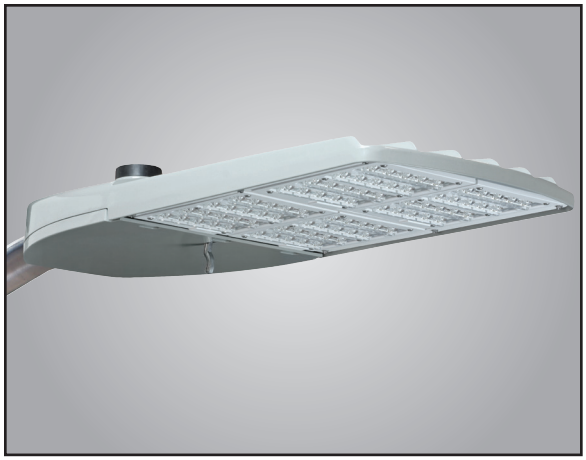
Autobahn Series ATB2
Roadway Lighting

Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

PRODUCT OVERVIEW

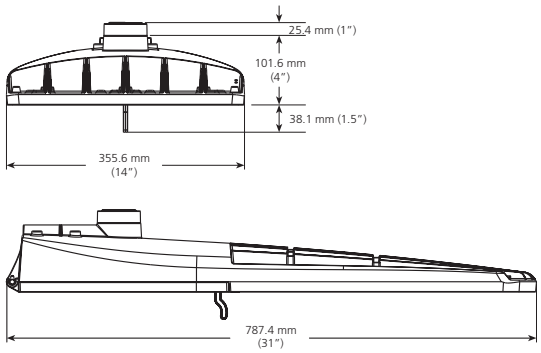
WisDOT LED 'A'
659.1115



Applications:

- Roadways
- Off ramps
- Residential streets
- Parking lots

DIMENSIONS



Effective Projected Area (EPA)
The EPA for the ATB2 is 0.78 sq. ft.,
Approx. Wt. = 21 lbs. (9.53 kg)

Features:

OPTICAL

Same Light: Performance is comparable to 250-400W HPS roadway luminaires.

White Light: Correlated color temperature - standard 4000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available in Type II, III, IV, & V roadway distributions.

ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an average of 40-60% over comparable HPS platforms.

Robust Surge Protection: Three different surge protection options provide a minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

MECHANICAL

Easy to Maintain: Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing is polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 1000 hours exposure to salt fog chamber (operated per ASTM B117) Optional Enhanced Corrosion Resistant finish (CR) increases the salt spray exposure to 5000 hours.

Four-bolt mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter and provides a 3G vibration rating per ANSI C136.

Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 Pin photocontrol receptacle is standard, with the Acuity designed ANSI 5 Pin and 7 Pin receptacles optionally available.

Premium solid state locking sale photocontrol - PCSS (10 year rated life). Extreme long life sold state locking style photocontrol - PCLL (20 year rated life).

Mulit-level dimming available to provide scheduled dimming as specified by the customer.

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and can also allow a single fixture to be flexibly applied in many different applications.

WARRANTY & STANDARDS

5 year limited warranty. Full warranty terms located at http://www.acuitybrands.com/Libraries/Terms_and_Conds/ABL_LED_Commerical_Outdoor.sflb.ashx

Rated for -40°C to 40°C ambient.

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

American Electric Lighting

Autobahn Series ATB2
Roadway Lighting

ORDERING INFORMATION

Example: ATB2 40LEDE70 MVOLT R2

ATB2 40BLEDE70 MVOLT R2 P7 SH RFD189563 659.1115 LED A

Series

ATB2 Autobahn LED Roadway & Security

Performance Packages

40BLEDE70	40B Chips, 700mA Driver
40BLEDE10	40B Chips, 1050mA Driver
40BLEDE13	40B Chips, 1300mA Driver
60BLEDE70	60B Chips, 700mA Driver
60BLEDE85	60B Chips, 850mA Driver
60BLEDE10	60B Chips, 1050mA Driver
60BLEDE13	60B Chips, 1300mA Driver
80LEDE70	80B Chips, 700mA Driver
80LEDE85	80B Chips, 850mA Driver
80LEDE10	80B Chips, 1050mA Driver

Voltage

MVOLT	Multi-volt, 120-277V
347	347V
480	480V

Optics

R2	Roadway Type II
R3	Roadway Type III
R4	Roadway Type IV
R5	Roadway Type V

Options

Color Temperature (CCT)

(Blank)	4000K CCT, 70 CRI Min. (Standard)
5K	5000K CCT, 70 CRI Min.

Paint

(Blank)	Gray (Standard)
BK	Black
BZ	Bronze
DDB	Dark Bronze
GI	Graphite
WH	White

Surge Protection

Blank	Acuity SPD with inductive filter (Standard)
MP[1]	MOV Pack
IL[1]	SPD with Indicator Light

Terminal Block

(Blank)	Terminal Block (Standard)
T2	Wired to L1 & L2 Positions

Misc.

BL	External Bubble Level
CR	Enhanced Corrosion Resistant Finish
HS	House-Side Shield
NL	Nema Label
XL	Not CSA Certified

Controls

(Blank)	3 Pin NEMA Photocontrol Receptacle (Standard)
P5	5 Pin Photocontrol Receptacle (Dimmable Driver Included)
P7	7 Pin Photocontrol Receptacle (Dimmable Driver Included)
NR	No Photocontrol Receptacle
AO[2]	Field Adjustable Output
DM	0V-10V Dimmable Driver (Controls by others)
ML[3,4]	Multi-Level Dimming
PCSS[1]	Solid State Lighting Photocontrol (120-277V)
PCLL	Solid State Long Life Photocontrol
SH	Shorting Cap

Packaging

(Blank)	Single Unit (Standard)
JP	Job Pack (24/Pallet)

Notes

1. Not available in 347 or 480V.
2. Not available with DM or ML options.
3. Not available with AO, DM, P5 or P7 options.
4. Dimming schedule and light level information required from the customer in order to configure product. Contact Infrastructure Technical Support to proceed.

WisDOT LED LABEL 'A'
Drawing Date 11/04/15
EFFECTIVE 12/2015

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

American Electric Lighting
AEL Headquarters, 3825 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com

Warranty Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Please contact your sales representative for the latest product information.

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PERFORMANCE PACKAGE

Performance Package	Drive Current (mA)	Input Watts	Optic	4000K CCT		LLD @ 25°C	
				Delivered Lumens	Efficacy (LPW)	50k Hours	100k Hours
40B	700	91	R2	11266	124	0.98	0.96
	1000	138		15685	114	0.95	0.90
	1300	177		18277	103	0.94	0.88
	700	91	R3	11160	123	0.98	0.96
	1000	138		15520	112	0.95	0.90
	1300	177		18050	102	0.94	0.88
	700	91	R4	10775	118	0.98	0.96
	1000	138		15015	109	0.95	0.90
	1300	177		17341	98	0.94	0.88
	700	91	R5	12097	133	0.98	0.96
	1000	138		16729	121	0.95	0.90
	1300	177		19564	111	0.94	0.88
60B	700	133	R2	16986	128	0.98	0.96
	850	173		19966	115	0.95	0.90
	1000	208		23710	114	0.95	0.90
	1300	260		27308	105	0.94	0.88
	700	133	R3	17128	129	0.98	0.96
	850	173		20105	116	0.95	0.90
	1000	208		23250	112	0.95	0.90
	1300	260		27477	106	0.94	0.88
	700	133	R4	16516	124	0.98	0.96
	850	173		19429	112	0.95	0.90
	1000	208		22718	109	0.95	0.90
	1300	260		26400	102	0.94	0.88
	700	133	R5	17882	134	0.98	0.96
	850	173		21000	121	0.95	0.90
	1000	208		24673	119	0.95	0.90
	1300	260		28838	111	0.94	0.88
80B	700	180	R2	22528	125	0.98	0.96
	850	224		26394	118	0.95	0.90
	1000	274		30998	113	0.95	0.90
	700	180	R3	22127	123	0.98	0.96
	850	224		25955	116	0.95	0.90
	1000	274		30491	111	0.95	0.90
	700	180	R4	21701	121	0.98	0.96
	850	224		25350	113	0.95	0.90
	1000	274		29567	108	0.95	0.90
	700	180	R5	23799	132	0.98	0.96
	850	224		27851	124	0.95	0.90
	1000	274		32391	118	0.95	0.90

Note: Information shown above is based on nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.

ATB2 LLD Multiplier	15°C	20°C	25°C	30°C	35°C	40°C
	1.02	1.01	1	0.99	0.97	0.96

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.

American Electric Lighting®
AEL Headquarters, 3825 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com

Warranty Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Please contact your sales representative for the latest product information.

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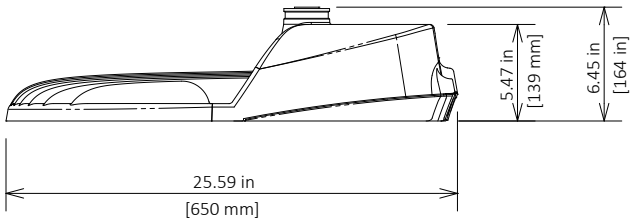
LEOTEK
LITE-ON GROUP

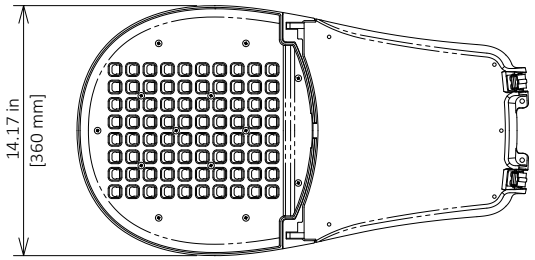
Project
Type
Catalog No.

GreenCobra™ LED Street Light
GC1

Luminaire Data

Weight 21 lbs [9.5 kg]
EPA 0.9 ft2





Ordering Information

Sample Catalog No. GC1 60F MV NW 2 GY 350 BSK RPB FDC

Product	No. & Type of LEDs	Voltage[6]	Color Temperature	Distribution	Finish[2]	Drive Current[1]	Options
GC1	**20F**	**MV** 120-277V	**WW** 3000K	**2** Type 2	**GY** Gray	**350** 350mA	**HSS**[4] House Side Shield (Factory Installed)
	30F	**HV** 347-480V	**NW** 4000K	**3** Type 3	**DB** Dark Bronze	**530** 530mA	**FDC**[5] Fixed Drive Current
	40F		**CW** 5000K		**BK** Black	**700** 700mA	**LPCR** Less Photocontrol Receptacle
	60F					**1A**[3] 1A	**PCR5** ANSI 5-wire Photocontrol Receptacle
	80F						**PCR7** ANSI 7-wire Photocontrol Receptacle
							PCR5-CR Control Ready 5-wire Photocontrol Receptacle
							PCR7-CR Control Ready 7-wire Photocontrol Receptacle
							SC PCR Shorting Cap
							WL Utility Wattage Label

Notes:

1 Factory set drive current, field adjustable standard. Refer to Performance Data Table Consult factory if wattage limits require a special drive current.
2 Gray, Black and Dark Bronze standard, consult factory for other finishes.
3 1A drive current only available with 40F.
4 Flush mounted house side shield factory installed. Shield cuts light off at 1/2 mounting height behind luminaire.
5 Non-field adjustable, fixed drive current.
6 MV is DLC qualified. HV is DLC qualified on request, consult factory.
7 Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire. Specify Model and Color.
8 Specify Color (GY, DB, BK)
9 Specify MV (120-277V) or HV (347V-480V)

Accessories*	
HSS[7]	House Side Shield
SPB[8]	Square Pole Horizontal Arm Bracket
RPB[8]	Round Pole Horizontal Arm Bracket
PTB[8]	Pole Top Tenon Horizontal Arm Bracket
WB[8]	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
PC[9]	Twist Lock Photocontrol
LLPC[9]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number

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GreenCobra™ LED Street Light
GC1

Luminaire Specifications

Housing
Die cast aluminum housing with universal four-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2001 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from + 10° to -5° in 2.5° steps and integral bubble level standard. Electrical components are accessed without tools and are mounted on removable power door with stainless steel latches. Standard rubber wildlife guard conforms to mast arm with no gaps.

Light Emitting Diodes
Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Optical Systems
Micro-lens optical systems produce IESNA Type 2 or Type 3 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90^0 (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR5-CR or PCR7-CR options). Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 2 to 14 gauge wire and is aligned for strait wire entry. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA.

Controls
3-Wire photocontrol receptacle is standard. ANSI C136.41 5-wire (PCR5) or 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish
Housing receives a fade and abrasion resistant polyester powder coat finish. Finish tested to withstand 3000 hours in salt spray exposure per ASTM B117. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified 120-277V 4000K product. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A

Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components.

Performance Data
All data nominal, consult factory for IES files or LM-79 reports.

					Type 2	Type 3
No. of LEDs & Type	**Drive Current (mA)**	**System Wattage (W)**	**Delivered Lumens (Lm)[1]**	**Efficacy (Lm/W)**	**BUG Rating**	**BUG Rating**
20F	350	25	2700	108	B1 U0 G1	B1 U0 G1
	530	35	3650	104	B1 U0 G1	B1 U0 G1
	700	47	4800	102	B1 U0 G1	B1 U0 G1
30F	350	35	3800	109	B1 U0 G1	B1 U0 G1
	530	53	5400	102	B1 U0 G1	B2 U0 G1
	700	70	7000	100	B2 U0 G2	B2 U0 G2
40F	350	45	5050	112	B1 U0 G1	B2 U0 G1
	530	70	7200	103	B2 U0 G2	B2 U0 G2
	700	92	9300	101	B2 U0 G2	B2 U0 G2
	1000	132	12300	93	B3 U0 G3	B3 U0 G3
60F	350	70	7600	109	B2 U0 G2	B2 U0 G2
	530	101	10400	103	B2 U0 G2	B2 U0 G2
	700	133	13400	101	B3 U0 G3	B3 U0 G3
80F	350	85	9500	112	B2 U0 G2	B2 U0 G2
	530	133	14200	107	B3 U0 G3	B3 U0 G3
	700	180	17700	98	B3 U0 G3	B3 U0 G3

Notes:
1 Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

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PHILIPS

LUMEC

Roadway

StreetView

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The Philips Lumec StreetView LED luminaire is designed for many applications that require medium intensity lighting. Powered by the Philips LEDgine platform and featuring innovative thermal management design, this LED luminaire has two major assets: exceptional performance and unbeatable value.

Ordering guide

example: SVM-90W48LED4K-G2-LE3-UNIV-DMG-RC-HS-GY3

Luminaire	LED Module	Optical System	Voltage	Driver and Dimming	Twist-Lock Receptacle	Surge Protection	Luminaire Accessories	Finish
SVM					RC			GY3
SVM StreetView Medium	**16W16LED4K-G2**[4] or **22W16LED4K-G2**[4] or **24W16LED4K-G2**[4] or **30W16LED4K-G2**[4] or **32W32LED4K-G2** or **48W32LED4K-G2** or **60W32LED4K-G2** or **48W48LED4K-G2** or **72W48LED4K-G2** or **90W48LED4K-G2** or **140W48LED4K-G2**[2,4]	**LE2** Type II **LE3** Type III **LE5** Type V	**UNIV** 120-277VAC: 16 LED 32 LED 48 LED 140W 48 LED **HVU** 347-480VAC: 32 LED 48 LED	*Standard:* **DMG**[1,5] Dimmable driver 0-10V *Optional:* *(not available for 140W48LED)* **AMPD**[2,4,5] Amplight Dimming **Dynadimmer** Economy Profile **CDMGE25**[2,4,5] **CDMGE50**[2,4,5] **CDMGE75**[2,4,5] Median Profile **CDMGM25**[2,4,5] **CDMGM50**[2,4,5] **CDMGM75**[2,4,5] Safety Profile **CDMGS25**[2,4,5] **CDMGS50**[2,4,5] **CDMGS75**[2,4,5] **DALI**[2,4,5] Digitally Addressable Lighting Interface **DMG-AST***[2,4] Adjustable Startup Time **DMG-CLO***[2,4,5] Constant Light Output **DMG-OTL***[2,4] Over The Life **Includes 0-10v dimming*	*Standard:* **RC**[1,3] Receptacle for twist-lock photocell or shorting cap	*Optional:* **SP2**[6] 20kV / 20kA Surge Protector	**HS** House side shield, 1 per 16 LED light engine **PH8**[3,4] Twist-lock Photoelectric Cell, UNIV (120-277VAC) **PH8/347**[3] *(not available for 140W48LED)* Twist-lock Photoelectric Cell, HVU (347VAC) **PH8/480**[3] *(not available for 140W48LED)* Twist-lock Photoelectric Cell, HVU (480VAC) **PH8XL**[3,4] Twist-lock Photoelectric Cell, extended life, UNIV (120-277VAC) **PH9**[3] Shorting cap **SPC**[3,7] Starsense Photo-cell Control	**GY3** Grey finish

1. Please note these integrated features come standard with StreetView luminaires.
2. Denotes programmable driver option. Not available with HVU (347-480volt). Not available with 1050 mA version (140W48LED).
3. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
4. Not available with HVU (347-480volt).
5. Dimming choices: Select either DMG or AMPD or one of the CDMG options or DALI.
6. When SP2 option is selected you will get SP2 instead of standard SP1.
7. Please note that more hardware as well as software are required. Please contact the quotations department for help with putting together the entire control system.

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SVM StreetView

LED Cobra Head: 16, 32, and 48 LED

LED wattage and lumen values

LED CRI = 70, CCT = 4000K nominal (3985K +/- 275K or 3710K to 4260K), System (LED + driver) rated life = 100,000 hrs[1]

LED Module	Typical delivered lumens	Typical system wattage (W)[2]	LED current (mA)	Typical System Current (A) @						Luminaire Efficacy Rating (Lm/W)	BUG rating
				120V	208V	240V	277V	347V	480V		
16W16LED4K-G2-LE2	2164	19	350	0.160	0.100	0.090	0.082			113	B1-U0-G1
16W16LED4K-G2-LE3	2192	19	350	0.160	0.100	0.090	0.082			115	B1-U0-G1
16W16LED4K-G2-LE5	2299	19	350	0.160	0.100	0.090	0.082			123	B2-U0-G0
22W16LED4K-G2-LE2	2822	26	470	0.210	0.125	0.115	0.105			109	B1-U0-G1
22W16LED4K-G2-LE3	2860	26	470	0.210	0.125	0.115	0.105			111	B1-U0-G1
22W16LED4K-G2-LE5	2999	26	470	0.210	0.125	0.115	0.105	N/A		116	B2-U0-G1
24W16LED4K-G2-LE2	2965	27	530	0.225	0.135	0.120	0.110			109	B1-U0-G1
24W16LED4K-G2-LE3	3004	27	530	0.225	0.135	0.120	0.110			110	B1-U0-G1
24W16LED4K-G2-LE5	3150	27	530	0.225	0.135	0.120	0.110			115	B2-U0-G1
30W16LED4K-G2-LE2	3792	36	700	0.290	0.175	0.150	0.135			105	B1-U0-G1
30W16LED4K-G2-LE3	3842	36	700	0.290	0.175	0.150	0.135			106	B1-U0-G1
30W16LED4K-G2-LE5	4029	36	700	0.290	0.175	0.150	0.135			112	B3-U0-G1
32W32LED4K-G2-LE2	4085	34	350	0.300	0.185	0.165	0.155	0.105	0.090	118	B1-U0-G1
32W32LED4K-G2-LE3	4139	35	350	0.300	0.185	0.165	0.155	0.105	0.090	120	B1-U0-G1
32W32LED4K-G2-LE5	4341	35	350	0.300	0.185	0.165	0.155	0.105	0.090	126	B3-U0-G1
48W32LED4K-G2-LE2	6132	53	530	0.450	0.270	0.240	0.215	0.160	0.130	116	B2-U0-G1
48W32LED4K-G2-LE3	6214	53	530	0.450	0.270	0.240	0.215	0.160	0.130	117	B2-U0-G1
48W32LED4K-G2-LE5	6515	53	530	0.450	0.270	0.240	0.215	0.160	0.130	123	B3-U0-G1
60W32LED4K-G2-LE2	7752	71	700	0.595	0.340	0.295	0.265	0.210	0.160	109	B2-U0-G2
60W32LED4K-G2-LE3	7855	71	700	0.595	0.340	0.295	0.265	0.210	0.160	110	B2-U0-G2
60W32LED4K-G2-LE5	8237	71	700	0.595	0.340	0.295	0.265	0.210	0.160	116	B3-U0-G1
48W48LED4K-G2-LE2	6341	54	350	0.440	0.260	0.250	0.230	0.160	0.130	117	B2-U0-G1
48W48LED4K-G2-LE3	6426	54	350	0.440	0.260	0.250	0.230	0.160	0.130	118	B2-U0-G2
48W48LED4K-G2-LE5	6734	54	350	0.440	0.260	0.250	0.230	0.160	0.130	124	B3-U0-G1
72W48LED4K-G2-LE2	8985	79	530	0.660	0.390	0.350	0.310	0.225	0.170	114	B2-U0-G2
72W48LED4K-G2-LE3	9105	79	530	0.660	0.390	0.350	0.310	0.225	0.170	116	B2-U0-G2
72W48LED4K-G2-LE5	9542	79	530	0.660	0.390	0.350	0.310	0.225	0.170	121	B3-U0-G2
90W48LED4K-G2-LE2	11475	105	700	0.890	0.515	0.455	0.390	0.305	0.225	109	B2-U0-G2
90W48LED4K-G2-LE3	11628	105	700	0.890	0.515	0.455	0.390	0.305	0.225	111	B2-U0-G2
90W48LED4K-G2-LE5	12186	105	700	0.890	0.515	0.455	0.390	0.305	0.225	116	B4-U0-G2
140W48LED4K-G2-LE2	15790	160	1050	1.330	0.760	0.665	0.575			99	B3-U0-G3
140W48LED4K-G2-LE3	16010	161	1050	1.330	0.760	0.665	0.575	N/A		99	B3-U0-G3
140W48LED4K-G2-LE5	17248	162	1050	1.330	0.760	0.665	0.575			106	B4-U0-G2

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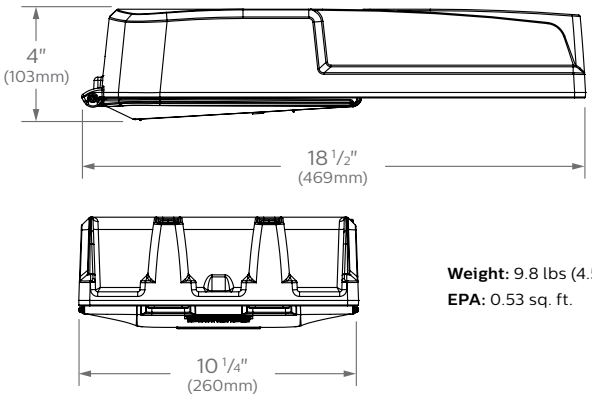
SVM StreetView

LED Cobra Head: 16, 32, and 48 LED

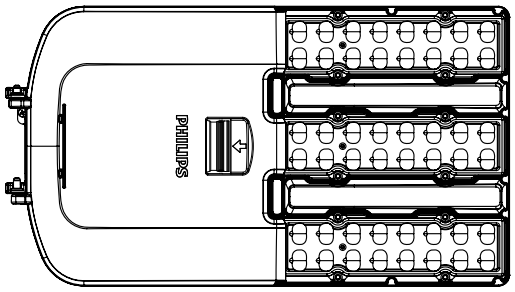
Dimensions

Side View



Weight: 9.8 lbs (4.5 kg)
EPA: 0.53 sq. ft.

Bottom View



Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1050 mA	>100,000 hours	>60,000 hours	>96%

Specifications

Housing

Made of low copper die cast A360 Aluminum alloy, for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness. Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 5 1/4" (133mm) minimum long tenon. Comes with a zinc plated clamp fixed by 2 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provides an easy step adjustment of +/- 5° tilt in 2.5º increments. A quick release, tool less entry, hinged, removable polymeric door with integral latch opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. A clearance of 8" (203mm) at the rear is required in order to remove the door. Complete with a bird guard protecting against birds and similar intruders and an ANSI label to identify wattage and source (both included in box).

Light Engine

Composed of 4 main components: LED Module / Optical System / Heat Sink / Driver.

Electrical components are RoHS compliant, IP66 sealed light engine. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

LED Module: (Included), High performance white LEDs. Color temperature as per ANSI/NEMA, bin neutral white 4000 Kelvin nominal (3985 +/- 275K or 3710K to 4260K), CRI 70 Min.

Optical System: Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Dark Sky compliant with 0% uplight and U0 per IESNA TM-15.

Heat Sink: Built in the housing, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimising their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling). Wide openings enable natural cleaning and removal of dirt and debris. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +40°C / +104°F.

Driver: High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 or 347 to 480 VAC (140W48LED4K available in 120-277V only) rated for both application line to line or line to neutral, Class I, THD of 20% max.

DMG: Dimming compatible 0-10 volts.
The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Integrated Features

DMG: Dimmable driver 0-10V.

RC: Receptacle for a twist-lock photocell or shorting cap. Use of photocell or shorting cap is required to ensure proper illumination.

SP1: Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA.

Please note that these integrated features always come with StreetView luminaire.

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SVM StreetView

LED Cobra Head: 16, 32, and 48 LED

Specifications (continued)

Driver and Luminaire Options

AMPD*: Driver pre-programmed for compatibility with Amplight control system.

AST*: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.

CLO*: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.

DALI*: Pre-set driver compatible with the DALI control system.

OTL*: Pre-set driver to signal end of life of the LED module(s) for better fixture management.

CDMG*: Dynadimmer standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

Safety Mode:
CDMGS25: 4 hours, 25% power dimming
CDMGS50: 4 hours 50% power dimming
CDMGS75: 4 hours 75% power dimming

Median Mode:
CDMGM25: 6 hours 25% power dimming
CDMGM50: 6 hours 50% power dimming
CDMGM75: 6 hours 75% power dimming

Economy Mode:
CDMGE25: 8 hours 25% power dimming
CDMGE50: 8 hours 50% power dimming
CDMGE75: 8 hours 75% power dimming

** Not available with HVU (347-480V)*

SP2: 20kV / 20kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

HS: House side shield, 1 per 16 LED light engine.

PH8*: Twist-lock Photoelectric Cell, UNIV (120-277VAC).

PH8/347*: Twist-lock Photoelectric Cell, HVU (347VAC).

PH8/480*: Twist-lock Photoelectric Cell, HVU (480VAC).

PH8XL*: Twist-lock Photoelectric Cell, extended life, UNIV (120-277VAC).

PH9*: Shorting cap.

** Use of photoelectric cell or shorting cap is required to ensure proper illumination.*

SPC: Starsense twist-lock photoelectric cell and antenna node, on / off.

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, Philips System Reliability Tool, Philips Advance data and Philips Lumileds LM-80/TM-21 data, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Wiring

The connection of the luminaire is done using a terminal block connector 600V, 85A for use with #2 to #14 AWG. wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a 10Amp time-delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses.

Hardware

All exposed screws shall be complete with Ceramic primer seal to reduce seizing of the parts, also offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

LED products manufacturing standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Vibration Resistance

The SVM meets the ANSI C136.31, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications. (Tested for 3G over 100,000 cycles by independent lab)

Certifications and Compliance

cULus Listed for Canada and USA. Luminaire meets DOE and MSSLC Model Specification for LED Roadway Luminaires. StreetView LED Cobrahead luminaires are DesignLights Consortium qualified. Luminaire complies with or exceeds the following ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Limited Warranty

10-year limited warranty.
See philips.com/warranties for details and restrictions.

Brackets/Arms

For brackets / arms available with this luminaire, see Lumec 3D for details.

Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

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Contract No. 16-26

AGREEMENT

Between the

PUBLIC SERVICE COMMISSION OF WISCONSIN
STATE ENERGY OFFICE

and

VILLAGE OF WESTON

THIS AGREEMENT is made and entered into by and between the Public Service Commission of Wisconsin State Energy Office ("SEO"), representing the State of Wisconsin, and Village of Weston ("Contractor") (collectively "parties") for the Performance Period of the date this agreement is signed by the SEO and the Contractor through **June 30, 2016.**

WHEREAS, on behalf of the State, the SEO administers the State Energy Program ("Program") to provide funds for eligible activities; and

WHEREAS, it is the intention of the parties to this Agreement that all activities described herein shall be for their mutual benefit; and

WHEREAS, the SEO has approved an award to the Contractor in the amount of **$75,000.00** for eligible activities herein described; and

WHEREAS, the terms and conditions herein shall survive the Performance Period and shall continue in full force and effect until the Contractor has completed and is in compliance with all the requirements of this Agreement; and

WHEREAS, this Agreement is mutually exclusive and is distinguished from all previous Agreements between the Contractor and the SEO and contains the entire understanding between the parties;

NOW, THEREFORE, in consideration of the mutual promises and dependent documents, the parties hereto agree as follows:

The following documents are part of this Agreement:

1) This Agreement (including all attachments and the initial workplan delivered under this Agreement)

BY: _____
Michael Wodalski

TITLE: **Deputy Director of Public Works**

DATE: 1-21-2016

BY: _____
Sarah Klein

TITLE: **Administrator, Division of Business and Program Management**

DATE: 2/17/16

Catalog of Federal Domestic Assistance (**CFDA**) Number: 81.041

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GENERAL TERMS AND CONDITIONS

ARTICLE 1. CONTRACT ADMINISTRATION

The SEO employee responsible for the administration of this Agreement shall be the Division of Business and Program Management Administrator or their designee and who shall represent the SEO's interest in review of quality, quantity, rate of progress, timeliness of services, and related considerations as outlined in this Agreement.

The Contractor's employee responsible for the administration of this Agreement shall be Michael Wodalski, Deputy Director of Public Works**,** who shall represent the Contractor's interest regarding Agreement performance, financial records and related considerations. The SEO shall be immediately notified of any change of this designee.

ARTICLE 2. APPLICABLE LAW

This Agreement shall be governed by the Laws of the State of Wisconsin and the United States. The Contractor shall at all times comply with and observe all federal, state, and local laws, ordinances, and regulations which are in effect during the Performance Period of this Agreement and which in any manner affect the work or its conduct. In addition, the Contractor pledges to abide by and comply with the following requirements:

1. Contract funds shall not be used to supplant existing funding otherwise budgeted or planned for projects outside of this program whether under local, state or federal law, without the consent of the SEO.

2. The Contractor, its agents and employees shall observe all relevant provisions of the Ethics Code for Public Officials under Wis. Stat. Secs. 19.41 *et seq* and 19.59 *et seq*.

ARTICLE 3. LEGAL RELATIONS AND INDEMNIFICATION

The Contractor shall at all times comply with and observe all federal and state laws and published circulars, local laws, ordinances, and regulations which are in effect during the Performance Period of this Agreement and which in any manner affect the work or its conduct.

In carrying out any provisions of this Agreement or in exercising any power or authority contracted to the Contractor thereby, there shall be no personal liability upon the SEO, it being understood that in such matters the SEO act as agents and representatives of the State.

The Contractor shall indemnify and hold harmless the SEO and all of its officers, agents and employees from all suits, actions or claims of any character brought for or on account of any injuries or damages received by any persons or property resulting from the operations of the Contractor, or of any of its agents or subcontractors, in performing work under this Agreement. The Contractor shall indemnify and hold harmless the SEO and all of its officers, agents and employees from all suits, actions or claims of any character brought for or on account of any obligations arising out of agreements between Contractor and subcontractor(s) to perform services or otherwise supply products or services. The Contractor shall also hold the SEO harmless for any audit disallowance related to the allocation of administrative costs under this Agreement, irrespective of whether the audit is ordered by federal or state agencies or by the courts.

If an audit is required by federal law and if the Contractor is also the recipient of SEO funds under the same or a separate contract program, then the SEO funded programs shall also be included in the scope of the federally required audit.

ARTICLE 4. SCOPE OF WORK

The Contractor shall supply or provide for all the necessary personnel, equipment, and materials (except as may be otherwise provided herein) to accomplish the tasks set forth on the attached Scope of Work and Budget (ATTACHMENTS A and B respectively). In the event of a conflict between the summary in Attachments A and B and the application and/or other supporting documents previously submitted to the State by the Contractor, Attachments A and B shall control. Changes to the Scope of Work shall be by written agreement of both the SEO and the Contractor.

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ARTICLE 5. STANDARDS OF PERFORMANCE

The Contractor shall perform the project and activities as set forth in the Contract Application and described herein in accordance with those standards established by statute, administrative rule, the SEO, and any applicable professional standards.

ARTICLE 6. SUBLET OR ASSIGNMENT OF AGREEMENT

The Contractor, its agents, or subcontractors shall not sublet or assign all or any part of the work under this Agreement without prior written approval of the SEO. The SEO reserves the right to reject any subcontractor after notification. The Contractor shall provide the SEO with a copy of any executed subcontract or accepted subcontractor bid for the purpose of administering this Agreement which relates to activities funded and which exceeds the amount shown in ATTACHMENT B. The Contractor shall be responsible for all matters involving any subcontractor engaged under this Agreement, including contract compliance, performance, and dispute resolution between itself and a subcontractor. The SEO bears no responsibility for subcontractor compliance, performance, or dispute resolution hereunder.

ARTICLE 7. DISCLOSURE: STATE PUBLIC OFFICIALS AND EMPLOYEES

If a State public official (as defined in section 19.42, Wis. Stats.) or an organization in which a State public official holds at least a 10% interest is a party to this Agreement, this Agreement shall be voided by the State unless timely, appropriate disclosure is made to the State of Wisconsin Government Accountability Board, 212 East Washington Ave., Third Floor, Madison, Wisconsin 53703.

The Contractor shall not engage the services of any person or persons now employed by the State of Wisconsin, including any department, commission or board thereof, to provide services relating to this Agreement without the prior written consent of the SEO and the employer of such person or persons.

ARTICLE 8. NONDISCRIMINATION IN EMPLOYMENT

The Contractor shall not discriminate against any employee or applicant for employment because of age, race, religion, color, handicap, sex, physical condition, developmental disability as defined in section 51.01(5), Wis. Stats., sexual orientation as defined in s.111.32(13m), Wis. Stats., or national origin. This includes, but is not limited to, employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Except with respect to sexual orientation, the Contractor shall take affirmative action to ensure equal employment opportunities. The Contractor shall post in conspicuous places, available for employees and applicants for employment, notices to be provided by the State of Wisconsin setting forth the provisions of the nondiscrimination clause.

Contracts estimated to be over fifty thousand dollars ($50,000) require the submission of a written affirmative action plan by the Contractor. An exemption occurs from this requirement if the Contractor has a workforce of less than fifty (50).

Within fifteen (15) working days after this Agreement is executed, the Contractor shall submit the Affirmative Action Plan/exemption statement to the Public Service Commission of Wisconsin, P.O. Box 7854, Madison, Wisconsin 53707-7854 and the SEO, unless compliance eligibility is current. No extensions of this deadline shall be granted.

Failure to comply with the conditions of this clause may result in the declaration of Contractor ineligibility, the termination of this Agreement, or the withholding of funds.

ARTICLE 9. SMALL BUSINESS AND MINORITY-OWNED BUSINESSES

The Contractor shall make positive efforts to utilize small business and minority-owned business sources of supplies and services. Such efforts should allow these sources the maximum feasible opportunity to compete for contracts or subcontracts to be performed utilizing state or federal funds.

ARTICLE 10. TERMINATION OF AGREEMENT

The SEO may terminate this Agreement at any time with or without cause by delivering written notice to the Contractor by Certified Mail, Return Receipt Requested, not less than 10 days prior to the effective date of termination. The postmark date of the written notice the SEO causes to be delivered to the Contractor by Certified Mail, Return Receipt Requested,

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shall be the effective date of notice of termination. Upon termination, the SEO's liability shall be limited to the actual costs incurred in carrying out the project as of the date of termination plus any termination expenses having prior written approval of the SEO.

The Contractor may terminate this Agreement at any time with or without cause by delivering written notice to the SEO by Certified Mail, Return Receipt Requested, not less than 10 days prior to effective date of termination. The postmark date of the written notice the Contractor causes to be delivered to the SEO by Certified Mail, Return Receipt Requested, shall be the effective date of notice of termination. Upon receipt of termination notice, the Contractor shall make available to the SEO program records, equipment, and any other programmatic materials. In the event the Agreement is terminated by either party, for any reason whatsoever, the Contractor shall refund to the SEO within forty-five (45) days of the effective date of notice of termination any payment made by the SEO to the Contractor which exceeds actual approved costs incurred in carrying out the project as of the date of termination.

ARTICLE 11. TERMINATION FOR NON-APPROPRIATION

The SEO reserves the right to terminate this Agreement in whole or in part without penalty due to non-appropriation of necessary funds by the Legislature.

ARTICLE 12. FAILURE TO PERFORM

The SEO reserves the right to suspend payment of funds if required reports are not provided by the Contractor to the SEO on a timely basis or if performance of contracted activities is not evidenced. The SEO further reserves the right to suspend payment of funds under this Agreement if there are deficiencies related to the required reports or if performance of contracted activities is not evidenced on other contracts between the SEO and the Contractor in whole or in part.

The Contractor's management and financial capability including, but not limited to, audit results and performance may be taken into consideration in any or all future determinations by the SEO and may be a factor in a decision to withhold payment and may be cause for termination of this Agreement.

ARTICLE 13. PUBLICATIONS

The Contractor may publish materials produced under this Agreement subject to the following conditions:

a) All materials produced under this Agreement shall become the property of the Public Service Commission of Wisconsin, State Energy Office, and may be copyrighted in its name. The Contractor reserves a royalty-free, nonexclusive and irrevocable license to reproduce, publish, otherwise use, and to authorize others to use such materials for governmental purposes.

b) The following notation shall be carried on all articles, reports, publications or other documents resulting from this Agreement.

"This (article, report, publication or document) is funded (in whole or in part) by the Public Service Commission of Wisconsin, State Energy Office, under the terms and conditions of this Agreement."

ARTICLE 14. AMENDMENT

This Agreement may be amended at any time by mutual consent of the parties hereto. Amendments shall be documented by written, signed and dated addenda.

ARTICLE 15. SEVERABILITY

If any provision of this Agreement shall be adjudged to be unlawful or contrary to public policy, then that provision shall be deemed null and void and severable from the remaining provisions, and shall in no way affect the validity of this Agreement.

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ARTICLE 16. WAIVER

Failure or delay on the part of either party to exercise any right, power, privilege or remedy hereunder shall not constitute a waiver thereof. A waiver of any default shall not operate as a waiver of any other default or of the same type of default on a future occasion.

ARTICLE 17. FORCE MAJEURE

Either party's performance of any part of this Agreement shall be excused to the extent that it is hindered, delayed or otherwise made impractical by reason of flood, riot, fire, explosion, war, acts or omissions of the other party or any other cause, whether similar or dissimilar to those listed, beyond the reasonable control of that party. If any such event occurs, the non-performing party shall make reasonable efforts to notify the other party of the nature of such condition and the extent of the delay and shall make reasonable, good faith efforts to resume performance as soon as possible.

ARTICLE 18. EXTRA WORK

If the SEO desires to have the Contractor perform work or render services other than provided for by the expressed intent of this Agreement such work shall be considered as Extra Work, subject to written amendment to this Agreement setting forth the nature and scope thereof and the compensation therefor as determined by mutual agreement between the SEO and the Contractor. Work under such amendment shall not proceed unless and until so authorized by the SEO.

FISCAL TERMS AND CONDITIONS

ARTICLE 19. AVAILABILITY OF FUNDS

The appropriation from which payments are to be made is authorized under Sections 16.54 *(federal fund spending authority*).

ARTICLE 20. VARIANCES

Contract variances may be permissible as outlined in ATTACHMENT A. A variance shall not be used to authorize a revision of the amount awarded or a change in the Performance Period. Such changes shall be made by amendment to the Agreement.

ARTICLE 21. LIMITATION ON COSTS

The SEO's contribution to the total cost, both direct and indirect, of performing the tasks under this Agreement shall not exceed **Total Contract Amount ($75,000.00)** for eligible costs (see Budget attached as ATTACHMENT B). Changes to this Agreement that do not affect the Budget total may be made by written agreement of both the SEO and the Contractor.

ARTICLE 22. ELIGIBLE COSTS

Eligible costs are those costs which can be audited and which are directly attributable to contracted activities and identified and approved in the Contract Application.

1. No eligible costs subject to reimbursement by this Agreement may be incurred prior to the execution of this Agreement unless previously approved in writing by the SEO.

2. Costs only as identified in the Budget and described in the Scope of Work are allowed.

3. All methods of charging expenses against this Agreement shall be submitted for review and approval by the SEO.

ARTICLE 23. REIMBURSEMENT OF FUNDS

The Contractor shall return to the SEO or other appropriate governmental agency or entity any funds paid to the Contractor in excess of the allowable eligible costs under this Agreement. If the Contractor fails to return excess funds, the SEO may deduct the appropriate amount from subsequent payments due to the Contractor from the SEO. The SEO also reserves the

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right to recover such funds by any other legal means including litigation if necessary. The Contractor shall indemnify and hold harmless the SEO for all suits, actions, claims and the reasonable attorneys' fees and legal expenses incurring in recovering such funds, irrespective of whether the funds are recovered.

The Contractor shall be responsible for reimbursement to the SEO for any disbursed funds, which are determined by the SEO to have been misused or misappropriated. The SEO may also require reimbursement of funds if the SEO determines that any provision of this Agreement has been violated. Any reimbursement of funds which is required by the SEO, with or without termination, shall be due within forty-five (45) days after giving written notice to the Contractor.

ARTICLE 24. LIMITED USE OF PROGRAM FUNDS

This Agreement is a mutually exclusive Agreement. The Contractor shall not apply funds authorized pursuant to other Program Agreements toward the activities for which funding is authorized by this Agreement nor shall funding authorized by this Agreement be used toward the activities authorized pursuant to other Program Agreements. The word "funds" as used in this Article does not include Program income.

ARTICLE 25. FINANCIAL MANAGEMENT

The Contractor agrees to maintain a financial management system that complies with the rules and regulations required by the Program funding source described in ATTACHMENT A and with standards established by the SEO to assure funds are spent in accordance with law and to assure that accounting records for funds received under this Agreement are sufficiently segregated from other Agreements, programs, and/or projects.

ARTICLE 26. METHOD OF PAYMENT

Payments are to be used exclusively for eligible costs incurred during the Performance Period. The SEO shall make payment to the Contractor upon receipt of a quarterly invoice submitted to the following address:

Fiscal Department
Public Service Commission of Wisconsin
Division of Business and Program Management
610 North Whitney Way
PO Box 7854
Madison, WI 53707-7854

a) Invoices shall reflect eligible costs incurred by approved Budget line item. Invoices shall be accompanied by written documentation of eligible costs.

b) The final **invoice shall be submitted** to the SEO no later than thirty (30) days following termination of this Agreement.

ADMINISTRATIVE TERMS AND CONDITIONS

ARTICLE 27. SINGLE AUDIT REQUIREMENT

The Contractor shall have a certified annual audit performed utilizing Generally Accepted Accounting Principles and Generally Accepted Auditing Standards.

NOTE: The funding source (federal or state) of this Agreement is identified in Attachment B.

Federal Funded Awards:

Governmental Contractors, or their assignees, that **expend** $750,000 or more in a single year from awards which funding originated from Federal Government sources shall comply with the Single Audit Act of 1996, OMB Circular A-133, and the State Single Audit Guidelines issued by the Department of Administration. Audit reports are due to the SEO within 180 days of the close of the fiscal year, unless waived by the SEO.

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Non-profit Contractors, or their assignees, that **expend** $750,000 or more in a single year from awards which funding originated from Federal Government sources shall comply with the Single Audit Act of 1996, OMB Circular A-133 and the State Single Audit Guidelines issued by the Department of Administration. In addition, a separate footnote or schedule shall be included listing all awards which funding originated from State Government sources and the total cash expended under each of those awards for the year under audit. Audit reports are due to the SEO within 180 days of the close of the fiscal year, unless waived by the SEO.

For-profit Contractors, or their assignees, that **expend** $750,000 or more in a single year from awards which funding originated from Federal Government sources shall have a certified annual audit performed utilizing Generally Accepted Accounting Principles, Generally Accepted Auditing Standards and Government Auditing Standards. In addition, a separate footnote or schedule shall be included listing all awards for which funding originated from Federal Government sources and the total cash expended under each of those awards for the year under audit. Audit reports are due to the SEO within 180 days of the close of the fiscal year, unless waived by the SEO.

One (1) copy of the Audit along with the Management Letter shall be submitted to the address listed below. Responses and corrective action to be taken by management shall be included for any findings or comments issued by the auditor.

If the combined total **expended** from all funding originating from Federal Government sources is less than $750,000 in a single year, the Contractor, or its assignee, shall confirm in writing that the above audit requirements are not applicable. This confirmation shall be submitted to the address listed below.

State Funded Awards:

NOTE: *If an audit is required under OMB Circular A-133 as described above, then this section does not apply as State Funded Awards will already be included in that audit.*

Governmental, Non-profit and For-profit Contractors, or their assignees, that **expend** $100,000 or more in a single year from awards for which funding originated from State Government sources shall have a certified annual audit performed utilizing Generally Accepted Accounting Principles, Generally Accepted Auditing Standards and Government Auditing Standards. In addition, a separate footnote or schedule shall be included listing all awards for which funding originated from State Government sources and the total cash expended under each of those awards for the year under audit. Audit reports are due to the SEO within 180 days of the close of the fiscal year, unless waived by the SEO.
One (1) copy of the Audit along with the Management Letter shall be submitted to the address listed below. Responses and corrective action to be taken by management shall be included for any findings or comments issued by the auditor.

If the combined total **expended** from all funding originating from State Government sources is less than $100,000 in a single year, the Contractor, or its assignee, shall confirm in writing that the above audit requirements are not applicable. This confirmation shall be submitted to the address listed below.

Submit To:

Send one copy of the Audit and Management Letter **or** the letter confirming that the audit requirements are not applicable to:

Fiscal Department
Public Service Commission of Wisconsin
Division of Business and Program Management
PO Box 7854
Madison, Wisconsin 53707-7854
DOADOASSingleAuditCoordinator@wisconsin.gov

ARTICLE 28. EXAMINATION OF RECORDS

The SEO, any of its authorized representatives and the U.S. Government shall have access to and the right at any time to examine, audit, excerpt, transcribe and copy on the Contractor's premises any directly pertinent records and computer files of the Contractor involving transactions relating to this Agreement. Similarly, the SEO shall have access at any time to examine, audit, test and analyze any and all physical projects subject to this Agreement. If the material is held in an automated format, the Contractor shall provide copies of these materials in the automated format or such computer file as

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may be requested by the SEO. Such material shall be retained for three years by the Contractor following final payment on the Agreement.

This provision shall also apply in the event of cancellation or termination of this Agreement. The Contractor shall notify the SEO in writing of any planned conversion or destruction of these materials at least 90 days prior to such action. Any charges for copies provided by the Contractor of books, documents, papers, records, computer files or computer printouts shall not exceed the actual cost thereof to the Contractor and shall be reimbursed by the SEO.

The minimum acceptable financial records for the project consist of: 1) Documentation of employee time; 2) Documentation of all equipment, materials, supplies and travel expenses; 3) Inventory records and supporting documentation for allowable equipment purchased to carry out the project scope; 4) Documentation and justification of methodology used in any in-kind contributions; 5) Rationale supporting allocation of space charges; 6) Rationale and documentation of any indirect costs (submitted with initial invoice); 7) Documentation of Agreement Services and Materials; and 8) Any other records which support charges to project funds. The Contractor shall maintain sufficient segregation of project accounting records from other projects or programs.

ARTICLE 29. PERFORMANCE REPORTS

The Contractor shall submit Performance Reports to the SEO on a quarterly basis as long as this Agreement is in effect. The Performance Reports shall detail the uses of the funds received under this Agreement, how funds have been expended and the amounts expended during the preceding fiscal period, until all funds have been expended.

1. Performance Reports shall identify the status of progress of tasks as provided in the Scope of Work.
2. The Final Performance Report shall be submitted no later than 60 days following termination of this Agreement and include;
    a. A summary of the work performed;
    b. A data report in a format that is consistent with SEO standards;
    c. A final financial report and a short narrative of problems and achievements, all of which shall be consistent with any format instructions provided by the SEO.
3. Additional reporting may be required as identified in ATTACHMENT A Scope of Work.

SPECIAL TERMS AND CONDITIONS

ARTICLE 30. COMPETITIVE PROCUREMENT PRACTICES

The Contractor shall utilize State of Wisconsin competitive procurement practices for products and services purchased as a result of this award. Where state and local procurement practices differ, state rules, standards, policies and practices shall take precedence.

ARTICLE 31. REASONABLE COSTS

The Contractor shall control unit costs for products and services procured as a result of this Agreement, to the state average experience.

ARTICLE 32. AUDITS

Contractor shall perform an "Agreed upon Procedures Audit" on request. This audit shall consist of procedures and questions agreed upon by the SEO and the Auditor and shall expand beyond the scope of that provided for under the Wisconsin State Single Audit Guideline requirements.

ARTICLE 33. EQUIPMENT ACCOUNTABILITY

Title to equipment purchased with funds provided under this Agreement shall vest in the Contractor's name, unless otherwise specified by an attachment. Disposition of any equipment shall be in accordance with applicable property disposal procedures.

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ARTICLE 34. PATENT INFRINGEMENT

The Contractor selling to the SEO or State of Wisconsin any articles described herein guarantees the articles were manufactured or produced in accordance with applicable federal labor laws. Further that the sale or use of any articles described herein shall not infringe any United States patent. The Contractor covenants that it shall, at its own expense, defend every suit which shall be brought against the SEO or State of Wisconsin (provided that such Contractor is promptly notified of such suit, and all papers therein are delivered to it) for any alleged infringement of any patent by reason of the sale of use of such articles and agrees that it shall pay all costs, damages, and profits recoverable in any such suit.

ARTICLE 35. PROGRAM INCOME

Program income means gross income received by the Contractor that is directly generated from the use of the Agreement award, including but not limited to repayments of funds that had been previously provided to eligible beneficiaries; interest earned on any or all Agreement funds obtained from the SEO; proceeds derived after the Agreement close out from the disposition of real property acquired with any or all funds provided under this Agreement or interest earned on Program income pending its disposition.

All Program income shall be recorded and used in accordance with the rules and regulations of the Program funding source described herein. If at any time changes in the use of Program income are considered, the Contractor shall submit a plan detailing the proposed uses of Program income to the SEO for approval. Should the Contractor decide following Agreement close out to discontinue using Program income for such purposes, the Contractor shall return the Program income balance and any additional Program income accrued to the SEO by January 31 of the following year.

ARTICLE 36. TRAINING – WORKSHOPS – SEMINARS – EXHIBIT SPACE

If any portion of the funds shall be used to support training, workshops, seminars, exhibit space, etc., the SEO shall receive complimentary registrations and/or exhibit/booth space, if requested.

ARTICLE 37. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION

The Contractor certifies that to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property.

(c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b); and

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in this article, such prospective participant shall attach an explanation to this proposal.

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ATTACHMENT A
SCOPE OF WORK

In the event of conflict between the provisions of the Terms and Conditions and the Scope of Work and Budget, the provisions in the Scope of Work and Budget shall take precedent.

The Village of Weston will replace 410 Village-owned High Pressure Sodium Street Lights with more energy efficient LED Street Lights. The project will save the Village an approximate 193,025 KWh of energy every year after the new light fixtures are installed. In addition to energy savings, the new lights will provide better lighting levels which will improve visibility for vehicles and pedestrians along the busiest corridors in the Village including the area around the St. Clare's Hospital Complex.

Site Specific Deliverables and Milestones:
Clean Energy Investments in Wisconsin Communities

1. Agree to share EPA Portfolio Manager Data with SEO in order to verify savings and EUI reduction.
2. Provide reports with pictures, maintenance savings information, and lessons learned.
3. Report energy savings in spreadsheet provided by SEO.

Additional Deliverables

1. Submit complete documentation/invoices for reimbursement.
2. Comply with and submit timely reports related to the program.
3. Comply with applicable federal, state, and municipal laws, codes, and regulations for work performed under this award.

Funding:
Funding in the amount up to **$75,000.00** is provided using funds granted by the U.S. DOE to cover a portion of project costs as detailed in the budget section below.

Invoicing:
Submit all the required documentation (i.e. invoice for reimbursement, etc.) to the SEO for reimbursement, after project is complete.

Site Visits:
U.S. DOE and its authorized representatives have the right to make site visits at reasonable times to review project accomplishments and installations and to provide technical assistance, if required. Village of Weston must provide reasonable access to facilities, resources, and assistance for the safety and convenience of the government representatives in the performance of their duties. All site visits and evaluations must be performed in a manner that does not unduly interfere with or delay the work.

Period of Performance:
This contract becomes effective on the date it is signed by the SEO and terminates on June 30, 2016.

Publications:
An acknowledgment of Federal support and a disclaimer must appear in the publication of any material, whether copyrighted or not, based on or developed under this project, as follows:

Acknowledgment: "This material is based upon work supported by the Department of Energy under Award Number DE-EE0006222."

Disclaimer: "This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof."

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Reporting Requirements:

QUARTERLY REPORT:
The SEO will ask for quarterly updates during the life of this contract, which will require response. Some information collected will be:

1. Project Development/Status Information.
2. Project planned and unexpected costs.
3. Resiliency benefits and training.
4. Marketing opportunities/ promotions.
5. Lessons learned and continuous improvement efforts.

The timeline for these reports is below:

Reporting Period	**Report Due**
October 1st – December 31st	January 15th
January 1 – March 31st	April 15
April 1—June 15th	July 15th

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ATTACHMENT B
BUDGET

In the event of conflict between the provisions of the Terms and Conditions and the Scope of Work and Budget, the provisions in the Scope of Work and Budget shall take precedent.

Category	**Amount**
1) Personnel, Supplies	**$ 75,000.00**
2) Matching funds	**$ 55,000.00**
TOTAL PROJECT COST	**$130,000.00**

Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.8.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**MICHAEL WODALSKI, DEPUTY DIRECTOR OF PUBLIC WORKS**
ITEM DESCRIPTION:	**RES 2016-005 AMENDING THE VILLAGE'S COMPREHENSIVE OUTDOOR RECREATION PLAN TO INCLUDE A MULTI-USE PATH ON VOLKMAN ST TO CONNECT TO DCE JUNIOR HIGH**
DATE/MTG:	**VILLAGE BOARD OF TRUSTEES; MONDAY, APRIL 4, 2015**
POLICY QUESTION:	Should the Village Board amend the Village's Comprehensive Outdoor Recreation Plan to include the Volkman St Multi-Use Path Project?
RECOMMENDATION TO:	I make a motion to approve the recommendation of the Deputy Director of Public Works to amend the Comprehensive Outdoor Recreation Plan to include the Volkman St. Multi-Use Path.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☐ **Expenditure**	☐ Procedure	☒ Resolution

FISCAL IMPACT ANALYSIS:

☐ Budget Line Item:	
☐ Budget Line Item:	
☐ Budgeted Expenditure:	Would be a Capital Project Expense in 2017
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW:	Village Board passed Resolution 2016-002 in support of the Project on 3/21/16

BACKGROUND:

At the 3/21 Board Meeting Resolution 2016-002 was passed to authorize staff to move forward with the grant application. A stipulation of the grant application is that the project must be included in the Village's Comprehensive Outdoor Recreation Plan (CORP). After looking at the trail map included in the CORP, the map did not identify the proposed segment of the trail that would connect to the Junior High School. As a result, an amendment to the CORP is necessary.

☐ Supplemental Briefer for Agenda Items under Consideration?

☒ Attachments

Resolution, Revised Trail Map for CORP

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VILLAGE OF WESTON, MARATHON COUNTY, WISCONSIN

RESOLUTION NO. 2016-005

A RESOLUTION AMENDING THE VILLAGE OF WESTON COMPREHENSIVE OUTDOOR RECREATION PLAN (CORP) TO INCLUDE A MULTI-USE PATH ALONG VOLKMAN STREET

WHEREAS, the Village of Weston adopted a revised Parks and Recreation Chapter as part of the Village's Comprehensive Plan to serve as the Village's Comprehensive Outdoor Recreation Plan (CORP) on November 10, 2014; and

WHEREAS, pending and potential Park & Recreation grants through the State of Wisconsin depend on having an updated CORP; and

WHEREAS, Section 66.1001(4), Wisconsin Statutes, establishes the required procedure for a local government to amend a comprehensive plan once it has been initially adopted; and

WHEREAS, the Village of Weston has identified a need to include a multi-use path project along Volkman St to connect the D.C. Everest Junior High School to existing and planned paths in the Village of Rothschild along Volkman St; and

WHEREAS, the Village of Weston passed Resolution 2016-002 supporting the Volkman St Multi-Use path project; and

NOW, THEREFORE, BE IT RESOLVED, the Board of Trustees for the Village of Weston hereby recommends amending the existing Comprehensive Outdoor Recreation Plan Map 9-2 to add the Volkman St Multi-Use Path Project

BE IT FURTHER RESOLVED that such amendments included in the Comprehensive Outdoor Recreation Plan will replace the existing version of the CORP until the remainder of the Comprehensive Plan is updated and adopted.

PASSED BY THE BOARD OF TRUSTEES OF THE VILLAGE OF WESTON, at a regular meeting thereof, this 4th day of the month of April, 2016.

VILLAGE OF WESTON, a Municipal Corporation of the State of Wisconsin.

By: _____
BARBARA ERMELING, Village President

ATTEST:

By: _____
SHERRY WEINKAUF, Village Clerk

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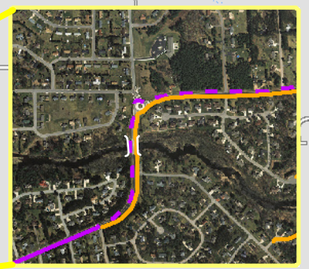
Village of Weston Comprehensive Plan 9-2

Future Parks and Recreational Facilities

Map Data Date: March 29, 2016
Created by the Village of Weston Tech. Services Department

0 1,250 2,500 5,000 Feet



Or

SOUTH SIDE RECREATIONAL OPPORTUNITY AREA

Or

Legend

- Surface Water
- Village of Weston Boundary
- Other Municipalities

Existing Facilities

- Off-Road Trail
- On-Street Connector
- Municipal Buildings
- Public Parks
- Privately Owned Recreational Facilities
- Public School Recreational Facilities

Future Facilities

- L — Canoe/Kayak Launch Site
- NP — Neighborhood Park Site
- CP — Community Park Site
- Off-Road Trail
- On-Street Connector
- Conceptual Snowmobile Connection

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.9.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**MICHAEL WODALSKI; DEPUTY DIRECTOR OF PUBLIC WORKS**
ITEM DESCRIPTION:	**CAPITAL EQUIPMENT PURCHASE: SEWER TELEVISING CAMERA**
DATE/MTG:	**PROPERTY & INFRASTRUCTURE COMMITTEE; MONDAY, APRIL 4, 2016** **VILLAGE BOARD OF TRUSTEES MEETING; MONDAY, APRIL 4, 2016**
POLICY QUESTION:	Should the Property and Infrastructure Committee/Village Board recommend the purchase of a new sewer televising camera from Envirotech Equipment for a total price of $71,586.00?
RECOMMENDATION TO:	I make a motion to recommend the purchase of the sewer televising camera from Envirotech Equipment for a price of $71,586.00 with the amount over budget coming from the sewer hook-up fee account.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Reports
☐ Administrative Order	☐ Policy	☐ Resolution
☒ **Expenditure**	☐ Procedure	
	☐ Proclamation	

FISCAL IMPACT ANALYSIS:

☒ Budget Line Item:	Capital Equipment Fund (Sewer): Page 175
☒ Budget Line Item:	
☒ Budgeted Expenditure:	$50,000
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☒ WI Statue:	State Statute 61.54 Public Works Bidding is not required for equipment purchases.
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW:	The 2016 Capital Equipment Plan was adopted during the 2016 budget process showing the purchase of the Sewer Televising Camera, Finance Committee Meeting 3/23/16

BACKGROUND:

The Capital Equipment Plan was created in 2014 and has been implemented to date. One of the items to be purchased in 2016 is a Sewer Televising Camera. This is a piece of equipment the Village has owned, however the existing camera is approximately 20 years old and has reached the end of its useful life as it is unable to record video.

☒ Supplemental Briefer for Agenda Items under Consideration?

☒ Attachments?

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Village of Weston Wisconsin
PROPERTY & INFRASTRUCTURE COMMITTEE/VILLABE BOARD BRIEFER
Michael Wodalski; Deputy Director of Public Works

Date: Tuesday, March 29, 2016

Re: Capital Equipment Purchase: Sewer Televising Camera

1. Policy Question:

   Should the Property & Infrastructure Committee/Village Board of Trustees recommend the purchase of a new Sewer Televising Camera from Envirotech Equipment for a total price of $71,586.00?

2. Purpose:

   The purpose of purchasing a new Sewer Televising Camera is to once again have the capability to view and record information regarding the interior of sewer pipes. The existing camera has reached the end of its useful life as it is no longer able to televise and record the conditions of our sewer pipes.

3. Background:

   The Village of Weston has televised its sanitary sewer system to assess the condition of the existing pipes. This is important in determining if there are problem areas that may need to be cleaned more regularly. Additionally, televising allows staff to detect issues before they become emergencies. This is also extremely helpful when it comes to follow in regards to sewer backups to ensure the pipes surrounding the backup are clean. The camera has also been used to televise prior to capital projects in order to assess the need for sewer replacement or rehabilitation.

4. Issue Analysis:

   A request was made to two different dealers (Envirotech Equipment and MacQueen Equipment) to request a quote. The Village has had relationships with both of these companies, as our existing camera is an Aries brand that Envirotech sells and services and MacQueen is the company that the Sewer Vac Truck was purchased through as well as who the recent street sweeper was leased through. Staff met with vendors from each organization and went over the Village's needs for a new camera, once the needs were discussed the equipment dealers submitted quotes based off of those machines meeting the Village's needs.

   Some of the important factors for a new camera are: light weight (current camera is ~50 lbs and new cameras are ~25 lbs, this greatly reduces the strain on staff's body as they are lowering and raising these cameras into manholes that are 15+ feet deep), ability to televise larger sewer mains and pan and tile the camera (current camera is only able to televise straight ahead, if a problem is present, there is no way to turn the camera to get a better view of the crack, sag, rock, etc.), ability to record video and integrate with asset management software/gis (current camera had the ability to record to a DVD, but that video then had to be converted to a digital file and that file then had to be attached to the gis software, a fairly cumbersome task), as well as other technological updates over the past 20 years (better picture quality, quick disconnects, etc.

   Staff has a familiarity with Aries equipment (Envirotech) and is also familiar with their customer service and timely response. The two cameras as quoted, are fairly similar and provide the same functions. As a result, the cameras themselves do not appear to have any major advantage over each other, thus staff is most comfortable sticking with the Aries brand from Envirotech.

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5. Fiscal Impact:

   The Village received quotes as shown in the table below:

Dealer (Brand)	Total Price
Envirotech Equipment (Aries)	$71,586.00
MacQueen Equipment (Envirosight	$90,200.00

   Staff recommends moving forward with the purchase of the Aries camera from Envirotech Equipment for $71,586.00.

   The original estimate used for budgeting purposes was a price of $50,000. This price was based strictly on upgrading and replacing the camera. Once we started talking to the dealers, it became apparent that the hose reel as well as other electronics would need to be replaced/upgraded as well. Thus, the difference in price between the estimate and actual price. The $21,586 that this purchase is over the budgeted is recommended to come out of the sewer utility hookup fee account which currently has a balance in excess of $500,000.

6. Statutory Reference:

   Wis. Stat. § 61.54 describes the requirements for public works bidding, in which equipment purchases are not subject to state bidding laws.

7. Prior Review:

   - Finance Committee recommendation to purchase camera with over budget amount coming from hookup fee account
   - Equipment was included in the Capital Equipment Plan

8. Attachments:

   - Quotes from each dealer
   - Equipment Information Sheets
   - Capital Equipment Plan

9. Policy Choices:

   1) To recommend the purchase of the Aries camera from Envirotech Equipment
   2) To recommend the purchase not be made
   3) To recommend the purchase be delayed and have staff investigate other alternatives

10. Recommendation:

    I recommend the purchase of the Aries Sewer Televising Camera from Envirotech Equipment.

11. Legislative Action:

    I move to recommend the purchase of the Aries Sewer Televising Camera from Envirotech Equipment.

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ENVIROTECH equipment

P.O. Box 801
Pewaukee, WI

262-264-0231
800-381-9134
Fax # 262-264-0725

Quote No. 030716-3A

Quotation

Customer

Weston, Village of
Attn: Keith Donner
Weston Municipal Building
5500 Schofield Ave.
Weston, WI 54476

Date: 3/7/2016

Terms: Net 30

Delivery TBD

FOB Destination

Item	Qty	Description	Unit Price	Total
.	1	Aries Pathfinder Camera System Complete Including: Steerable(6) Wheel Drive Camera Transporter with Remote Controlled Electric Camera Lift; Back Up Camera Built Into the Tip Up Connector, Built In Inclination Sensor; Built In 512 Hz Sonde, Built In Ultra Bright LED Lights, 3" Through 5" Rubber Wheels and 4" Carbide Wheels for 6" Through 24" Pipelines	71,586.00	71,586.00
		Pan & Tilt Camera with 40:1 Zoom Capabilities, Built In Wiper Assembly, 360 Continuous Rotation In All Directions, Automatic and Manual Focus and Iris Controls, Starlight Settings, Fast Keys on Camera Controller with Home Centering Feature.		
		System Controller Complete including: Electronics Mounted in Custom Rack Mount Enclosure with Cooling Fan, Video Distribution Amplifier, 19" LCD Color Monitor with Pedestal Mount		
		1,000' of Coaxial Cable Mounted on a Cable Reel with Auto Levelwind, Drop Down Cable Guide, Remote and Local Controls, Mechanical Footage Counter Assembly. Note: Reel Mounted on Stand with Transporter Storage Built In Below.		
		PipeTech Software with Standard and PACP Templates for Recording Video in MPEG Format; Logging Observations, Custom Report Printing, and Video Indexing. Software Loaded on Laptop Computer and Interfaced with Aries Controller System		

Customer Satisfaction
Through Partnerships

Envirotech...

Subtotal	
Sales Tax ()	
Total	

Note: Any and all shipping and sales tax will be added to this invoice.

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ENVIROTECH equipment

P.O. Box 801
Pewaukee, WI

262-264-0231
800-381-9134
Fax # 262-264-0725

Quote No. 030716-3A

Quotation

Customer

Weston, Village of
Attn: Keith Donner
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Weston, WI 54476

Date: 3/7/2016

Terms: Net 30

Delivery TBD

FOB Destination

Item	Qty	Description	Unit Price	Total
		System Accessories Including Inter-Connect Cables, MH Downhole Equipment, Maintenance Items, and Operation and Maintenance Manuals.		
		Notes: EnviroTech Personnel to Assist with System Setup in Customers Existing TV Truck and Complete Training on all Components. Please See Detailed Component List for Greater Information		
		OPTION:		
.	1	Aries Large Line Bolt On Kit for Aries TR3310 Transporter with High Traction 8" Pneumatic Tires for 18" and Larger Pipelines	7,840.00	7,840.00

Customer Satisfaction
Through Partnerships

Envirotech...

Subtotal	$79,426.00
Sales Tax ()	$0.00
Total	$79,426.00

Note: Any and all shipping and sales tax will be added to this invoice.

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VENDOR NAME	MacQueen Equipment Inc.	
MAKE AND MODEL	Rovver X	

Spec #	Description	Qty	Price	Subtotal
1.0	**Price for base unit:**		$72,855.00	$0.00
	Rovver X Includes: RCX90 camera (high-resolution CCD color zoom camera, built-in LED lighting, twin laser diodes for measuring feature width); ROVVER X 130 crawler(steerable with twin high-performance motors and 6-wheel drive, anodized aluminum/stainless steel chassis with pressure indicator, inclination and tilt sensors, location transmitter, rear viewing video camera); Rear Vision Camera, capability to transfer data to included desktop Win Can Vision Report software to generate reports and save data; wheels (6 small rubber, 4 medium rubber, 4 large rubber wheels, 4 medium grease wheels, 4 wheel spacers); VC200 control pendant to operate crawler, reel and camera (daylight viewable touch screen, MPEG-4 video encoding, storage to flash drive or USB Stick, online diagnostics and firmware updates, desk mount); RAX300 automatic motorized cable reel (with footage counter, splash-proof rating, 1000' orange transmission cable) wireless remote control; 25' extension cable with E-Stop			
1.1	**Crawler Options** Use this section to offer crawler options. Number items starting with 1.11, 1.12, etc. Use as many numbers as you need.			
1.11	RX400 Crawler		$53,304.00	$0.00
1.12	RX95 Crawler		$12,740.00	$0.00
1.13	Automated Remote Lift Accessory to raise camera	*	$12,230.00	$0.00
1.14	Large Diameter Carriage Accessory (wheel extensions for inspection of large diameter pipe)	*	$10,192.00	$0.00
1.15	Rovver X SAT 140 Crawler only (additional crawler for SAT system)		$40,768.00	$0.00
1.16	LF2200-FV10 receiver locator with hard carrying case and headphones		$2,600.00	$0.00
1.17	512 Hz external sonde transmitter 10-15' detection		$529.00	$0.00
1.18	512 Hz external sonde transmitter 20-30' detection		$1,011.00	$0.00
1.19	512 Hz external sonde transmitter 40-60' detection		$1,809.00	$0.00
1.20	**Wheel Options** Use this section to offer wheel options. Number items starting with 1.21, 1.22, etc. Use as many numbers as you need.			
1.21	Large diameter grease wheel (each)		$374.00	$0.00
1.22	3.33" diameter small grease wheel for RX95-130 Crawler (each)		$257.00	$0.00
1.23	4.33" diameter medium grease wheel (each)		$327.00	$0.00
1.24	3.33" diameter rubber wheel (each)		$225.00	$0.00
1.25	4.33" diameter wide rubber wheel (each)		$268.00	$0.00
1.26	4.33" diameter super aggressive spike wheel (each)		$582.00	$0.00
1.27	5.31" diameter large rubber wheel (each)		$270.00	$0.00
1.28	Large balloon tires for RX Carriage (each)		$532.00	$0.00
1.29	Wheel bolt kit		$46.00	$0.00
1.30	**Camera Options** Use this section to offer camera options. Number items starting with 1.31, 1.32, etc. Use as many numbers as you need.			
1.31	Rovver "X" rear view Auxiliary Lift camera with LED lamps	*	$4,586.00	$0.00
1.32	Rovver "X" Auxiliary high power LED Lights with reflectors		$3,057.00	$0.00
1.33	DigiSewer side scan camera system for Rovver RX130 and RX400 crawlers. Includes USB adapter Includes WinCan software module for inspection **DOES NOT INCLUDE WIN CAN OFFICE** (will require WinCan software)		$35,525.00	$0.00
1.34	Laser Ring for DigiSewer 3 Camera		$7,134.00	$0.00
1.35	RCX90 pan/tilt/zoom camera (additional camera)		$23,500.00	$0.00
1.36	RAC50 Axial camera		$5,000.00	$0.00
1.40	**Lighting Options** Use this section to offer lighting options. Number items starting with 1.41, 1.42, etc. Use as many numbers as you need.			
1.41	Auxiliary Light RAL 1000 for DigiSewer 3 Camera		$4,076.00	$0.00
1.50	**Control Consoles** Use this section to offer control console options. Number items starting with 1.51, 1.52, etc. Use as many numbers as you need.			
1.51	DCX5000 Desk top controler and CCU for Rovver X (ILO VC200 controler-Requires software and Rack mount Computer to operate Rovver X)		$8,235.00	$0.00
1.52	DCX5000 Desk top controler and CCU for Rovver X (In addition to VC200 controler-Requires software and Rack mount Computer to operate Rovver X)		$20,384.00	$0.00
1.53	DCX5000 Desk top Controller with CCU and 1640' cable reel (ILO VC200 controler and std. 1000' cable			

$72,855 (Base Price)
+ $12,230 (Lift)
+ $529 (512 Hz sonde)
+ $4,586 (rearview lift camera)
= $90,200 Total

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1.53	reel. Requires Software and Rack mount Computer to operate Rovver X System)	$19,558.00	$0.00
1.54	**WinCan 1020 Office Entry Software Package:** Date Collection IM Export/ Draw-Text/ Simple Crack Width/ Deformation Measurement with Photo/ Viewer/Map VX Entry/ Rating Grading	$2,994.00	$0.00
1.55	**WinCan 1030 Truck Advanced Software Package:** Date Collection IM Export/ Draw-Text/ Simple Crack Width/ Deformation Measurement with Photo/ Viewer/Map VX Entry/ Rating Grading/ Win Can Validator/ Sata Transfer/ Control Texgenerator/ Divx-MPEG1 w/o Hardware	$7,764.00	$0.00
1.56	**WinCan 1040 Truck Expert Software Package:** Date Collection IM Export/ Draw-Text/ Mnahole Borehole-Satellite/ Simple Crack Width/ Deformation Measurement with Photo/ Viewer/Map VX Entry/ Rating Grading/ Win Can Validator/ Sata Transfer/ Control Texgenerator/ Divx-MPEG1 w/o Hardware/ MPEG 1-2-4 with HDVideo Creations Including Software Overlay and Encoding	$11,824.00	$0.00
1.57	**WinCan 1050 Manhole/Borehole Package:** Manhole-Borehole/ Lateral-Satellite/ Draw-Test/ Simple Crackwidth/ Win Can Photo Assistant/ Viewer/ Data Collection(IM-Export)/ Map VX Entry/ Rating-Grading/ GIS Analyisi/ RehabilitationPlaining/ Staticistics/ Win Can Validator/ Report Generator/ Win Can Meta DB/ Satellite Maps/ Map Export-GIS Module-ArcGIS Intergration	$6,597.00	$0.00
1.58	**WinCan 1060 Office (Expert) Package:** Data Collection/ Manhole-Borehole/ Lateral-Satellite/ Draw-Test/ Simple Crackwidth- Deformation Measurement with Photos/ Win Can Photo Assistant/ Viewer/ Data Collection(IM-Export)/ Map VX Entry/ Rating-Grading/ Win Can Validator/ Win Can Data Transfer/ Report Generator/ Win Can Mets DB	$5,024.00	$0.00
1.59	**WinCan 1070 Office Analyst Subscription Package:** One license/ Data Collection/ Manhole-Borehole/ Lateral-Satellite/ Draw-Test/ Simple Crack width- Deformation Measurement with Photos/ Win Can Photo Assistant/ Viewer/ Data Collection(IM-Export)/ Map VX Entry/ Rating-Grading/ GIS Analysis/ Rehabilitation Plaining/ Statistics/ Win Can Validator/ Report Generator/ Win Can Meta DB/ GIS Analysis/ Satellite Maps/ Map Export-GIS Module-ArcGIS Integration. **(Price Per Year)**	$2,994.25	$0.00
1.5.10	**WinCan 1071 Truck Analyst Subscription Package:** Includes All Modules in WinCan Expert Mobile **(Price Per Year)**	$2,994.25	$0.00
1.5.11	**WinCan 1010 Protouch For Touch Screen Tablets**	$2,537.00	$0.00
1.5.12	**WinCan VX 5000 Network Office Package: Entry 3 Users**	$7,206.00	$0.00
1.5.13	**WinCan VX 5010 Network Office Package: Entry; Every Additional User > 3**	$2,131.00	$0.00
1.5.14	**WinCan VX 5020 Network Office Package: Office 3 Users**	$12,078.00	$0.00
1.5.15	**WinCan VX 5030 Network Office Package: Office; Every Additional User > 3**	$3,501.00	$0.00
1.5.16	**WinCan VX 5040 Network Analyst Subscription: 3 Users (Price Per Year)**	$7,206.50	$0.00
1.5.17	**WinCan VX 5050 Network Analyst Subscription: User > 3 (Price Per Year)**	$2,131.50	$0.00
1.5.18	**Wincan 1083 Web Hosting (Cloud): Small <100 Gigabyte (Monthly)**	155	
1.5.19	**Wincan 1084 Web Hosting (Cloud): Medium (< 1 Terabyte) (Monthly)**	$425.00	
1.5.20	**Wincan 1085 Web Hosting (Cloud): Big (< 5 Terabyte) (Monthly)**	$875.00	
1.5.21	**WinCan 2010 Data Collection: Section**	$1,522.50	
1.5.22	**WinCan 2020 Data Collection: Manhole**	$1,522.50	
1.5.23	**WinCan 2030 Data Collection: Lateral / Satellite**	$1,522.50	
1.5.24	**WinCan 2090 Data MGMT: Reportgenerator**	$1,522.50	
1.5.25	**WinCan 2110 Data MGMT: Control Textgenerator (Not Possible For Office Version)**	$1,065.75	
1.5.26	**WinCan 2140 Data MGMT: Asset MGMT (Cityworks, Hansen, Maximo, Lucity, Cartegraph, etc.)**	$5,582.50	
1.5.27	**WinCan 2141 Measurment Modules: Inclination (Texgenerator Required)**	$1,979.25	
1.5.28	**WinCan 2040 Measurment Modules: PhotoAssistant**	$3,095.75	
1.5.29	**WinCan 2150 Measurment Modules: Diameter & Deformation**	$1,979.25	
1.5.30	**WinCan 2160 Measurment Modules: 3D**	$5,692.50	
1.5.31	**WinCan 2190 GIS Modules: GIS Truck Module**	$4,110.75	
1.5.32	**WinCan 2200 GIS Modules: GIS Office Module**	$7,612.50	
1.5.33	**WinCan 2210 Scanning Modules: ScanExplorer**	$7,612.50	
1.5.34	**WinCan 2230 Scanning Modules: LaserScan**	$5,024.25	
1.5.35	**WinCan 4000 Hardware: Dongle (Single)**	$304.50	
1.5.36	**WinCan 4010 Hardware: Dongle (Network)**	$629.33	
1.5.37	**WinCan 4020 Hardware: MobileCap**	$888.15	
1.5.38	**WinCan 4030 Hardware: Vitec Board**	$1,116.50	
1.5.39	**WinCan 4050 Hardware: TG09**	$2,233.00	
1.5.40	**WinCan Hardware: Rack Mount Computer**	$2,639.00	
1.5.41	**WinCan Hardware: Dell Laptop w/ Docking Station**	$1,877.75	
1.5.42	**WinCan 6100 V7 & V8 to VX: Mobile**	$6,597.50	
1.5.43	**WinCan 6100 V7 & V8 to VX: Office**	$4,567.50	
1.5.40	Two Day on Site Software Training	$3,393.00	$0.00
1.5.41	Bronze Infinity Plan, Maintains owned software (Annual Maintenance Fee)	$1,522.00	$0.00
1.60	**Cable and Cable Drum Options** Use this section to offer cable and cable drum options. Number items starting with1.61, 1.62, etc. Use as many numbers as you need.		
1.61	RX Sat Lateral Launch upgrade to Rovver X with DCX5000 desk mount controller ad CCU (requires Software and installation)	$92,645.00	$0.00
	nhole roller	$333.00	$0.00

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1.63	Flexible cable guide pulley for manhole bottom	$1,015.00	$0.00
1.64	Tiger Tail guide	$68.00	$0.00
1.70	**Other Crawler Options** Use this section to offer crawler options. Number items starting with 1.71, 1.72, etc. Use as many numbers as you need.		
1.71	Additional Pressurization System with CO2 canister	$356.00	$0.00
1.80	**PERFORMANCE OPTIONS** Use this section to offer performance & extended warranty options. Number items starting with 1.81, 1.82, etc. Use as many numbers as you need.		
1.81	1 Year warranty on Rovver X components		$0.00
1.90	**EXTENDED WARRANTY OPTIONS** Use this section to offer performance/warranty options, number these items starting with 1.91, 1.92, 1.93, etc. (Specify years, miles or hours extended term covers.)		
1.91		Price: $	
1.20	**VENDOR OWNED RENTAL RETURN OR DEMO EQUIPMENT PROGRAM** See Solicitation Special Terms and Conditions. **DEDUCT** cost per Used Hour from the original Contract Price	$15.00	
2.0	**DISCOUNT OFF LIST PRICE FOR RELATED PARTS AND ACCESSORIES** (See Special Terms and Conditions		%
	Price List Date and Number	$	
2.1	**NEW EQUIPMENT RENTAL PROGRAM** If rental programs are available on the new equipment offered, with the option to purchase, list the hourly/weekly/monthly rental rate. Indicate the percent of rental fee paid by the purchaser that will be applied to the purchase price. See Solicitation Special Terms & Conditions.		
	Hourly Rental Rate:	$	
	Weekly Rental Rate:	$	
	Monthly Rental Rate:	$	
	Percent (%) of Rental Fee applied to purchase price:		%
2.2	**Delivery Starting Point (city, state, zip code)**	Saint Paul MN, 55104	
2.3	Price per loaded mile	$5.50	

Price quote for:

Crawler Inspection Camera System

Vendor Name:	**MacQueen Equipment, Inc.**
Contact Person:	**Dan Gage**
Street Address:	**595 Aldine Street**
P.O. Box:	
City, State, Zip	**St. Paul MN 55104**
Phone #:	**651.645.5726**
Toll Free #:	**800.832.6417**
Fax #:	**651.645.6668**
Email Address:	dgage@macqueeneq.com

Spec #	Information Requested	Answer
1.0	**Make & Model**	Envirosight Rovver X
	Crawler:	
	Number of drive wheels/tracks Number of drive motor(s)	6 wheels w/overlapping design (2) 50 watt DC
	Drive mechanism (chain, belt, gear, etc.)	Gear drive
	Does drive mechanism have a clutch	NO
	Internal pressure rating	IP 68
	Pressurization method	CO2 cartridge w/regulator
	Does crawler maintain pressure if camera is removed	YES
	Over/under pressure indicator light	YES
	Can repressurization be accomplished in the field	YES
	Quantity, type & size of tracks/wheels included with base package	Six 3.33" small diameter rubber/ four 4.33" medium diameter rubber/four 5.31" rubber wheels
	Overlapping wheel design to prevent high centering	YES
	Wheel/Track change tool requirement	Quick Change
	Wheel/Track change time requirement	4 wheel change is 2 minutes
	Minimum pipe diameter	6"
	Dimension-crawler only (LxHxW)	12.5 x 5.4" x 3.15"
	Overall length with camera attached	18"
	Weight of crawler	22 lb
	Overall weight crawler with camera attached	25.75.lb
	Material the crawler constructed from	Stainless Steel & Aluminum construction
	Cable connector type to crawler	Stainless steel bayonet connector that will lock with spring pin. Waterproof with positive lock
	Tools required to connect/disconnect crawler from cable	None
	Number of controls required to operate crawler	One pendant control for all crawler, lights, camera zoom
	Direction crawler can operate (example: forward/neutral/reverse)	Control pendant has all functions for crawler, forward/reverse/right/left

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Is crawler steerable	YES
Does crawler have rear vision camera capability	YES
Inclinometer standard	YES
Power requirement (watts/amps/voltage)	50 Watts
Is a Sonde device available	Std

Camera:

Pan & tilt	YES
Pan and tilt control type	Joy stick
Home position control type	Yes with automatic return
Pixels & lines of resolution	380,000 pixels w/420HTV lines of resolution
Zoom (magnification optical & digital)	40:1 (10x optical 4x digital)
Lux rating	1 Lux sensitivity
Construction material	Stainless steel
Lens type	v
Lens field of view (VxHxD)	.025" to infinity/68 degree x 90 degree x 100 degree
Black & white or color	Color
Lighting type	LED light ring w/optional additional lighting
Type of lighting control	infinite adjustment
Field replaceable lights	YES
Focus (auto & manual)	Auto & manual
Connection type	Stainless stele waterproof swivel loc-tite style.
Dimensions (LxHxW)	7x3x3
Camera weight	3.75 lb
Pressurization method	CO2 cartridge, field pressurization capable
Internal pressure rating	IP 68
Over/under pressure indicator light	On Screen Display
Does camera maintain pressure when removed from crawler	YES
Will camera connect to cable w/o crawler and be fully functional	NO
Maximum viewing angle for pan	360
Maximum viewing angle for tilt	135 degree
Camera controller have "home" position function type	Yes, one touch button automatic
Does camera have the ability to view 360 degrees	YES
Field replaceable windshield on camera	YES

Cable:

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Cable length	1000
Cable diameter	.19" diameter
Break strength	1000lbs
Single or multi-conductor	Multi-conductor
Repairable	YES

Cable Reel:

Motorized (yes/no)	YES
Drive type	Motorized utilizing a slip ring design using gold & rhodium housed in an environmentally sealed housing
Automatic pay-out, or pulled by crawler	Auto pay-out
Automatically payed-in	Yes with speed & torque controls
Cable reel level wind system	Auto level wind system
Drum emergency stop switch	Drum has (red) emergency stop button for the operator. Cable drum also has a automatic shutdown if the cable reel is tilted more than 30 degrees
Resettable counter	Yes
Counter-mechanical or electronic	Electronic
Forward/reverse engagement control type (manual or electronic)	Electronic
Speed control type	Pay out and in is controlled by the speed of the crawler
Type of torque control	Button on control pendant
Overheat sensor	YES
Cable reel capacity	1000'
Portable	YES
Dimensions (LxHxW)	21" x 21" x 14"
Power requirements	2 amps

Central Control Unit:

Power requirements	4 amps
Circuit protection type	Fuse & circuit breakers
Video in/out	Video BNC connector & RS232 for text and footage data to software
Type of text generator	On screen text & information fields. Includes help directory and will store data for 30 days after the power is turned off.
Keyboard	YES/ On screen of pendant
Desktop camera control	YES
Number of video text generators on-screen	7
Video display of footage, time and date	YES
Warranty	1 Year

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ARIES
INDUSTRIES, INC.

PATHFINDER SERIES

Pipeline Inspection Systems

See what you're missing.

Versatile and powerful transporters

Whether you choose the Pathfinder or the Pathfinder XL, you will inspect your pipelines with the most versatile and technologically-advanced transporters available.

The Pathfinder series of sewer inspection equipment offers feature-packed transporters complete with camera lift, rear-facing camera and a powerful, six-wheel, steerable drive to navigate the toughest obstacles quickly and efficiently.

Pathfinder XL
(8" Relined and Larger)

Pathfinder
(6" Relined -24")

CLEAR IMAGES

- High-resolution camera module and high-intensity lighting provide picture clarity
- Adjustable camera lifts center lens in pipe for total pipe vision

EASY OPERATIONS

- Six wheel drive system designed to match pipe contours
- Operates in power forward, power reverse, steer-left, steer-right and free wheel mode

PRODUCTIVITY

- Separate electronics and motor drive enclosures are sealed and pressurized to prevent moisture intrusion
- Superior performance in navigating deteriorating and debris-filled pipes

U.S.A.

www.ariesindustries.com | (800) 234-7205

PATHFINDER SERIES

Pipeline Inspection Systems

See what you're missing.

Pathfinder XL Features:

The Aries TR3400 Pathfinder XL is a steerable, self-propelled transporter for relined 8" and larger lines.

- Operates on Aries Pathfinder Portable PR3300 Reel or any Aries mainline system
- Continuous duty drive motors with auto release clutches
- Standard electric lift assembly for operation 8" and above pipelines
- Six-wheeled transporter assembly
- 3 tire sizes standard for operation in 8" to 30" sewer lines
- Single fastener mounting for fast tire size changes
- Integral 512Hz sonde/locating beacon
- Integral rear-viewing camera and LED lighting
- Detachable auxiliary light head (optional)
- Large diameter pipe kit for operation in up to 60" lines (optional)
- Rear-tip cable connection with secure twist-lock mechanism
- Rear-viewing camera allows for quick retrieval up to 200' per minute

Pathfinder Features:

The Aries TR3300 Pathfinder is a steerable, self-propelled transporter for relined 6" to 24" lines.

- Incorporates a 6-wheel drive system designed to match pipe contour regardless of size
- All gear-driven drive train powered by two independent, brushless motors
- Operates in power forward, power reverse, steer-left, steer-right and free wheel modes
- Compact design for superior maneuverability
- Continuous duty drive motors
- 3 tire sizes standard for operation in 6" relined to 24" sewer lines
- Waterproof gel-filled circuit board cavity
- Manual camera-lifting mechanism provides easy transitions from small to large pipe inspections
- Auxiliary high power detachable light head
- 512Hz detachable locating beacon
- Single fastener mounting for fast tire size changes
- Rear-tip cable connection with secure twist-lock mechanism
- Rear-viewing camera allows for quick retrieval up to 200' per minute

ARIES
INDUSTRIES, INC.

Corporate Office
550 Elizabeth Street
Waukesha, WI 53186
Toll Free: 800-234-7205
Phone: 262-896-7205
Fax: 262-896-7099

Western Regional
5748 E. Shields Avenue, Suite 101
Fresno, CA 93727
Toll Free: 800-671-0383
Phone: 559-291-0383
Fax: 559-291-0463

Southern Regional
1441 SW 10th Avenue, Unit 202
Pompano Beach, FL 33069
Toll Free: 800-327-4346
Phone: 954-785-5540
Fax: 954-785-5014

Aries Canada Ltd.
1081 Meyerside Drive, Units 1&2
Mississauga, Ontario
Canada L5T-1M4
Toll Free: 877-730-7010
Phone: 905-795-7913
Fax: 905-795-7905

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ROVVER X

The Power of One.

ROVVER X is the one system that lets you do everything—control inspections, view and record digital video, log observations, generate reports, and link directly to asset-management software. All this capability is packed into a simple three-piece layout, with no CCU or other components to clutter your truck.

Though remarkably self-contained, ROVVER X is built on an expandable digital backbone. Not only can you add side-scanning and laser profiling, you can view data from onboard sensors, automate tasks with macros, and measure defects on-screen. And future capabilities are limitless—ROVVER X's firmware updates automatically to the latest features, and its architecture is ready for any accessory—even ones that don't exist yet.

Advanced technology aside, ROVVER X is built for the rigors of sewer inspection. Twelve wheel options—plus camera lift, carriage and illumination accessories—mean ROVVER X transforms in seconds to inspect pipelines 6–72 inches diameter. Its six-wheel drive with proportional steering navigates past obstacles, and overlapping wheels climb offsets better than tracks. Powerful motors and a geared drive train maximize range and pivot capability, even with carriage and pneumatic tires installed.

Ultimately, however, reliability and productivity have made ROVVER the number one crawler brand in the world. ROVVER X continues this tradition with unsurpassed video resolution and 50% more illumination, leaving no detail hidden. Its powerful reel monitors cable tension optically to prevent slack and minimize resistance, allowing one-man operation. And self-diagnostic capabilities, plus access to operating history, only enhance the uptime of the one crawler that already leads the industry.

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Responsive Controls

Control multiple camera and crawler functions at once using proportional joysticks. • View live and recorded video directly on control pendant. • Enhance productivity with custom controls. • Use macros to automate common inspection tasks like joint scanning. • Access specialized functions using intuitive touchscreen interface.

Recording

Capture digital video and images to onboard memory. • Export video, images and data using USB media or network port. • Review inspections directly on screen.


observation entry

Reporting

Enter observations on touchscreen interface. • Use standard defect catalogs (PACP, WRc), or custom ones. • Generate simple reports, or transfer data to WinCan for full reporting and asset management. • Overlay text on video without external hardware. • View system status and lifetime operating history.


manhole-to-manhole report


incline report


WinCan export


system status

Import data directly to WinCan (now or any time in the future) and benefit from: database capabilities (filtering/querying) • full PACP compliance • GIS integration • advanced technology modules (laser, DigiSewer, 3D) • enhanced reporting • support for network installation and enterprise databases (Oracle, SQL) • links to municipal applications (ArcGIS, Hansen, Maximo, CityWorks, GBA, Cartegraph)

ROVVERX

Remote Control

Included standard with every system, this wireless remote lets you control camera, crawler, lift and reel from the palm of your hand.

Envirosight

Visibility

Capture the best video resolution possible from an inspection crawler. • Illuminate distant targets with 50% brighter LED lighting. • Boost illumination in large pipelines with auxiliary lamp. • See above flow with high-mount rear-view camera, plus additional rear-view camera on auxiliary lamp.

Adaptability

Remotely adjust camera height over 7" range with lift accessory. • Address pipe of any size, material and condition with 12 wheel options. • Extend height and wheelbase with carriage accessory to inspect pipelines up to 72" diameter.

Maneuverability

Control any number of camera and crawler functions simultaneously. • Pivot in place with zero-degree turn capability. • Use macros to automate common inspection tasks (like joint scanning). • Avoid high-centering on offsets and debris with overlapping wheels.

Range

Crawl up to 1000' with standard cable reel. • Overcome tough obstacles with unmatched maneuverability and power. • Prevent tangles and maximize crawl range with optical cable tension control. • Control reel direction, force, speed and operating mode directly from operator pendant.

Measurement

Track pipe grade with inclinometer. • Monitor temperature and pressure with onboard sensors. • Locate crawler using built-in sonde transmitter. • Easily add side-scanning and laser profiling capability. • Size defects with twin laser dots. • Avoid flips with warnings from integral roll sensor.

Field-Readiness

Inspect from truck, pickup or ATV using simple three-component system layout with no CCU. • Run off generator or inverter with low power requirement. • Inspect pipelines 6–72" diameter with single, reconfigurable crawler design. • Store 1000' of strong, lightweight cable on compact, automated reel. • Transport system in compact, weatherproof enclosure.

Specifications subject

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Complete Capability

With a selection of 12 wheel types—plus a detachable automatic lift, carriage and auxiliary lamp—ROVVER X is the only single system that lets you inspect pipelines 6–72" diameter. With single-screw attachment of wheels, you'll be ready in record time to inspect any combination of pipe size, material and condition. (For wheel chart, see reverse panel.)

24" and up *15"* *12"* *8"* *6"*

Power to Maneuver

ROVVER was the first inspection crawler to introduce a compact, steerable 6-wheel drive, giving operators the agility to navigate past obstacles that stop other crawlers.

ROVVER X adds to that legacy with CAN-bus controls, which allow you to perform multiple functions concurrently. Now you can steer while panning the camera and adjusting camera lift height. Proportional joysticks give you fine control over speed and direction, and also let you pivot in place (perform zero-degree turns).

Many Ways to Inspect

- **DigiSewer.** Generate side-scan images that capture every square inch of a pipe's interior surface. With DigiSewer, you can perform detailed inspection three times faster than with CCTV—all at a price point and learning curve anyone can manage. Inspection results are optimized for rapid transmission (3000 ft/GB) and analysis. Attach the DigiSewer laser ring, and you can also scan for pipe deformity.
- **Laser.** ROVVER X's twin lasers project measurement dots 2" apart, helping you size features and defects. What's more, when you pan the lasers 360 degrees, WinCan's laser module automatically determines the ovality of the pipe at that point.

For full laser scanning, connect the ROVVER X laser accessory or the laser-equipped DigiSewer side-scan camera. WinCan's laser module will track ovality along the full length of the pipe and generate a graphical report.

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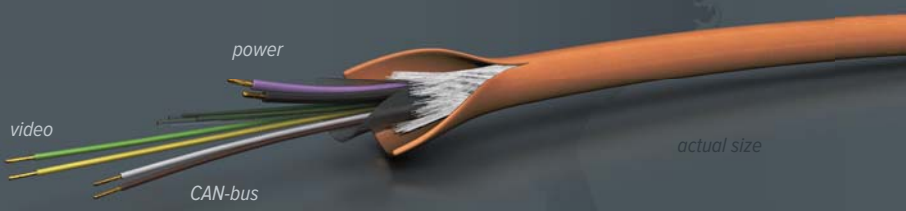
Onboard Intelligence

ROVVER X uses CAN-bus, the same control architecture built into modern automobiles. This gives ROVVER X capabilities not found anywhere else:

Automatic Updates: When connected wirelessly or via LAN, the pendant updates its firmware automatically, ensuring the latest features and maximum reliability.

Concurrent Control: High-bandwidth communications mean you can control any number of camera, crawler and accessory functions simultaneously.



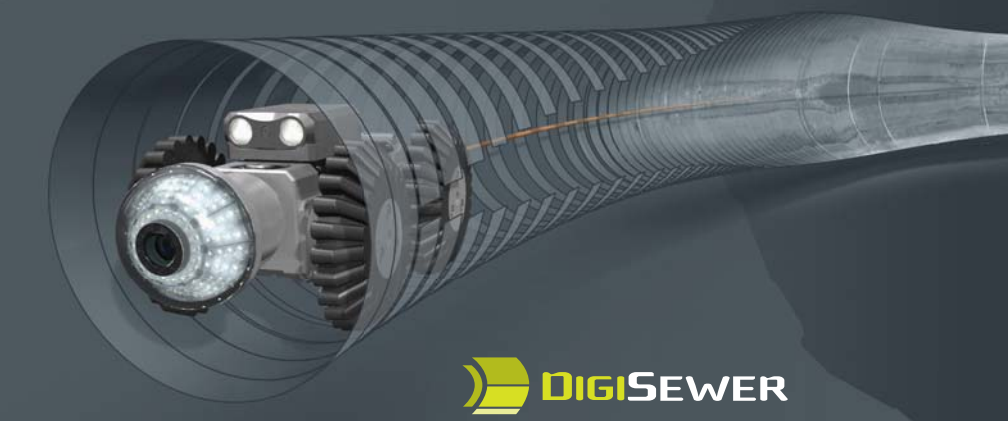
Agility & Uptime: With only six conductors, lightweight ROVVER X cable is easy to pull long distances, and also easy to field-reterminate. Kevlar gives it a 1000-lb. break strength, and a tough jacket maximizes abrasion resistance. CAN-bus architecture supports thousands of functions over a single wire pair.

Future-Readiness: Technology evolves, so ROVVER X's capability isn't hard-wired. Add any number of sensors and end effectors, even ones that don't exist yet.

Information: Access real-time system information using intuitive touchscreen controls—from real-time sensor data to lifetime service and operating history.

Self-Diagnostics: Connect your system to a PC running ROVVER X Studio, and our technicians can log in to read error codes and perform diagnostic tests.

To perform side-scanning, all you need is a DigiSewer camera (shown here) connected to your crawler, and WinCan software with the Scan Explorer module.



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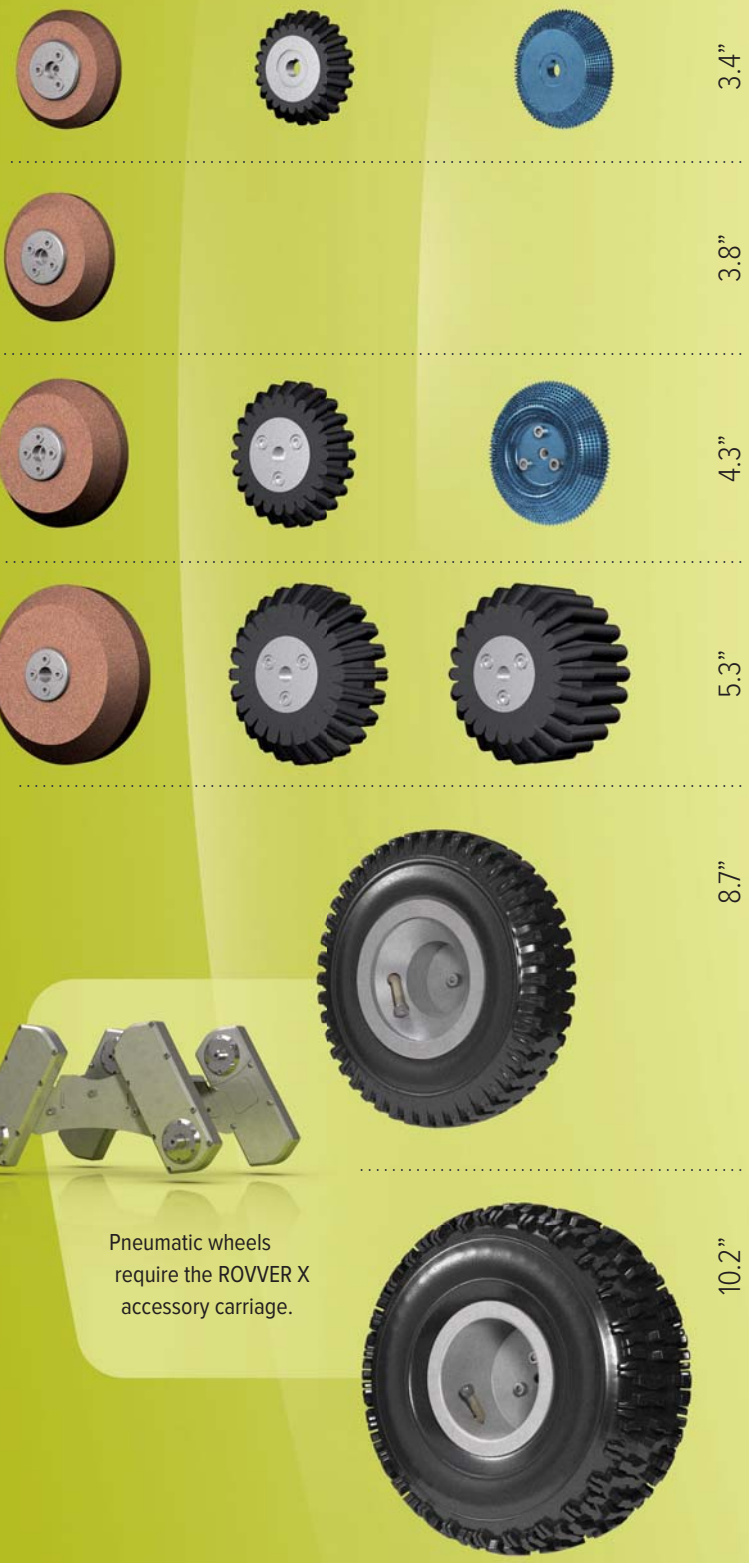
Wheels

ROVVER X wheel options help you address any combination of pipeline diameter, material and condition. With single-screw attachment, wheels swap out in seconds, and keyed axles ensure positive traction.



Pneumatic wheels require the ROVVER X accessory carriage.

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Specifications

system

ratings . . . . . CE, NRTL
power . . . . . 120-240 Vac, 60 Hz
viewing capability . . . . . pipelines 6–72" diameter

camera (RCX90)

imager . . . . . color ¼" CCD
resolution . . . . . 720 × 576 pixels
zoom lens . . . . . 120× (10× optical, 12× digital)
pressure rating . . . . . 1 bar
features . . . . . auto shutter; auto/manual focus
illumination . . dimmable shadowless 40-LED array
articulation . . . . . ±145 deg tilt; infinite pan
measurement . . . . . twin laser diodes
sensing . . . temperature, pressure, pan/tilt angles
size . . . . . 6.6" × 3.1" × 2.8" (168 × 81 × 72 mm)
weight . . . . . 3.3 lb (1.5 kg)
materials . . . . . aluminum, stainless steel

crawler (RX130)

wheels 6
turn radius . . . . . down to 0.0"
camera . . . color rear-view w/ high-lux tri-LED lamp
sensors . . . . . pitch, roll, temperature, pressure
pressure rating . . . . . 1 bar
size . . . . . 12.2" × 4.4" × 3.2" (310 × 111 × 90 mm)
weight . . . . . 13.2 lb (6 kg)
materials . . . . . aluminum, stainless steel
sonde transmitter . . . . . 33 kHz / 512 Hz

control pendant (VC200)

controls . . twin proportional joysticks; push-button controls *(power, lamp intensity, camera lift, zoom, focus, reel mode, pull force, crawl speed/direction)*; 10 soft keys; touchscreen
touchscreen . . . . . 8.4" color (800×600 pixels)
video capture MPEG-4 (H.256)
image capture . . . . . JPEG
storage . . . . . external USB; internal flash (64 GB)
connectivity . . . . . Ethernet
size . . . . . 13.5" × 9.3" × 3" (342 × 236 × 75 mm)
weight . . . . . 4.4 lb (2 kg)
firmware . . . . . VisionControl (auto-updating)
bundled software . . . . . VisionReport

axial auxiliary lamp (optional)

lamps . . . . . four (4) hi-lux tri-LED lamps
dimensions . . 4.6" × 5.2" × 5.2" (117 × 132 × 132 mm)
materials . . . . . aluminum, stainless steel

cable reel (RAX300)

cable length . . . . . 1000' (300 m)
cable diameter . . . . . ¼" (6.5 mm)
cable weight . . . . . 0.03 lb/ft
cable strength . . . . . 1000 lb
cable conductors 6
controls (local) . . . . . power, emergency stop
controls (via pendant) . . . . . auto/manual, speed, forward/reverse, pull strength
sensors . . . . . tension, tilt
size . . . . 24.2" × 12.4" × 19.3" (620 × 315 × 490 mm)
weight . . . . . 123.5 lb (56 kg)
connections . . . . pendant, service port, video in/out

camera lift (optional)

lift range . . . . . 3.1–10.2" (132–312)
materials . . . . . aluminum, stainless steel

carriage (optional)

wheelbase (width/length) . . . 14.5"/12.2" (368/310 mm)
weight . . . . . 34.2 lb (15.5 kg)
materials . . . . . aluminum, stainless steel

auxiliary lamp/rear camera (optional)

forward illumination . . . . . twin hi-lux tri-LED lamps
camera . . . color rear-view w/ high-lux tri-LED lamp
sonde transmitter . . . . . 33 kHz / 512 Hz
materials . . . . . aluminum, stainless steel

basic system

- RX130 crawler body
- RCX90 camera head
- RAX300 reel with 1000' cable
- VC200 control pendant
- VisionReport software
- wireless remote control
- small rubber wheels (6)
- medium rubber wheels (4)
- medium grease wheels (4)
- large rubber wheels (4)
- wheel spacers (4)
- crawler body transport case
- camera head transport case
- tools (wrenches, pressure kit)

optional accessories

- laser profiler
- DigiSewer side-scan camera
- remote camera lift
- large-pipe carriage
- auxiliary lamp/rear-view camera
- desktop mount for pendant
- USB media for pendant
- wheel sets (see chart on flap)
- cable management accessories
- lowering devices
- WinCan observation and asset management software
- other accessories

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Envirosight custom inspection trucks, vans, trailers and enclosures make field inspection with your ROVVER X even easier and more productive.

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VILLAGE OF WESTON
2016 CIP BUDGET REQUEST
AND 2017 FINANCIAL PLAN
PROGRAM COMMENTS

Department/Office: Finance	**Budget:** Capital Equipment Fund
Program: Capital Projects Funds	**Submitted by:** Keith Donner/John Jacobs

UTILITY FUNDS (WATER, SEWER, & STORMWATER) - CAPITAL IMPROVEMENTS FUND
2016 Capital Improvements Program (CIP) Budget – 2017 Financial Plan

	2014 Actual	2015 Budget	2015 Estimate	2016 Proposed Budget	2017 Financial Plan
Fund Balance, January 1	$ -	$ -	$ -	$ -	$ -
REVENUES					
Fund Balance - Water Utility	$ 26,046	$ 4,700	$ 6,755	$1,358,755	$ 34,755
Fund Balance - Sewer Utility	-	550,000	-	610,000	-
Fund Balance - Stormwater Utility	-	-	-	5,000	-
Total Revenues	$ 26,046	$ 554,700	$ 6,755	$1,973,755	$ 34,755
EXPENDITURES					
Water - SCADA Equipment	$ -	$ -	$ -	$ -	$ -
Water - Furniture & Equipment	-	-	-	-	-
Water - Replace Excavator #23	-	4,700	6,755	6,755	6,755
Water - Power Valve Turner	-	-	-	40,000	-
Sewer - Magnetic Manhole Lifter	-	-	-	8,000	-
Sewer - Sewer Televising Camera	-	-	-	50,000	-
Water/Sewer - Utility Van Replacement	26,046	-	-	22,000	28,000
Design - Ross Ave. Lift Station	-	60,000	-	-	-
Design - Mesker/Colleen Lift Station	-	40,000	-	-	-
Construction - Ross Ave. Lift Station	-	200,000	-	300,000	-
Construction - Mesker/Colleen Lift Station	-	250,000	-	230,000	-
Design Well #7 - Camp Phillips Road	-	-	-	100,000	-
Ridgeview Subdivision Connection to E. Everest	-	-	-	17,000	-
Automated Meter Reading - Water Utility	-	-	-	1,200,000	-
Total Expenditures	$ 26,046	$ 554,700	$ 6,755	$1,973,755	$ 34,755
Excess Revenues Over (Under) Expenditures	$ -	$ -	$ -	$ -	$ -
Fund Balance, December 31	$ -	$ -	$ -	$ -	$ -

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VILLAGE OF WESTON
2016 Operating Budget - 2017 Financial Plan
ENTERPRISE FUNDS - Budget Summary

Fund Name	2014 Actual	2015 Amended Budget	2015 Estimate	2016 Proposed Budget	2017 Financial Plan
NET ASSETS BALANCES - including Infrastructure					
Water Utility (Fund 60)					
Net Assets, January 1st	$ 23,816,805	$ 24,023,328	$ 24,023,328	$ 23,960,806	$ 23,722,766
Revenues	2,302,472	2,249,585	2,174,815	2,156,956	2,167,956
Expenses	(2,095,949)	(2,438,663)	(2,237,337)	(2,394,996)	(2,296,206)
Net Assets, December 31st	$ 24,023,328	$ 23,834,250	$ 23,960,806	$ 23,722,766	$ 23,594,516
Sewer Utility (Fund 61)					
Net Assets, January 1st	$ 25,508,219	$ 25,889,922	$ 25,889,922	$ 26,010,899	$ 26,064,313
Revenues	2,216,889	1,968,900	2,104,639	2,234,138	2,443,638
Expenses	(1,835,186)	(2,007,072)	(1,983,662)	(2,180,724)	(2,286,259)
Net Assets, December 31st	$ 25,889,922	$ 25,851,750	$ 26,010,899	$ 26,064,313	$ 26,221,692
Stormwater Utility (Fund 63)					
Net Assets, January 1st	$ 9,281,874	$ 9,353,771	$ 9,353,771	$ 9,372,749	$ 9,436,754
Revenues	658,596	605,224	619,835	644,642	644,125
Expenses	(586,699)	(579,007)	(600,857)	(580,637)	(570,524)
Net Assets, December 31st	$ 9,353,771	$ 9,379,988	$ 9,372,749	$ 9,436,754	$ 9,510,355
GRAND TOTAL					
Net Assets, January 1st	$ 58,606,898	$ 59,267,021	$ 59,267,021	$ 59,344,454	$ 59,223,833
Revenues	5,177,957	4,823,709	4,899,289	5,035,736	5,255,719
Expenses	(4,517,834)	(5,024,742)	(4,821,856)	(5,156,357)	(5,152,989)
Net Assets, December 31st	$ 59,267,021	$ 59,065,988	$ 59,344,454	$ 59,223,833	$ 59,326,563
UNRESTRICTED NET ASSETS BALANCES - excluding Infrastructure					
Water Utility (Fund 60)					
Unrestricted Net Assets, Jan. 1st		$ 3,928,680	$ 3,928,680	$ 3,866,158	$ 3,628,118
Revenues		2,249,585	2,174,815	2,156,956	2,167,956
Expenses		(2,438,663)	(2,237,337)	(2,394,996)	(2,296,206)
Unrestricted Net Assets, Dec. 31st		$ 3,739,602	$ 3,866,158	$ 3,628,118	$ 3,499,868
Sewer Utility (Fund 61)					
Unrestricted Net Assets, Jan. 1st		$ 6,718,296	$ 6,718,296	$ 6,839,273	$ 6,892,687
Revenues		1,968,900	2,104,639	2,234,138	2,443,638
Expenses		(2,007,072)	(1,983,662)	(2,180,724)	(2,286,259)
Unrestricted Net Assets, Dec. 31st		$ 6,680,124	$ 6,839,273	$ 6,892,687	$ 7,050,066
Stormwater Utility (Fund 63)					
Unrestricted Net Assets (Deficit), Jan. 1st		$ (142,503)	$ (142,503)	$ (123,525)	$ (59,520)
Revenues		605,224	619,835	644,642	644,125
Expenses		(579,007)	(600,857)	(580,637)	(570,524)
Unrestricted Net Assets, (Deficit), Dec. 31st		$ (116,286)	$ (123,525)	$ (59,520)	$ 14,081
GRAND TOTAL					
Unrestricted Net Assets, Jan. 1st		$ 10,504,473	$ 10,504,473	$ 10,581,906	$ 10,461,285
Revenues		4,823,709	4,899,289	5,035,736	5,255,719
Expenses		(5,024,742)	(4,821,856)	(5,156,357)	(5,152,989)
Unrestricted Net Assets, Dec. 31st		$ 10,303,440	$ 10,581,906	$ 10,461,285	$ 10,564,015

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Village of Weston Street, Utility, Parks and Village Share of SAFER Capital Equipment Replacement Schedule
Financing of Equipment Cash Flows Up To 2020 Purchases

	Funding Source	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Trade In / Sale Value	Notes
2014 Purchases														
Plow Truck 10 (5-yr Finance)	Capital Equipment	$ 41,678.20	$ 41,678.20	$ 41,678.20	$ 41,678.20	$ 41,678.20	$ -	$ -					$ 24,671.50	Auctioned
New End Loader #32 (3-Yr Lease in Arrears)	Ref & Recy Fund	$ -	$ 64,632.06	$ 64,632.06	$ 64,632.06	$ -	$ -	$ -						
Wing/Plow and Broom for New End Loader (3-yr in Arrears)	Capital Equipment	$ -	$ 16,158.02	$ 16,158.02	$ 16,158.02	$ -	$ -	$ -						
Utility Van 88	Sewer & Water	$ 26,046.00	$ -	$ -	$ -	$ -	$ -	$ -					$ 11,000.00	Trade-in
Portable Hoist System	Capital Equipment	$ 28,575.00	$ -	$ -	$ -	$ -	$ -	$ -						
Parks Pickup 122 with Power Liftgate and Front Plow	Capital Equipment	$ 32,121.00	$ -	$ -	$ -	$ -	$ -	$ -					$ 3,000.00	Trade-in
Blower Attachment for Skidsteer	Capital Equipment	$ 7,300.00	$ -	$ -	$ -	$ -	$ -	$ -					$ 3,118.85	Tractor
Boom Truck	Capital Equipment												$ 3,750.00	Trade-in
2014 Trade In/Equipment Sales	Capital Equipment	$ (34,540.35)												
2014 Trade In/Equipment Sales	Ref & Recy Fund	$ -												
2014 Trade In/Equipment Sales	Sewer & Water	$ (11,000.00)												
2015 Purchases														
Plow Truck 9 (5-yr Finance)	Capital Equipment		$ 40,845.59	$ 40,845.59	$ 40,845.59	$ 40,845.59	$ 40,845.59	$ -					$ 11,500.00	Auctioned
Pickup Truck 59	Capital Equipment		$ 32,913.00	$ -	$ -	$ -	$ -	$ -					$ 500.00	Auctioned
Dump Truck 25 (5-Yr Finance R&R Fund)	Ref & Recy Fund		$ 33,908.53	$ 33,908.53	$ 33,908.53	$ 33,908.53	$ 33,908.53	$ -					$ 14,000.00	Auctioned
Ball Diamond Machine	Capital Equipment		$ 22,768.00	$ -	$ -	$ -	$ -	$ -					$ 7,573.00	Traded-In
Excavator 23 (5-yr in arrears split 50%R&R, 40% CEF, 10%S/W)	RR, CEF, S&W		$ -	$ 67,552.00	$ 67,552.00	$ 67,552.00	$ 67,552.00	$ 67,552.00					$ 25,000.00	Offered
Street Sweeper (5-yr buy back program)	Capital Equipment		$ 35,271.01	$ 35,271.01	$ 35,271.01	$ 35,271.01	$ 35,271.01	$ -					$ 60,000.00	Sold
New End Loader #32 (3-Yr Lease in Arrears)	Capital Equipment		$ -	$ -	$ -	$ -	$ -	$ -					$ 20,410.23	Auctioned
SAFER - Medic-11	Capital Equipment		$ 141,839.00											
2015 Trade In/Equipment Sales	Capital Equipment		$ (138,983.23)											
2015 Trade In/Equipment Sales	Ref & Recy Fund		$ -											
2015 Trade In/Equipment Sales	Sewer & Water		$ -											
2016 Purchases														
Plow Truck 60 (5-yr Finance)	Capital Equipment			$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00					$ -	
Snow Blower to replace 1957 Snow Blower (3-yr finance)	Capital Equipment			$ 51,000.00	$ 51,000.00	$ 51,000.00	$ -	$ -					$ 1,000.00	
Parks Mower #143 (11' mower)	Capital Equipment			$ 37,889.00	$ -	$ -	$ -	$ -					$ 13,096.00	
Mini Excavator (5-yr in arrears)	CE, Sew, Wat, Stm			Paid for out of Operating Budget by each of the 4 funds									$ -	
Staff Vehicle (Conferences, Meetings, etc.)	Capital Equipment			$ 28,000.00	$ -	$ -	$ -	$ -					$ 3,000.00	
Magnetic Manhole Lifter	Sewer			$ 8,000.00	$ -	$ -	$ -	$ -					$ -	
Power Valve Turner	Water			$ 40,000.00	$ -	$ -	$ -	$ -					$ -	
Sewer Televising Camera	Sewer			$ 50,000.00	$ -	$ -	$ -	$ -					$ -	
Utility Van B	Sewer & Water			$ 28,000.00	$ -	$ -	$ -	$ -					$ 10,000.00	
SAFER - Rescue-21 (R-21 & E-22) (6-yr finance)	Capital Equipment			$ 73,199.00	$ 73,199.00	$ 73,199.00	$ 73,199.00	$ 73,199.00	$ 73,199.00				$ -	
SAFER - Car-21	Capital Equipment			$ 26,352.00									$ -	
SAFER - Fire Inspection Vehicle	Capital Equipment			$ 16,892.00									$ -	
SAFER - Medic-23 (IFT) (3-yr finance)	Capital Equipment			$ 33,784.00	$ 33,784.00	$ 33,784.00							$ -	
SAFER - Computer Server Upgrade	Capital Equipment			$ 16,892.00									$ -	
SAFER - Turnout Gear	Capital Equipment			$ 11,149.00									$ -	
2016 Trade In/Equipment Sales	Capital Equipment			$ (17,096.00)										
2016 Trade In/Equipment Sales	Ref & Recy Fund			$ -										
2016 Trade In/Equipment Sales	Sewer & Water			$ (10,000.00)										
2016 Trade In/Equipment Sales SAFER	Capital Equipment			$ -										
2017 Purchases														
Plow Truck 17 (5-yr Finance) (Just Truck Chassis)	Capital Equipment				$ 28,000.00	$ 28,000.00	$ 28,000.00	$ 28,000.00	$ 28,000.00				$ 10,000.00	
Utility Van C	Sewer & Water				$ 28,000.00	$ -	$ -	$ -	$ -				$ 10,000.00	
Parks Mower 115 (72" mower)	Capital Equipment				$ 25,000.00	$ -	$ -	$ -					$ 6,000.00	
Parks Walk Behind Mower 142	Capital Equipment				$ 5,500.00	$ -	$ -	$ -					$ 500.00	
Multi-Purpose Mower/Blower (#113) 3-yr finance	Capital Equipment				$ 40,000.00	$ 40,000.00	$ 40,000.00	$ -					$ 8,000.00	
SAFER - Station 2 update (2-yr finance)	Capital Equipment				$ 27,028.00	$ 27,027.00								
SAFER - Chief's Car (2 yr finance)	Capital Equipment				$ 20,271.00	$ 20,270.00								
SAFER - Deputy Chief's Car (2 yr finance)	Capital Equipment				$ 16,892.00	$ 16,892.00								
SAFER - Medical Equipment (3 yr finance)	Capital Equipment				$ 23,897.00	$ 23,897.00	$ 23,897.00							
SAFER - Replace Airpacks (4-yr lease)	Capital Equipment				$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00						
SAFER - Turnout Gear	Capital Equipment				$ 11,149.00									
2017 Trade In/Equipment Sales	Capital Equipment				$ (24,500.00)									
2017 Trade In/Equipment Sales	Ref & Recy Fund				$ -									
2017 Trade In/Equipment Sales	Sewer & Water				$ (10,000.00)									
2017 Trade In/Equipment Sales SAFER	Capital Equipment				$ -									
2018 Purchases														
Parks Zero Turn Mower	Capital Equipment					$ 22,000.00	$ -	$ -					$ 5,000.00	
Plow Truck 69 (5-yr Finance)	Capital Equipment					$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00			$ 24,000.00	
One Ton Pickup 21	50% CEF, 50% RR					$ 45,000.00	$ -	$ -					$ 5,000.00	
Grader (5-yr finance)	Capital Equipment					$ 65,000.00	$ 65,000.00	$ 65,000.00	$ 65,000.00	$ 65,000.00			$ 80,000.00	
Utility Vac Truck Replacement	Sewer					$ 360,000.00	$ -	$ -					$ 175,000.00	
Utility Van 1	Sewer & Water					$ 28,000.00	$ -	$ -					$ 10,000.00	
SAFER - Car-11	Capital Equipment					$ 28,716.00								
SAFER - Furniture/Fixtures (SAFER)	Capital Equipment					$ 18,480.00								
SAFER - Medic-22 (4-yr finance)	Capital Equipment					$ 46,065.00	$ 46,065.00	$ 46,065.00	$ 46,065.00					
SAFER - Turnout Gear	Capital Equipment					$ 11,149.00								
2018 Trade In/Equipment Sales	Capital Equipment					$ (114,000.00)								
2018 Trade In/Equipment Sales	Ref & Recy Fund													
2018 Trade In/Equipment Sales	Sewer & Water					$ (185,000.00)								
2018 Trade In/Equipment Sales SAFER	Capital Equipment					$ -								
2019 Purchases														
Pickup Truck 2	75%CE, 20%RR, 5%SW						$ 35,000.00	$ -					$ 3,000.00	
End Loader 14 (3-yr in arrears finance)	67% CEF, 33%RR						$ -	$ 75,000.00	$ 75,000.00	$ 75,000.00			$ 31,000.00	
Utility Van 88	Sewer & Water						$ 28,000.00	$ -					$ 10,000.00	
Parks One Ton Pickup #6	Capital Equipment						$ 45,000.00	$ -					$ 5,000.00	
Pickup Truck 55 (Sign Truck)	90% CEF, 10% SW						$ 35,000.00	$ -					$ 3,000.00	
SAFER - Egine-11 (5-yr finance)	Capital Equipment						$ 68,919.00	$ 68,919.00	$ 68,919.00	$ 68,919.00	$ 68,919.00			
SAFER - Furniture/Fixtures (SAFER)	Capital Equipment						$ 18,480.00							
SAFER - Turnout Gear	Capital Equipment						$ 11,149.00							
2019 Trade In/Equipment Sales	Capital Equipment						$ (42,000.00)							
2019 Trade In/Equipment Sales	Ref & Recy Fund						$ -							
2019 Trade In/Equipment Sales	Sewer & Water						$ (10,000.00)							
2019 Trade In/Equipment Sales SAFER	Capital Equipment						$ -							
2020 Purchases														
One Ton Pickup 31	Capital Equipment							$ 45,000.00					$ 5,000.00	
Plow Truck 29 (5-yr Finance)	Capital Equipment							$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 40,000.00	$ 24,000.00	
Street Sweeper (5-yr buy back program)	Storm Water							$ 36,750.00	$ 36,750.00	$ 36,750.00	$ 36,750.00	$ 36,750.00		
Quad Axle 15 (5-yr finance)	50% CEF, 50% RR							$ 34,000.00	$ 30,000.00	$ 30,000.00	$ 30,000.00	$ 30,000.00	$ 24,000.00	
Chassis for new Leaf Vac Truck	Ref & Recy Fund							$ 35,000.00						
Skidsteer	Capital Equipment							$ 50,000.00					$ 5,000.00	
SAFER - Turnout Gear	Capital Equipment							$ 11,149.00						
SAFER - Medic-12 (4 Yr finance)	Capital Equipment							$ 48,142.00	$ 48,142.00	$ 48,142.00	$ 48,142.00			
2020 Trade In/Equipment Sales	Capital Equipment							$ (58,000.00)						
2020 Trade In/Equipment Sales	Ref & Recy Fund							$ -						
2020 Trade In/Equipment Sales	Sewer & Water							$ -						
2020 Trade In/Equipment Sales SAFER	Capital Equipment							$ -						

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	Funding Source	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
FY2014 Purchases	Capital Equipment	$ 75,133.85	$ 57,836.22	$ 57,836.22	$ 57,836.22	$ 41,678.20							$ 290,320.71
	SAFER												$ -
FY 2015 Purchases	Capital Equipment		$ (7,185.63)	$ 103,137.40	$ 103,137.40	$ 103,137.40	$ 103,137.40	$ 27,020.80					$ 432,384.77
	SAFER		$ 141,839.00										$ 141,839.00
FY 2016 Purchases	Capital Equipment			$ 139,793.00	$ 91,000.00	$ 91,000.00	$ 40,000.00	$ 40,000.00					$ 401,793.00
	SAFER			$ 178,268.00	$ 106,983.00	$ 106,983.00	$ 73,199.00	$ 73,199.00	$ 73,199.00				$ 611,831.00
FY 2017 Purchases	Capital Equipment				$ 74,000.00	$ 68,000.00	$ 68,000.00	$ 28,000.00	$ 28,000.00				$ 266,000.00
	SAFER				$ 139,237.00	$ 128,086.00	$ 63,897.00	$ 40,000.00					$ 371,220.00
FY 2018 Purchases	Capital Equipment					$ 35,500.00	$ 105,000.00	$ 105,000.00	$ 105,000.00	$ 105,000.00			$ 455,500.00
	SAFER					$ 104,410.00	$ 46,065.00	$ 46,065.00	$ 46,065.00				$ 242,605.00
FY 2019 Purchases	Capital Equipment						$ 60,750.00	$ 50,250.00	$ 50,250.00	$ 50,250.00			$ 211,500.00
	SAFER						$ 98,548.00	$ 68,919.00	$ 68,919.00	$ 68,919.00	$ 68,919.00		$ 374,224.00
FY 2020 Purchases	Capital Equipment							$ 94,000.00	$ 55,000.00	$ 55,000.00	$ 55,000.00	$ 55,000.00	$ 314,000.00
	SAFER							$ 59,291.00	$ 48,142.00	$ 48,142.00	$ 48,142.00		$ 203,717.00
Committed FY Cost	Capital Equipment	$ -	$ 57,836.22	$ 160,973.62	$ 251,973.62	$ 410,798.60	$ 453,233.40	$ 409,534.80	$ 302,514.00	$ 155,250.00	$ -	$ -	
Total FY Cost	Capital Equipment	$ 75,133.85	$ 192,489.59	$ 479,034.62	$ 572,193.62	$ 678,794.60	$ 658,596.40	$ 572,453.80	$ 426,433.00	$ 279,169.00	$ 123,919.00	$ 55,000.00	

	Funding Source	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
FY 2014 Purchases	Ref & Recy Fund		$ 64,632.06	$ 64,632.06	$ 64,632.06							
FY 2015 Purchases	Ref & Recy Fund		$ 33,908.53	$ 67,684.53	$ 67,684.53	$ 67,684.53	$ 67,684.53	$ 33,776.00	$ -	$ -	$ -	$ -
FY 2016 Purchases	Ref & Recy Fund											
FY 2017 Purchases	Ref & Recy Fund											
FY 2018 Purchases	Ref & Recy Fund					$ 22,500.00						
FY 2019 Purchases	Ref & Recy Fund						$ 7,000.00	$ 25,000.00	$ 25,000.00	$ 25,000.00	$ -	$ -
FY 2020 Purchases	Ref & Recy Fund							$ 52,000.00	$ 15,000.00	$ 15,000.00	$ 15,000.00	$ 15,000.00
Committed FY Cost	Ref & Recy Fund	$ -	$ 64,632.06	$ 132,316.59	$ 132,316.59	$ 67,684.53	$ 67,684.53	$ 58,776.00	$ 25,000.00	$ 25,000.00	$ -	$ -
Total FY Cost	Ref & Recy Fund	$ -	$ 98,540.59	$ 132,316.59	$ 132,316.59	$ 90,184.53	$ 74,684.53	$ 110,776.00	$ 40,000.00	$ 40,000.00	$ 15,000.00	$ 15,000.00

	Funding Source	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
FY 2014 Purchases	Sewer & Water	$ 15,046.00										
FY 2015 Purchases	Sewer & Water		$ -	$ 6,755.20	$ 6,755.20	$ 6,755.20	$ 6,755.20	$ 6,755.20	$ -	$ -	$ -	$ -
FY 2016 Purchases	Sewer & Water			$ 116,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FY 2017 Purchases	Sewer & Water				$ 18,000.00							
FY 2018 Purchases	Sewer & Water					$ 203,000.00						
FY 2019 Purchases	Sewer & Water						$ 23,250.00					
FY 2020 Purchases	Sewer & Water											
Committed FY Cost	Sewer & Water	$ -	$ -	$ 6,755.20	$ 6,755.20	$ 6,755.20	$ 6,755.20	$ 6,755.20	$ -	$ -	$ -	$ -
Total FY Cost	Sewer & Water	$ 15,046.00	$ -	$ 122,755.20	$ 24,755.20	$ 209,755.20	$ 30,005.20	$ 6,755.20	$ -	$ -	$ -	$ -

Funding Source Net Expense	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Capital Eqiupment Fund	$ 75,133.85	$ 192,489.59	$ 479,034.62	$ 572,193.62	$ 678,794.60	$ 658,596.40	$ 572,453.80	$ 426,433.00	$ 279,169.00	$ 123,919.00	$ 55,000.00
Refuse and Recycling Fund	$ -	$ 98,540.59	$ 132,316.59	$ 132,316.59	$ 90,184.53	$ 74,684.53	$ 110,776.00	$ 40,000.00	$ 40,000.00	$ 15,000.00	$ 15,000.00
Sewer and Water Utility Funds	$ 15,046.00	$ -	$ 122,755.20	$ 24,755.20	$ 209,755.20	$ 30,005.20	$ 6,755.20	$ -	$ -	$ -	$ -
Storm Water Utility Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ 36,750.00	$ 36,750.00	$ 36,750.00	$ 36,750.00	$ 36,750.00
Total Net Expense	$ 90,179.85	$ 291,030.18	$ 734,106.41	$ 729,265.41	$ 978,734.33	$ 763,286.13	$ 726,735.00	$ 503,183.00	$ 355,919.00	$ 175,669.00	$ 106,750.00

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.10.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**KEITH DONNER, DIRECTOR OF PUBLIC WORKS AND UTILITIES**
ITEM DESCRIPTION:	**BID RESULTS FOR MESKER/COLLEEN AND ROSS AVENUE LIFT STATION REPLACEMENTS AND RECOMMENDATION FOR AWARD OF CONTRACTS**
DATE/MTG:	**PROPERTY & INFRASTRUCTURE COMMITTEE, MONDAY, APRIL 4, 2016** **BOARD OF TRUSTEES, MONDAY, APRIL 18, 2016**
POLICY QUESTION:	Should the Board of Trustees award the replacement of the Ross Avenue and Mesker/Colleen lift stations to the low bidder(s) utilizing the preferred equipment Barnes-Crane, or based on a different equipment supplier, or do something else?
RECOMMENDATION TO:	No recommendation is being made at this time. A recommendation may be made on Monday, April 4, pending the evaluation and presentation of additional information.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☒ **Expenditure**	☐ Procedure	☐ Resolution

FISCAL IMPACT ANALYSIS:

☐ Budget Line Item:	Capital Assets for Sewer Utility, 61-00-18700
☐ Budgeted Expenditure:	Fund 61 – $592,000
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW: PIC 2015, Finance 2016

BACKGROUND: The replacements of the Ross Avenue and Mesker/Colleen vacuum primed lift stations were recommended in 2015 due to increased maintenance and deteriorating structural steel. Replacement equipment will be with submersible pumps which will eliminate the need for priming and improve the stations' reliability. Following an engineering study and design by Becher-Hoppe Engineers, bids were opened for the projects on March 23. The bid evaluation is still in process. The Director may have a recommendation on April 4.

☒ Supplemental Briefer for Agenda Items under Consideration, with attachments
☐ Attachment

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Village of Weston, Wisconsin
AGENDA ITEM LEGISLATIVE ANALYSIS
Supplemental Briefer for Agenda Items under Consideration

From: Keith Donner, Director of Public Works & Utilities
Date/Mtg: Monday, April 4, 2016
Re: Bid Results for Mesker/Colleen and Ross Avenue Lift Station Replacements and Recommendation for Award of Contracts.

1. Policy Question:

Should the Board of Trustees award the replacement of the Ross Avenue and Mesker/Colleen lift stations to the low bidder(s) utilizing the preferred equipment Barnes-Crane, or based on a different equipment supplier, or do something else?

2. Purpose:

The replacements of the Ross Avenue and Mesker/Colleen vacuum primed lift stations were recommended in 2015 due to increased maintenance and deteriorating structural steel. Replacement equipment will be with submersible pumps which will eliminate the need for priming and improve the stations' reliability. Following an engineering study and design by Becher-Hoppe Engineers, bids were opened for the projects on March 23.

3. Background:

As was the desire of Village staff Becher-Hoppe set up the bidding documents and specifications to allow the Village to select among alternate choices of equipment – whichever alternate is felt to be in the Village's best interests. Bids from general contractors were required to include pricing for 2 pre-approved pump systems – Barnes Crane and Hydromatic. A 3rd pump equipment - ABS Sulzer -received approval during the bidding process. Village staff favors the equipment associated with the Barnes-Crane pump system which happens to be the most expensive alternate.

4. Issue Analysis:

Village staff has experience with submersible pumping equipment from Barnes-Crane and Hydromatic as well as the controls and service provided through their distributors. Village staff has developed a more favorable impression of Barnes-Crane equipment due mainly to the distributor's – Energenecs of Cedarburg - historic record of service and responsiveness to Village needs and the relationship with their service technicians. The Village's experience with the Hydromatic pumps and service provided by the distributor – L.W. Allen of Madison - has not been as good and the experience with the Hydromatic pumps has not been as favorable to date. The Village has no experience with the equipment from ABS Sulzer or the distributor.

The Village considered writing an exclusive specification which only considered the preferred equipment. The Village also considered pre-purchasing the preferred equipment to remove this variable from the general contractors' bids. With either of these options the Director did not feel there was a sufficient level of competition to obtain the most favorable pricing for the preferred equipment. However, after bid opening the goal of each pump equipment supplier "sharpening the pencil" does not seem to have occurred across the board.

Using the low bid prices for the preferred equipment results in a total bid for both stations of $518,930 - $233,930 for Mesker/Colleen (Haas) and $285,000 for Ross (Kruczek).

Our specifications required that the bidders provide a price for both the Barnes-Crane and Hydromatic pump systems. The 2 lowest bids – Kruczek for Ross Avenue and Haas Sons for Mesker/Colleen - with Barnes-Crane turn out to be just under $32,000 more than the bids with Hydromatic and just under $48,000 more than the ABS Sulzer. Owing to

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Kruczek not reflecting the equipment discrepancy in their bid, it looks like the total difference would actually be in the range of $54,000 or $27,000 per station for Hydromatic; and $72,000/$36,000 for ABS Sulzer.

At this stage there is a lot of speculation as to why there is such a discrepancy in the bid prices. In addition to the equipment suppliers, there are now the general contractors in the mix and what details were included in equipment proposals vs. what general contractor included in their bids is probably going to remain confidential. The Village does not need to rush to a decision, so additional information is being gathered to make a more thorough comparison. Although we had hoped that was all taken care of in specification writing, there is a possibility that both the preferred vendor and the contractors were aware of the Village's preference for Barnes-Crane and may be.

The Director feels the service relationship with Energenecs is a factor to be considered. However, the Director also feels that the preferred supplier may be taking advantage of the Village preference. To be fair though, this could be a case of the e contractors trying to take advantage of the preference. That is perhaps less likely owing to the Barnes-Crane equipment being in the range of $20,000 higher in cost with most of the contractors across the board as compared to the Hydromatic equipment.

There are currently 4 lift stations in our system with the Barnes-Crane equipment from Energenecs. Energencs has also been the supplier for all of the vacuum primed stations as well as the more customized larger stations in our collection system. Hydromatic pumps supplied by L.W. Allen were/are the original equipment in the Eau Claire River station and the Ryan Street station. There have been 2 pump failures in these stations since they were installed approximately 15 years ago. A Barnes-Crane pump was installed as a replacement for the failed Hydromatic pump at each station.

Lift Station Location	Station Style	Pumping Equipment	Supplier
Eau Claire River	Submersible	Hydromatic	L.W. Allen
Ryan Street	Submersible	Hydromatic	L.W. Allen
Tanya Tricia	Vacuum Primed	Smith & Loveless	Energenecs
Mesker/Colleen	**Vacuum Primed**	**Smith & Loveless**	**Energenecs**
Ross Avenue	**Vacuum Primed**	**Smith & Loveless**	**Energenecs**
Park Terrace Sub.	Submersible	Barnes-Crane	Energenecs
Fox Street	Customized Flooded Suction	Smith & Loveless	Energenecs
Mesker-Jelinek	Customized Flooded Suction	Smith & Loveless	Energenecs
Kathleen Street	Submersible	?????	Likely Energenecs
Pointe Road	Submersible	Barnes-Crane	Energenecs
Business Park South	Submersible	Barnes-Crane	Energenecs
Heritage Hills	Submersible	Barnes-Crane	Energenecs
Harlyn Street	Vacuum Primed	Smith & Loveless	Energenecs

More information is necessary before the Director will make a recommendation. Village staff and the engineer are evaluating more detailed information about the different pumping equipment from the 3 potential suppliers.

5. Fiscal Impact:

The original budget estimate for the project was $550,000 in 2015 with $100,000 estimated for engineering and the balance of $450,000 estimated for construction. The total engineering contract turned out to be only $47,000 in 2015 with the balance of $503,000 represented as lapsing for calendar year 2015 capital budget.

In 2016 the construction estimate was revised to $530,000 - $230,000 for Mesker-Colleen and $300,000 for Ross – and this was included in the CIP for 2016 budget. Becher-Hoppe updated the estimated construction costs to $590,000 - $330,000 for Mesker/Colleen and $230,000 for Ross – in February 2016, though there was no amendment to the CIP budget proposed at that time.
Using the cost of the preferred equipment - $518,930 – together with a contingency of $26,000 (approximately 5% of construction bids) and the engineering contract amount of $47,000, the total project estimate becomes $590,000. The project budget was $577,000 based on the engineering services contract of $47,000 and the construction estimate of $530,000. On March 23 the Finance Committee approved increasing the project budget by $15,000 for a total amended budget amount of $592,000.

The project(s) have been planned to be paid for from fund balance – an accumulation of excess utility revenues from prior years which is kept in various investments. Fund balance is something the utility should use for larger capital projects such as this though the Village should establish a policy for the amount kept in fund balance as well as what purposes it should be used for. Current sewer utility fund balance is just under $6.9M.

There is sufficient budget for whatever alternate may be recommended.

6. Statutory References:

The engineer, Becher-Hoppe, indicates having bid and awarded projects in other communities with the ability to select the preferred equipment. With the difference in costs being solely attributable to equipment based on the language in the specifications, selecting the preferred equipment is proper.

7. Prior Review:

The financial aspects of the project were discussed at the 3/23/16 meeting of the Finance Committee. The issue has been discussed with utility operations staff and the engineer prior to and after bid opening. Evaluation continues as noted above.

8. Policy Choices:

The initial reaction was to recommend award with regard to the Director's preferred equipment option. The Director may be prepared to present a recommendation at the Property & Infrastructure Committee meeting on Monday, April 4. The choices will be:

1. Award based on the Director's recommendation, or allow the Director to make the recommendation to the Board of Trustees at their April 18, 2016, meeting.
2. Award to the bidder based on the Committee's recommendation and recommend to the Board of Trustees on 4/18/16.
3. Reject all bids and re-bid.

9. Recommendation:

A recommendation is not being made at this time. The Director may be prepared to present a recommendation at the Property & Infrastructure Committee meeting on Monday, April 4.

10. Legislative Action:

Dependent on the recommendation or PIC preference.

11. Attachments:

Bid Summary Letter from Becher-Hoppe Engineers dated 3/24/16.
Worksheet provided to Finance Committee summarizing 2015 and 2016 CIP for the project(s).
Request for Consideration and Background Report provided for 3/23/16 Finance Committee Meeting.

BECHER HOPPE
Engineers and Architects

330 N. 4th Street, Wausau, WI 54403-5417
Telephone: 715-845-8000 | www.becherhoppe.com

March 24, 2016

Mr. Keith Donner, PE
Director of Public Works and Utilities
Village of Weston
5500 Schofield Ave
Weston, WI 54476

Subject: Ross Avenue and Mesker/Colleen Lift Station Replacements
Bid Summary

Dear Keith:

We prepared the bid documents to receive bids for three alternate manufacturers of pump equipment. Enclosed herewith is the Bid Summary for the project. We have reviewed the Bids.

Utilizing Barnes/Crane pump equipment, the low bidders for the lift station replacements are:

Lift Station	Low Bidder	Low Bid
Ross Avenue	Kruczek Construction	$285,000
Mesker/Colleen	Haas Sons, Inc.	$233,930
	Total Cost	$518,930

Utilizing Hydromatic pump equipment, the low bidders for the lift station replacements are:

Lift Station	Low Bidder	Low Bid
Ross Avenue	Haas Sons, Inc.	$281,177
Mesker/Colleen	Haas Sons, Inc.	$205,955
	Total Cost	$487,132

Utilizing ABS Sulzer pump equipment, the low bidders for the lift station replacements are:

Lift Station	Low Bidder	Low Bid
Ross Avenue	Haas Sons, Inc.	$273,177
Mesker/Colleen	Haas Sons, Inc.	$197,955
	Total Cost	$471,132

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BECHER HOPPE
Engineers and Architects

The pre-bid opinion of the probable cost was $260,000 for the Ross Avenue lift station.
The pre-bid opinion of the probable cost was $330,000 for Mesker/Colleen lift station.

The bid documents allow the Village to select the manufacturer of the pump that the Village believes will be in the best interest of the Village. The award must be made to the low bidder of that manufacturer of pumps selected by the Village.

Please advise who the Village decides to award the project. We will prepare the Notice of Award for your signature.

Sincerely,

Kenneth J. Ligman, PE
Senior Project Manager

KJL/tms
Enclosures

P:\2015\2015.064 - Weston - Ross - Mesker-Colleen Lift Stations\Correspondence\Sent\2015.064.030 ltr 160324 donner bid summary.docx

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Bid Summary - **APPARENT LOW BY PUMP MANUFACTURER**
Village of Weston
2015.064
Bid Opening March 23, 2016 at 2:00 PM

Contractor	Contract 1 Ross Avenue a) Barnes/Crane	Contract 2 Mesker/Colleen a) Barnes/Crane	Contract 2 Combined Bid a) Barnes/Crane	Contract 1 Ross Avenue b) Hydromatic	Contract 2 Mesker/Colleen b) Hydromatic	Contract 2 Combined Bid b) Hydromatic	Contract 1 Ross Avenue C) ABS Sulzer	Contract 2 Mesker/Colleen C) ABS Sulzer	Contract 2 Combined Bid C) ABS Sulzer
Earth, Inc Arpin, WI	$ 304,330.00	$ 266,720.00	$ 571,050.00	$ 309,615.00	$ 272,640.00	$ 582,255.00			
Haas Sons, Inc., Thorp, WI	$ 309,352.00	$ 233,930.00	$ 543,282.00	$ 281,177.00	$ 205,955.00	$ 487,132.00	$ 273,177.00	$ 197,955.00	$ 471,132.00
Integrity Grading & Excav. Schofield, WI	$ 538,929.58	$ 378,657.24		$ 514,744.45	$ 348,657.24				
James Peterson Sons Medford, WI	$ 323,000.00	$ 293,000.00	$ (5,000.00) $ 611,000.00	$ 296,000.00	$ 258,000.00	$ (5,000.00) $ 549,000.00	$ 292,000.00	$ 252,000.00	$ (5,000.00) $ 539,000.00
Kruczek Construction Green Bay, WI	$ 285,000.00	$ 315,000.00	$ (5,000.00) $ 595,000.00	$ 285,000.00	$ 315,000.00	$ (5,000.00) $ 595,000.00			
Pember Companies, Menomonie, WI				$ 347,119.00	$ 303,723.00	$ (8,000.00) $ 642,842.00			
PTS Contractors, Inc., Green Bay, WI	$ 486,164.00	$ 408,552.00		$ 474,216.00	$ 398,561.00		$ 473,752.00	$ 388,366.00	
Apparent Low	$ 285,000.00 Kruzek	$ 233,930.00 Haas		$ 281,177.00 Haas	$ 205,955.00 Haas		$ 273,177.00 Haas	$ 197,955.00 Haas	

VILLAGE OF WESTON

2015-2016 CIP BUDGET YEARS for Ross Avenue & Mesker/Colleen Lift Station Capital Projects

	2015 Adopted Budget	2015 Estimate	2015 Carryforward	2015 Lapsed
2015 CIP Budget:				
Design - Ross Ave. Lift Station	$ 60,000	$ 47,000	$ -	$ 53,000
Design - Mesker/Colleen Lift Station	$ 40,000	"	$ -	$ -
Construction - Ross Ave. Lift Station	$ 200,000	$ -	$ -	$ 200,000
Construction - Mesker/Colleen Lift Station	$ 250,000	$ -	$ -	$ 250,000
Total	**$ 550,000**	**$ 47,000**	**$ -**	**$ 503,000**

	2016 Adopted Budget	2016 Estimate		2015 Prior Year Costs		2015-2016 Grand Total Project Estimate
2016 CIP Budget:						
Design - Ross Ave. Lift Station	$ -	$ -		$ 47,000		
Design - Mesker/Colleen Lift Station	$ -	$ -		"		
Construction - Ross Ave. Lift Station	$ 300,000	$ -		$ -		
Construction - Mesker/Colleen Lift Station	$ 230,000	$ -		$ -		
Total Bids Received		$ 519,000				
Contingency		$ 26,000				
	$ 530,000	**$ 545,000**	**+**	**$ 47,000**	**=**	**$ 592,000**

Shall the Finance Committee amend the 2016 CIP Budget for these 2 Sewer Projects by adding an additional + $13,000 to these projects?

The funding source would come from the Sewer Fund Balance, and was leftover from the unused 12/31/2015 CIP Budget Funds from 2015.

Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**KEITH DONNER, DIRECTOR OF PUBLIC WORKS AND UTILITIES**
ITEM DESCRIPTION:	**AUTHORIZE EXPENDITURE OF SEWER UTILITY FUNDS FOR REPLACEMENT OF MESKER-COLLEEN AND ROSS AVENUE WASTEWATER PUMPING STATIONS**
DATE/MTG:	**FINANCE COMMITTEE, WEDNESDAY, MARCH 23, 2016** **PROPERTY & INFRASTRUCTURE COMMITTEE, MONDAY, APRIL 4, 2016** **BOARD OF TRUSTEES, MONDAY, APRIL 4, 2016**
POLICY QUESTION:	Should the Board of Trustees authorize expenditure from Sewer Utility investments and/or the hook-up fee account to cover 100% of the cost of replacement of the wastewater pumping stations at Ross Avenue and Mesker-Colleen?
RECOMMENDATION TO:	I make a motion that the Board of Trustees authorize expenditure from Sewer Utility investments and/or the hook-up fee account to cover 100% of the cost of replacement of the wastewater pumping stations at Ross Avenue and Mesker-Colleen.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☒ **Expenditure**	☐ Procedure	☐ Resolution

FISCAL IMPACT ANALYSIS:

☐ Budget Line Item:	
☐ Budgeted Expenditure:	61-00-18700-000-444 – Ross $300,000; Mesker-Colleen $230,000
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW: 2016 Budget preparation; June 2015 Retained Becher-Hoppe for engineering services.

BACKGROUND: In June 2015 the Village retained Becher-Hoppe for engineering services related to the replacement of the wastewater pumping stations at Ross Avenue west of Bayberry and Mesker-Colleen Streets. The Director's estimate of cost included in the 2016 budget documents has since been superseded by a February opinion of probable cost from Becher-Hoppe. The current estimates are: Ross Avenue $260,000, Mesker-Colleen $330,000; Engineering $47,000. The costs of replacement excluding engineering are, therefore, $590,000 - $60,000 over the budget estimate. Including engineering the costs are approximately $107,000 over the estimate. Actual costs will be much clearer once bids for the project are opened on March 23, prior to the Finance Committee meeting. Irrespective of bid results, these projects would be recommended to be financed from Sewer Utility investments and/or the hook-up fee account. The Director recommends financing the projects 100% from Sewer Utility funds at the discretion of the Finance Director. ☒ Attached Budget Information and Previous Request for Consideration

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Keith Donner

From: Kenneth J. Ligman <kligman@becherhoppe.com>
Sent: Wednesday, February 17, 2016 4:18 PM
To: Keith Donner
Cc: Michael Wodalski; Stephen M. Opatik
Subject: weston lift stations

Opinion of probable construction cost for Ross Avenue lift station = $260,000
Opinion of probable construction cost for Mesker/Colleen lift station = $330,000

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VILLAGE OF WESTON
2016 CIP BUDGET REQUEST
AND 2017 FINANCIAL PLAN
PROGRAM COMMENTS

Department/Office: Finance	**Budget:** Capital Equipment Fund
Program: Capital Projects Funds	**Submitted by:** Keith Donner/John Jacobs

UTILITY FUNDS (WATER, SEWER, & STORMWATER) - CAPITAL IMPROVEMENTS FUND
2016 Capital Improvements Program (CIP) Budget – 2017 Financial Plan

	2014 Actual	2015 Budget	2015 Estimate	2016 Proposed Budget	2017 Financial Plan
Fund Balance, January 1	$ -	$ -	$ -	$ -	$ -
REVENUES					
Fund Balance - Water Utility	$ 26,046	$ 4,700	$ 6,755	$1,358,755	$ 34,755
Fund Balance - Sewer Utility	-	550,000	-	610,000	-
Fund Balance - Stormwater Utility	-	-	-	5,000	-
Total Revenues	$ 26,046	$ 554,700	$ 6,755	$1,973,755	$ 34,755
EXPENDITURES					
Water - SCADA Equipment	$ -	$ -	$ -	$ -	$ -
Water - Furniture & Equipment	-	-	-	-	-
Water - Replace Excavator #23	-	4,700	6,755	6,755	6,755
Water - Power Valve Turner	-	-	-	40,000	-
Sewer - Magnetic Manhole Lifter	-	-	-	8,000	-
Sewer - Sewer Televising Camera	-	-	-	50,000	-
Water/Sewer - Utility Van Replacement	26,046	-	-	22,000	28,000
Design - Ross Ave. Lift Station	-	60,000	-	-	-
Design - Mesker/Colleen Lift Station	-	40,000	-	-	-
Construction - Ross Ave. Lift Station	-	200,000	-	300,000	-
Construction - Mesker/Colleen Lift Station	-	250,000	-	230,000	-
Design Well #7 - Camp Phillips Road	-	-	-	100,000	-
Ridgeview Subdivision Connection to E. Everest	-	-	-	17,000	-
Automated Meter Reading - Water Utility	-	-	-	1,200,000	-
Total Expenditures	$ 26,046	$ 554,700	$ 6,755	$1,973,755	$ 34,755
Excess Revenues Over (Under) Expenditures	$ -	$ -	$ -	$ -	$ -
Fund Balance, December 31	$ -	$ -	$ -	$ -	$ -

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VILLAGE OF WESTON
2016 Operating Budget - 2017 Financial Plan
ENTERPRISE FUNDS - Budget Summary

Fund Name	2014 Actual	2015 Amended Budget	2015 Estimate	2016 Proposed Budget	2017 Financial Plan
NET ASSETS BALANCES - including Infrastructure					
Water Utility (Fund 60)					
Net Assets, January 1st	$ 23,816,805	$ 24,023,328	$ 24,023,328	$ 23,960,806	$ 23,722,766
Revenues	2,302,472	2,249,585	2,174,815	2,156,956	2,167,956
Expenses	(2,095,949)	(2,438,663)	(2,237,337)	(2,394,996)	(2,296,206)
Net Assets, December 31st	$ 24,023,328	$ 23,834,250	$ 23,960,806	$ 23,722,766	$ 23,594,516
Sewer Utility (Fund 61)					
Net Assets, January 1st	$ 25,508,219	$ 25,889,922	$ 25,889,922	$ 26,010,899	$ 26,064,313
Revenues	2,216,889	1,968,900	2,104,639	2,234,138	2,443,638
Expenses	(1,835,186)	(2,007,072)	(1,983,662)	(2,180,724)	(2,286,259)
Net Assets, December 31st	$ 25,889,922	$ 25,851,750	$ 26,010,899	$ 26,064,313	$ 26,221,692
Stormwater Utility (Fund 63)					
Net Assets, January 1st	$ 9,281,874	$ 9,353,771	$ 9,353,771	$ 9,372,749	$ 9,436,754
Revenues	658,596	605,224	619,835	644,642	644,125
Expenses	(586,699)	(579,007)	(600,857)	(580,637)	(570,524)
Net Assets, December 31st	$ 9,353,771	$ 9,379,988	$ 9,372,749	$ 9,436,754	$ 9,510,355
GRAND TOTAL					
Net Assets, January 1st	$ 58,606,898	$ 59,267,021	$ 59,267,021	$ 59,344,454	$ 59,223,833
Revenues	5,177,957	4,823,709	4,899,289	5,035,736	5,255,719
Expenses	(4,517,834)	(5,024,742)	(4,821,856)	(5,156,357)	(5,152,989)
Net Assets, December 31st	$ 59,267,021	$ 59,065,988	$ 59,344,454	$ 59,223,833	$ 59,326,563
UNRESTRICTED NET ASSETS BALANCES - excluding Infrastructure					
Water Utility (Fund 60)					
Unrestricted Net Assets, Jan. 1st		$ 3,928,680	$ 3,928,680	$ 3,866,158	$ 3,628,118
Revenues		2,249,585	2,174,815	2,156,956	2,167,956
Expenses		(2,438,663)	(2,237,337)	(2,394,996)	(2,296,206)
Unrestricted Net Assets, Dec. 31st		$ 3,739,602	$ 3,866,158	$ 3,628,118	$ 3,499,868
Sewer Utility (Fund 61)					
Unrestricted Net Assets, Jan. 1st		$ 6,718,296	$ 6,718,296	$ 6,839,273	$ 6,892,687
Revenues		1,968,900	2,104,639	2,234,138	2,443,638
Expenses		(2,007,072)	(1,983,662)	(2,180,724)	(2,286,259)
Unrestricted Net Assets, Dec. 31st		$ 6,680,124	$ 6,839,273	$ 6,892,687	$ 7,050,066
Stormwater Utility (Fund 63)					
Unrestricted Net Assets (Deficit), Jan. 1st		$ (142,503)	$ (142,503)	$ (123,525)	$ (59,520)
Revenues		605,224	619,835	644,642	644,125
Expenses		(579,007)	(600,857)	(580,637)	(570,524)
Unrestricted Net Assets, (Deficit), Dec. 31st		$ (116,286)	$ (123,525)	$ (59,520)	$ 14,081
GRAND TOTAL					
Unrestricted Net Assets, Jan. 1st		$ 10,504,473	$ 10,504,473	$ 10,581,906	$ 10,461,285
Revenues		4,823,709	4,899,289	5,035,736	5,255,719
Expenses		(5,024,742)	(4,821,856)	(5,156,357)	(5,152,989)
Unrestricted Net Assets, Dec. 31st		$ 10,303,440	$ 10,581,906	$ 10,461,285	$ 10,564,015

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VILLAGE OF WESTON
REQUEST FOR CONSIDERATION

AGENDA ITEM DSCRPTN:	RECOMMENDATION TO EXECUTE CONTRACT WITH BECHER-HOPPE ENGINEERS FOR SEWAGE PUMP STATION REPLACEMENTS – ROSS AVENUE AND MESKER/COLLEEN
FOR CONSIDERATION AT:	PROPERTY & INFRASTRUCTURE COMMITTEE, MONDAY, JUNE 1, 2015 BOARD OF TRUSTEES, MONDAY, JUNE 1, 2015
LEGISLATION TYPE:	ACKNOWLEDGE | **MOTION** | ORDINANCE | POLICY | RESOLUTION
RECOMMENDATION TO:	Execute a contract with Becher-Hoppe Engineers for the Ross Avenue and Mesker-Colleen sewage pump station replacements in accordance with their proposal dated April 30, 2015. Fees for the project are summarized as follows:

Ross Avenue Area Alternatives Analysis	$4,800 Lump Sum
Ross and Mesker-Colleen Siting	$5,200 Lump Sum
Ross Avenue Station Design	$8,400 Lump Sum
Mesker-Colleen Station Design	$8,400 Lump Sum
Bidding for both projects	$2,800 Lump Sum
Ross Avenue Construction Administration	$5,100 Lump Sum
Mesker-Colleen Construction Administration	$5,100 Lump Sum
Ross Avenue Construction Inspection*	$3,600 Estimate
Mesker-Colleen Construction Inspection*	$3,600 Estimate

*Construction Inspection is time and material based on minimum inspections at 5 project milestones as defined in the request for proposals.

Total Fees - $39,800 Lump Sum plus $7,200 Estimated for Construction Inspection.

REPORT PREPARED BY:	KEITH DONNER; DIRECTOR OF PUBLIC WORKS AND UTILITIES
BACKGROUND:	There is a need to replace the two referenced sewage pump stations (a.k.a. lift stations) due to the deterioration of the steel floor plate in the dry-well of each of them. These stations have vacuum primed pumps and date back to the 1980's for their original construction. The Village has been working toward converting its vacuum primed sewage pump stations to submersible pump style stations in the interest of improved equipment reliability and improved safety for personnel conducting routine operation and maintenance activities. The projects require the procurement of a consulting engineer for design, bidding, and construction services. The Village anticipated project costs in the range of $450,000 and engineering design fees in the range of $100,000 for the two projects combined (see 2015 budget detail attached). Although the Village does not have a formal procurement policy, the Department of Public Works determined it to be prudent to obtain proposals for the professional services required for the project, owing to the estimated design costs and overall project costs. In the interest of allowing the Director and Deputy Director to devote their attention to other matters, and for additional professional perspective regarding the project, the Village partnered with Roth Professional Solutions for the preparation of a request for proposals (RFP), management/administration of the proposal solicitation process, and evaluation of proposals. The Department invited 5 engineering firms with a presence in the Central Wisconsin region – CWE, Inc.; Becher-Hoppe Associates; MSA Professional Services; Clark-Dietz &

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Associates; and AECOM – to submit proposals for the project(s). AECOM elected not to submit a proposal. Proposals were received from the other four firms. While all firms are qualified to perform the services needed for the project, staff concurs with the recommendation of Robert Roth, P.E., Roth Professional Solutions, as described in the proposal evaluation (attached). It is further recommended to execute a contract with Becher-Hoppe in accordance with their proposal. Also attached is the RFP, and a copy of each responding firm's proposal (minus any information of a more proprietary or confidential nature).

FISCAL IMPACTS:	
Budget Line Item:	61-07-*****-***-***– Sewer Capital Projects Fund
Budget Line Item:	
Budgeted Expenditure:	Estimated $100,000 design; $450,000 construction
Budgeted Revenue:	N/A

STATUTORY REFERENCES:	
Wisconsin Statue:	
Administrative Code:	
Municipal Code:	
Judicial Ruling:	

FURTHER REVIEW:

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VILLAGE OF WESTON
2015 CIP BUDGET REQUEST
AND 2016 FINANCIAL PLAN
PROGRAM COMMENTS

Department/Office: Finance	Budget: Facility Projects Fund
Program: Capital Projects Funds	Submitted by: John Jacobs/Keith Donner

FACILITY PROJECTS FUND
2015 Capital Improvements Program (CIP) Budget – 2016 Financial Plan

A capital projects fund has been created to account for the financing and project costs for the construction and major repairs of specific Village building facilities and for the purchase and development of Village parkland areas. The primary financial resources of this fund are the proceeds of general obligation debt, contributions/donations, room tax funds, and state grants. The capital projects fund is a part of the Village's 5-year Capital Improvements Program (CIP) Budget.

A transfer from the Room Tax Fund to reimburse this fund for the 2008 construction of the new Skateboard Park at Kennedy Park is planned to occur during the period of 2010-2014, until the Facilities Fund has been fully reimbursed for the $278,316 total project costs of the Skateboard Park. Currently, there are no projects budgeted for 2015 or 2016.

	2013 Actual	2014 Budget	2014 Estimate	2015 Proposed Budget	2016 Financial Plan
Fund Balance (Deficit), January 1	$ (94,983)	$ -			
REVENUES					
Transfer from Other Funds:					
Room Tax Fund	$ 31,000	$ -			
Capital Equipment Fund	63,983	-			
Total Revenues	$ 94,983	$ -			
EXPENDITURES					
None	$ -	$ -	Moved to Capital Improvements Fund		
Total Expenditures	$ -	$ -			
Excess Revenues Over (Under) Expenditures	$ 94,983	$ -			
Fund Balance, December 31	$ -	$ -			
Summary of Fund Balance (Deficit):					
Advance from Debt Service Fund	$ -	$ -			
Unassigned Fund Balance	-	-			
TOTAL FUND BALANCE, December 31	$ -	$ -			

UTILITY FUNDS (WATER, SEWER, & STORMWATER) - FACILITY PROJECTS FUND
2015 Capital Improvements Program (CIP) Budget – 2016 Financial Plan

	2013 Actual	2014 Budget	2014 Estimate	2015 Proposed Budget	2016 Financial Plan
Fund Balance, January 1	$ -	$ -	$ -	$ -	$ -
REVENUES					
Fund Balance - Sewer Utility	$ -	$ -	$ -	$ 550,000	$ -
Total Revenues	$ -	$ -	$ -	$ 550,000	$ -
EXPENDITURES					
Design - Ross Ave. Lift Station	$ -	$ -	$ -	$ 60,000	$ -
Design - Mesker/Colleen Lift Station	-	-	-	40,000	-
Construction - Ross Ave. Lift Station	-	-	-	200,000	-
Construction - Mesker/Colleen Lift Station	-	-	-	250,000	-
Total Expenditures	$ -	$ -	$ -	$ 550,000	$ -
Excess Revenues Over (Under) Expenditures	$ -	$ -	$ -	$ -	$ -
Fund Balance, December 31	$ -	$ -	$ -	$ -	$ -

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RECOMMENDATION

ROSS AVENUE & MESKER-COLLEEN LIFT STATION REPLACEMENTS
CONSULTING SERVICES FOR LIFT STATION DESIGN & CONSTRUCTION

For:

WESTON MUNICIPAL UTILITIES
Village of Weston, Marathon County, Wisconsin
5500 Schofield Ave., Weston, WI 54476

PREPARED BY:

RPS
ROTH
PROFESSIONAL SOLUTIONS

RFP RELEASED: APRIL 2, 2015
PROPOSALS DUE: APRIL 30, 2015

INCLUDED WITHIN THIS DOCUMENT:

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BACKGROUND

Lift stations have evolved significantly over the years and the Public Works Department has determined that it is in its best interests to work with an experienced firm who may be familiar with the details involved with planning and designing a lift station in today's standards. On April 2, 2015 a Request for Proposal (RFP) for Design Services for the Rehabilitation of the Ross Avenue Lift Station and the Mesker-Colleen Lift Station was solicited to invited firms with a local presence in the metro-area. The objective of the RFP was to contract with a qualified firm who best suits the Village of Weston. A significant part of the scope of work includes the feasibility and alternatives analysis of the Ross Avenue Lift Station, which is a planning step that would potentially impact how the station is designed.

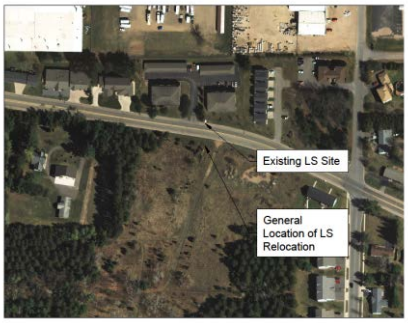
Firms were provided with all available Village data on each lift station to use in their preparation of proposals. Engineers were asked to put a detailed proposed together including costs, for all aspects of the project work including construction services. The RFP was prepared to maximize the respondent's information going-in to the project, to eliminate vast amounts of Staff's time in dealing with apples and oranges responses, as well as to provide a solid basis for preparation of quality proposals.

The RFP was coordinated by Roth Professional Solutions who is assisting the Village in providing guidance and expertise in the consultant selection process. Proposals were submitted on April 30, 2015. There were very few questions fielded from the respondents throughout the proposal process.

SCOPE OF WORK

Feasibility Study. A study of feasible alternatives is requested to determine viable options for a possible re-routing of the Village of Weston collection system west of the intersection of Ross Avenue and Alderson Street. This area flows through Schofield to the Wausau Treatment Plant. The Village of Weston pays per gallon via a separate agreement for conveyance flows through Schofield. The analysis would general include a life-cycle cost comparison of all alternatives. The Village is looking for all realistic options to be considered, including gravity sewer main rerouting and pump station alternatives. Since the study may impact the design of the Ross Avenue Station, it is requested prior to any design work on that Station.

Ross Avenue Station. The Ross Avenue site is located in a mid-block area between Bayberry Street and Birch Street. It is currently within the Ross Avenue right-of-way (north side) as approximately shown below. The Ross Avenue Pump Station is a Smith & Loveless Recessed Wetwell Mounted Lift Station with Vacuum Primed Pumps. The scope includes a full rehabilitation of this station by converting it to a submersible pump lift station with integral valve vault. It currently operates around 100 GPM at 22.7' TDH.



Ross Avenue Lift Station Site

Mesker-Colleen Lift Station Site

Mesker-Colleen Station. The Mesker-Colleen Pump Station site is located off the end of Colleen Avenue at its intersection with Mesker Street. It is currently within right-of-way of Mesker Street (west side) as approximately shown above. The Mesker-Colleen Pump Station is also a Recessed Wetwell Mounted Lift Station with Vacuum

Primed Pumps. The scope includes a full rehabilitation of this station by converting it to a submersible pump lift station with integral valve vault. It currently operates around 130 GPM at 66' TDH with 7.5 hp motors.

PROPOSAL EVALUATION

Proposals were received from four (4) out of the five (5) invited firms. AECOM opted out due to workload issues. Submitted proposals were reviewed for completeness, approach, relevant experience, staff & qualifications, ability to meet the timeframe, and cost. Because all of the firms were considered experienced in lift station work, a general guideline for evaluating the proposals also assisted in the proposal ranking. The proposal ranking structure was not publicized during the process – it was simply utilized as a guide.

The Village received four (4) excellent proposals that were completed in a comprehensive and detailed manner in accordance with the RFP. All the proposals showed each firm's quality of service and experience in municipal public works projects. However, some of the proposals lacked in approach and content specific to the Village's needs.

Proposals were narrowed down to two (2) possible firms based on completeness of the proposal, approach for the overall project, current lift station experience, and familiarity with Village (for the feasibility portion). These firms provided more information in their respective proposals in these categories. Becher Hoppe and CWE were those firms.

FEE ANALYSIS

While cost is not the ultimate basis for selection, it reveals a great deal of information about the intent of responding firms on how they will approach the project. Hours were requested for each major category, to ascertain the level of budgeting and time compared to expected ranges. Design and construction fees ranged from $47,000 to $111,670. This is a very wide range for design and construction services from firms in a relatively close geographic area.

The following summary of fees and hours is provided for the two firms:

Firms	Fee	Hours Design	Hours Construction	Total Hours
Becher Hoppe	$47,000	382	190	572
CWE	$87,060	630	530	1160

The following information is interpreted from the fee information:

Becher Hoppe

The fee and hours provided by Becher Hoppe were adequate for typical municipal lift station projects. The design-through-bidding proposal fee was $29,600. The hours provided for feasibility of the Ross Avenue station is adequate and appears to be based on a knowledge of the system/area. They provided a detailed approach on the project in the proposal document, so it is clear their work for the station is based on knowledge, experience, and typical details in station design and construction, with input from pump suppliers and electronics controls technicians. It is noted that Becher Hoppe is utilizing a sub-consultant for the electrical design/controls component. This is fairly common although some firms can provide this in house. While we would normally identify a benefit to having all services provided under one roof, on lift station projects it is inevitable that outside representatives such as pump suppliers, controls specialists, and other product representatives provide recommendations on the station design, so it is not deemed as a detractor from a valuable design delivery. Becher Hoppe appears to provide the required amount of inspection time as identified in the RFP.

CWE

The fee and hours provided by CWE included $55,420 for design-through-bidding fees. In general CWE represented a knowledge of the scope of work, and they have significant experience with the Village including involvement in both of the original lift station designs. However, this did not appear to convey as a savings value to the Village. CWE did not identify in their approach any insight or recommendations on the project from their experience with the Village systems. CWE appears to allocate additional time in working with the Village to meet the Village's needs and consequentially this may carry through the proposal in other areas. The hours and value provided seem to indicate this. CWE's proposal included more hours for the Ross Avenue LS feasibility – this is the most arbitrary portion of the RFP which we expected to have some variability. However, the numbers for lift station design and construction were all approximately twice that of Becher Hoppe. The additional budgeted hours correlate to a higher overall fee, but it is difficult to determine what additional level of quality would be achieved for the extra cost on a lift station project.

Construction, Generally

Construction observation/inspection was not considered as a determining factor for proposal award. Full-time inspection is not necessarily needed for lift station construction as a significant portion of the work is below ground or interior confined space construction. Milestone inspections and performance-based inspections are typical in lift station construction.

RECOMMENDATION

It is recommended that Becher Hoppe be retained as the design and construction consultant for the scope of work included in the RFP. Becher Hoppe has been found through the evaluation process to be a suitable choice that is experienced, has identified a detailed approach, and has staff identified that are qualified to complete the scope of work. While there is a significant range in proposal fees from the respondents, we rely on the detailed scope of work provided in the RFP that fully disclosed the Village's expectations thus making the likelihood of a major scope change only limited to changes directed by the Village or due to unique construction circumstances. Further, we find that Becher Hoppe's experience and familiarity with similar stations affords them to be more efficient on the project to meet the Village's best interests overall.

RESPECTFULLY SUBMITTED,

Robert J. Roth, PE

Roth Professional Solutions, Inc.

	Becher-Hoppe		Clark-Dietz		CWE		MSA	
	Cost Estimates	Hours	Cost Estimates	Hours	Cost Estimates	Hours	Cost Estimates	Hours
Ross Ave. Alternatives	4,800	57	3,340	28	16,000	172	12,008	133
Siting & Deliverables (Both Stations)	5,200	63	3,750	34	4,820	60	9,482	88.75
Ross Avenue								
Design	8,400	99	18,675	159	15,600	168	20,227	215
Bidding	2,800	32	1,670	14	2,500	26	3,439	29
Construction Admin	5,100	51	7,070	58	15,220	96	10,731	101
Construction RPR	3,600	44	-	-	??	160	10,693	136
Mesker-Colleen								
Design	8,400	99	18,675	159	14,000	152	20,227	215
Bidding	-	32	1,670	14	2,500	26	3,439	29
Construction Admin	5,100	51	7,070	58	16,420	114	10,731	101
Construction RPR	3,600	44			??	160	10,693	136
Total Estimate	**$ 47,000**	**572.00**	**$ 61,920**	**524.00**	**$ 87,060**	**1,134.00**	**$ 111,670**	**1,183.75**
	Assumed to bid both projects together	44 hrs. on-site RPR each station	Construction Admin and RPR costs and hours combined in estimate.	??? hrs. on-site RPR each station	Construction Admin and RPR costs combined in estimate.	160 hrs. on-site RPR each station		136 hrs. on-site RPR each station
Average hourly rate	$ 82.17		$ 118.17		$ 76.77		$ 94.34	
Approach								
Completeness, Validity of Response, Creativity	Response was prepared as detailed in the RFP. Proposal included additional thought and consideration on certain LS details.		Response was prepared as detailed in the RFP. The approach included a summary work plan for the project.		Proposal was complete and provided comprehensive description of project scope and delivery of services. The approach included a general work plan for the project, but proposes to confirm scope/deliverables by working closely with Village staff.		Proposal was prepared as detailed in the RFP. The approach included a summary of work and deliverables.	
Experience								
Similar Projects, Current Projects	Firm has completed several lift station projects, some recently.		Firm has completed several lift station projects in Wisconsin and Illinois.		Firm has completed several lift stations in Wisconsin.		Firm has completed several lift station projects in the area.	
Qualifications								
Staff Experience, Key Staff, Big Picture & Technical Ability, Familiarity with Village	Firm is familiar with the Village and its infrastructure and supplies qualified staff. A subconsultant is provided for electrical consulting services.		Firm supplies qualified and capable staff, including electrical consulting, from local and branch offices.		Firm represents an understanding of Village infrastructure and supplies qualified staff with experience in the Village for design services.		Firm supplies qualified and capable staff, including electrical consulting, from local and branch offices.	

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.11

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM: **KEITH DONNER, DIRECTOR OF PUBLIC WORKS AND UTILITIES**

ITEM DESCRIPTION: **CONDITION OF JONES STREET**

DATE/MTG: **PROPERTY & INFRASTRUCTURE COMMITTEE, MONDAY, APRIL 4, 2016**

POLICY QUESTION: Should the Board of Trustees recommend specific improvements on Jones Street?

RECOMMENDATION TO: No recommendation at this time.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☐ **Expenditure**	☐ Procedure	☐ Resolution

FISCAL IMPACT ANALYSIS:

☐ Budget Line Item:	10-03-53310-236
☐ Budgeted Expenditure:	???
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW: Village staff viewed condition of street on 3/23

BACKGROUND: Village staff was alerted to soft areas on Jones Street approximately 3/23, though staff was aware of potential issues on Jones and other streets in the south east part of the Village following rainfall and flooding conditions during the week of March 14. The condition of Jones Street and any specific improvements desired is being discussed at the April 4, 2016 meeting of the Property & Infrastructure Committee.

☐ Supplemental Briefer for Agenda Items under Consideration
☒ Attachment – E-mail string from 3/22/16 – 3/24/16.
2016 Street Maintenance plan as presented and approved at 3/01/16 PIC meeting.

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Keith Donner

From: Kevin Ostrowski
Sent: Thursday, March 24, 2016 9:21 AM
To: Keith Donner
Subject: Re: Jones Street

Keith,

Thanks for the update and putting it on the PIC meeting would be good.

Thanks

Kevin

> On Mar 24, 2016, at 8:17 AM, Keith Donner <kdonner@westonwi.gov> wrote:
>
> Kevin:
> Michael and Tony Skrzypchak took a look at Jones Street yesterday. The conversations are copied in between your last reply yesterday and this one.
> Jones is one of those rural streets that we always have a bit of heartburn having to throw resources at - very low traffic volume and long in length relative to the number of people on it. Also has tough sub grade (native soil) which needs to be removed to some extent and replaced and built up with larger stone (also called breaker run) and or sand lift and gravel. Tough to get good drainage in the northern 1/3 mile too since that entire area is impacted by how well the main thread of the Bull Junior is draining. Last week after the rain we had water over Shorey just east of Ryan and the Trap Club grounds were under water.
> As Michael indicates we really aren't going to be able to do a lot with it until things dry out. With today's snow it is possible we may end up having to do some temporary repairs.
> Every spring we end up with some unexpected impacts that we need to spend some maintenance or even capital replacement resources at. This is looking like one, but hopefully we can limit the area of repair. Streets in the more rural southeast parts of the Village (Shorey, Heeren, Weston Avenue between CTH X and Ryan, any gravel roads and Zinser south of Weston (except Ryan) are particularly vulnerable to the spring season frost out since they haven't been constructed to our current standards.
> We can put discussion of this on the agenda for our 4/04 PIC meeting if you like.
> I am out of the office today and until Tuesday. The snow yesterday
> and today is a good old-fashioned March blizzard. Hope all is well
>
> Keith
>
>
> _____
> _____
>
> -----Original Message-----
> From: Michael Wodalski
> Sent: Wednesday, March 23, 2016 12:18 PM
> To: Keith Donner <kdonner@westonwi.gov>

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> Subject: RE: Jones Street
>
> Keith,
>
> The bad spots appear to be in the first 1/3 mile of the street south of Weston Ave. This is similar to what Kmiecik looked like a few years ago with the grey clay pushing through the granite. The road will likely settle down in a few weeks as the frost lets out and dries out, but as time goes on the clay content in the surface of the street is growing. Right now, we're not able to grade it as it is too soft, any grading would just be ruined by the next car that drove through it, and would likely create a false sense of security for drivers on the road too. If you recall a few years back, a school bus got stuck in this road the same spring Kmiecik was having problems. We'll get it smoothed out as soon as we can, but for now it unfortunately is just how it is.
>
> From the 1/3 mile south to the end of the road, Tony said they did rebuild that when Don Smith was here, and we drove on that section of street and it is holding up very well (could probably use a fresh coating of granite or base though). If we were to reconstruct this section, dig out the clay, add a sand lift and then base my guess is it'd be about a 3 week project. It could be sooner due to having a shorter haul, but I'd rather err on the high side.
>
> In addition to Jones, Tony showed me some spots on Buska (a little north of Shorey) that have boiled as well. These spots at a minimum will need to be taken care of this summer as well. As we talked, perhaps it is worth putting together a list of these low volume but high needs roads and maybe start scheduling their replacements sooner rather than later?
>
> Thanks,
>
> Michael
>
> -----Original Message-----
> From: Keith Donner
> Sent: Wednesday, March 23, 2016 10:58 AM
> To: Michael Wodalski <mwodalski@westonwi.gov>
> Subject: FW: Jones Street
>
> I suspect we have repairs of some kind to make on Jones every spring? Any idea about its construction? My recollection is that Public Works "re-constructed" Jones in the Don Smith era. Can you check with Tony. Should we look at conditions today before we get snow? I will wait to hear back from you.
>
> Keith
> _____
> _____
>
> -----Original Message-----
> From: Kevin Ostrowski
> Sent: Wednesday, March 23, 2016 11:50 AM
> To: Keith Donner <kdonner@westonwi.gov>
> Subject: Re: Jones Street
>

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> Thanks Keith and yes that is some of the areas. I know there is always a soft area right before the field to the west heading south on Jones.
>
> Kevin
>
>> On Mar 23, 2016, at 11:09 AM, Keith Donner <kdonner@westonwi.gov> wrote:
>>
>> Hi Kevin:
>> Sorry for a bit of a delayed response to your e-mail. I was out of the office yesterday.
>> I am checking into some of the history of Jones and current condition with Michael and Tony Skrzypchak today.
>> I suspect the bad areas you refer to in your e-mail have to do with locations where culverts and ditches had trouble handling the volume of water.
>> I'll let you know what our perspective is.
>>
>> Keith
>>
>> Keith Donner, P.E.
>> Director of Public Works & Utilities Village of Weston
>> 5500 Schofield Ave Weston, WI 54476
>> p. 715.359.6114 | f 715.359.6117 | m. 715-574-1537
>>
>> Want to receive the "This Week in Weston" e-newsletter? Sign up here!
>>
>>
>>
>>
>> -----Original Message-----
>> From: Kevin Ostrowski
>> Sent: Tuesday, March 22, 2016 4:31 PM
>> To: Keith Donner <kdonner@westonwi.gov>
>> Subject: Jones Street
>>
>> Keith,
>>
>> I have been receiving request to find out what the status is on Jones Street and if anything is going to be done with it this year with it or in the future.
>>
>> I know this street is gravel and when I have driven down it at different times of the year there are ruts and for cars the bottom out.
>>
>> Can you take a look at this and let me know if the area which is bad can be fixed.
>>
>> Thanks,
>>
>> Kevin

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**MICHAEL WODALSKI, DEPUTY DIRECTOR OF PUBLIC WORKS**
ITEM DESCRIPTION:	**SUMMER STREET MAINTENANCE PLAN**
DATE/MTG:	**PROPERTY & INFRASTRUCTURE COMMITTEE; MONDAY, MARCH 7, 2015**
POLICY QUESTION:	Should the Property and Infrastructure Committee approve the recommendation of the Deputy Director of Public Works to move forward with the proposed street maintenance projects and begin bidding projects for summer street work?
RECOMMENDATION TO:	I make a motion to approve the recommendation of the Deputy Director of Public Works to move forward with the proposed street maintenance projects and begin bidding projects for summer street work.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☐ **Expenditure**	☐ Procedure	☐ Resolution

FISCAL IMPACT ANALYSIS:

☒ Budget Line Item:	Surface Maintenance: Pg 93 of 2016 Budget Book
☐ Budget Line Item:	
☒ Budgeted Expenditure:	$450,000
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☒ WI Statue:	State Statute 61.54 Public Works Bidding requires that Public Works projects over $25,000 be bid
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW:	A draft street maintenance plan was presented last fall and included in the 2016 budget book.

BACKGROUND:

With the onset of Spring, staff was able to reevaluate street conditions following the winter and heading into the spring thaw. A few minor adjustments have been made to the street maintenance plan and staff felt it was important to update the Committee prior to moving forward with bidding projects.

☐ Supplemental Briefer for Agenda Items under Consideration?

☒ Attachments

Updated Street Maintenance Map and Budget Description

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2016 PRELIMINARY ROAD MAINTENANCE BUDGET (DRAFT)

3/3/16

Maintenance Treatment	Paser Rating	Length (miles)	Area (SY)	Estimated Cost	Contingency Projects		Comments
Chipseal ($1.60/SY w/Polymers)							
Robinwood	7-8	0.72	12,740.00	$20,384.00			Feith, Shawna, Danielle, Lora Lee
Rock Rapids	7-8	0.61	10,687.00	$17,099.20			Hewitt, Wenonah, Rock Rapids
Zirbel/Louart	7-8	0.45	7,856.67	$12,570.67			Roxann, Jacob, Cathy
Machmueller (Heuss to Jelinek)		0.36	7,261.67	$11,618.67			
McIntyre		0.09	2,287.78	$3,660.44			
Jelinek (BUS 51 to Normandy)		0.26	5,868.89	$9,390.22			
Progress Way/Service Ln/Zinser St.		1.09	20,875.56		$33,400.89		
Alta Verde (N of Jelinek) and E Neupert		0.49	7,617.22		$12,187.56		
Krueger/Edward/Gordon		0.49	6,580.56		$10,528.89		Maybe Micro?
Sternberg (Birch to CTH X)		0.47	8,333.33		$13,333.33		
Normandy (N of Jelinek)		0.49	8,633.33		$13,813.33		
Brehms		1.07	18,850.00		$30,160.00		
E Jelinek and Mesker		0.47	9,331.11		$14,929.78		Mesker (S of Schofield Ave) Curb and Gutter Area
Cutoff Rd							Put off until funds become available, 2017 maintenance
Foxtail, Birchwood, Terrier							
Sandy Meadow							
Abraham/Decker							
Double Chipseal							
Subtotal		***3.58***	***45,147.78***	**$74,723.20**	$128,353.78		
Reclamite/GSB-88 (Rejuvenators)							
Mount View West Area					Need to get a rough cost, not sure what it would be		Should start exploring the use of rejuvenators as a way to keep our good roads good. Rejuvenators restore the asphaltic content into pavements to keep them flexible and thus reduces cracking and aging.
Neupert							
Alderson St.							
Subtotal		***0.00***	***-***	**$0.00**	$5,000.00		
Micro-Surfacing ($2.70/SY)							
River Park		0.60	10,566.67	**$ 28,530.00**			DJ Ln, Kellyland, JM Place, LeDuc (may need to be an overlay)
Volkman St		0.35	8,375.00	**$ 11,306.25**			Cost Split with Rothschild ($22,612.50 is total cost)
Crosse Pointe							Birch, Franciscan, Meadow Rock, Stone Ridge, Crosse Pointe
Subtotal		**0.95**		**$ 39,836.25**			
Overlays ($60/ton & $0.40/SY Pulv.) Thin Overlay ($3.15/SY)							
River Pines		0.68	11,984.00	**$44,940.00**			Ultra Thin with some Curb Repairs: Pine Ter, River Pines Ct, Oak Ter
Weston Ave (Alderson to Birch)		0.50	7,040.00	**$22,000.00**			
Heeren St				**$7,500.00**			Value added warranty work from Shorey to Weston Ave
Sandy Ln (Hewitt to Alex)		0.33	5,717	**$59,682.00**			This road has broken up over the last two springs/winters. ~1000 tons of asphalt
Sandy Ln (Hewitt to Alan)			2,967		**$30,972.00**		
Ultra Thin (Sandy Ln - Alan to Alex)			3,167		**$13,680.00**		
Ultra Thin (Sandy Ln - Hewitt to Alex)			5,717		**$24,696.00**		It would be an either or situation
Barbican							
Community Center Dr.							
Subtotal		***1.51***		**$134,122.00**			Net difference between just overlay and pulverizing whole stretch
Rebuilds ($60/ton - Use force account labor)							
Kramer (Gusman to Trotzer)							61,440 SF --> 6,827 SY --> 3 in of Asphalt = 1188 Tons
Less 1/2 (Town Share)					$0.00		Cost of Asphalt only, labor would be split as well
Subtotal		**0.00**		**$0.00**	$0.00		
Cracksealing							
Major Streets				$65,000.00	$35,000.00		All streets to be chipsealed, micro surfaced and overlaid, check streets that have not yet received a treatment
Subtotal		**0.00**		**$65,000.00**	$35,000.00		
Patching							
Propane				$750.00			
Chipseal Prep & Pothole Patching				$3,000.00			Cold patch material
Surface patching				$35,000.00			Overlays and some full section repairs (Weston Ave, Callon Ave, Everest Ave, etc.)
Subtotal				**$38,750.00**			
Concrete Repair							
Ross Ave Bridge@ EC River				$35,000.00			Epoxy Deck and Fix Spalls
Full and Partial Depth				$80,000.00			Schofield Ave, Westfield Blvd, Birch St
Sidewalk				$5,000.00			
Curb Repair				$5,000.00			
Subtotal				**$125,000.00**			
Brush Chipping				**$0.00**			Moved to Recycling Fund
Material Processing ($3.00/ton)				**$0.00**			Hard Materials Handling Fund (53316) in 2016
Granite (For Shouldering) ($3.75/Ton)				**$0.00**			Shouldering Fund (53310-237) in 2016
Miscelleneous							
Seeding/restoration				$0.00			
Tools/Parts				$0.00			Costs should come out of respective funds: Landscaping (365),
Equipment Rental				$0.00			Operations Supplies (390), Equipment Rental (299)
Yard Waste Site Maintenance				$0.00			
Subtotal				**$0.00**			
TOTAL				**$477,431.45**	$168,353.78		
Plus							
LRIP Funds				**$27,915.79**			
NET TOTAL				**$449,515.66**	$168,353.78		
Contingency				**$484.34**	-$18,353.78		

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2016 Village of Weston Summer Street Maintenance

Legend

- Chipseal
- Micro Surface
- Overlay
- Concrete Repairs

0 1,500 3,000 6,000 Feet

1 inch = 2,500 feet

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.12.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM:	**KEITH DONNER, DIRECTOR OF PUBLIC WORKS AND UTILITIES** **MICHAEL WODALSKI, DEPUTY DIRECTOR OF PUBLIC WORKS**
ITEM DESCRIPTION:	**SNOW & ICE RESPONSE POLICY**
DATE/MTG:	**PROPERTY & INFRASTRUCTURE COMMITTEE, MONDAY, APRIL 4, 2016**
POLICY QUESTION:	Any recommended modifications to public information packet?
RECOMMENDATION TO:	No recommendation at this time.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☐ **Expenditure**	☐ Procedure	☐ Resolution

FISCAL IMPACT ANALYSIS:

☐ Budget Line Item:	10-03-53312
☐ Budgeted Expenditure:	$359,538
☐ Budgeted Revenue:	

STATUTORY / RULEMAKING / POLICY REFERENCES:

☐ WI Statue:	
☐ WI Administrative Code:	
☐ Case Law / Legal:	
☐ Municipal Code:	
☐ Municipal Rules:	

PRIOR REVIEW: Village staff, PIC approved in 2014

BACKGROUND: Village staff prepared a snow and Ice response policy and packet in 2013/2014. Periodically the packet and policy should be reviewed. The packet and policy are currently being reviewed and modified based on input from Village Administrator, Guild. Staff seeks any input from the Property & Infrastructure Committee.

☐ Supplemental Briefer for Agenda Items under Consideration
☒ Attachment – Snow & Ice packet

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Village of Weston:

Snow and Ice Control Strategy

November 2014

OVERVIEW

This packet of information contains highlights of the Village of Weston's snow and ice control strategy. It is our hope that we have proactively provided you with answers to questions you might have about responding to snow/ice events and related issues. The Department of Public Works is currently formalizing a comprehensive written policy to incorporate the items discussed in this packet and more explicitly describe the goals of responding to snow and ice events. Please be aware that the Department holds safety for the traveling public as the primary goal in responding to winter precipitation. However, also understand that maintaining safe travel does not necessarily correspond to bare pavement on all Village streets. Therefore, drivers must be prudent in observing weather and street conditions when traveling in the Village during the winter months. The Village's snow and ice control strategy must balance the need for safety with the reality of limited resources and the impracticality of maintaining ideal road conditions during the winter months. The Department of Public Works is continuously reviewing its snow and ice control response to make improvements. We invite your input as to your perspectives on our snow and ice control practices. Contact us however you prefer, but realize that we will not/cannot respond to anonymous correspondence. Thank you in advance and we wish you safe travels through the winter.

Keith Donner, P.E.
Director of Public Works & Utilities

Michael Wodalski, P.E.
Deputy Director of Public Works

Doug Behnke
Fleet Supervisor

Tony Skrzypchak
Street Operations Supervisor

Snow and Ice Event Responsibility

Village Public Works Operations Staff plows roads for the Village and Town of Weston. This includes:

- 292 Lane Miles between the Village and Town
  - (~50 lane miles per truck)
- 101 Cul-De-Sacs in the Village and Town
- 7 Well/Treatment Facilities for the Water Utility
- 14 lift stations for the Sanitary Utility
- Municipal Center and Public Safety Building
- 6 Parks

SNOW & ICE CONTROL PROCESS

Snow and Ice Event Response

- The Department of Public Works evaluates local conditions.
  - Weather forecasts and radar are monitored
  - Notification of local conditions is relayed to the Department of Public Works by the Everest Metropolitan Police Department during non-regular working hours.

The Conditions Necessary to Call out the Plows

- If streets become….
  - "White" (i.e., snow covered)
  - Slippery

What Gets Done

- The Department of Public Works makes a judgment as to:
  - Whether to respond
  - When to respond
  - What level of effort is necessary.

What Gets Done

All winter precipitation events are different. Factors in determining what needs to be done include:

- Type and amount of precipitation – current and forecast*
- Air temperature – current and forecast
- Pavement temperature
- Humidity
- Wind
- Time of day

**For ease of explanation the discussion of response will focus on snowfall. Obviously other forms of precipitation also require response based on experience and judgment.*

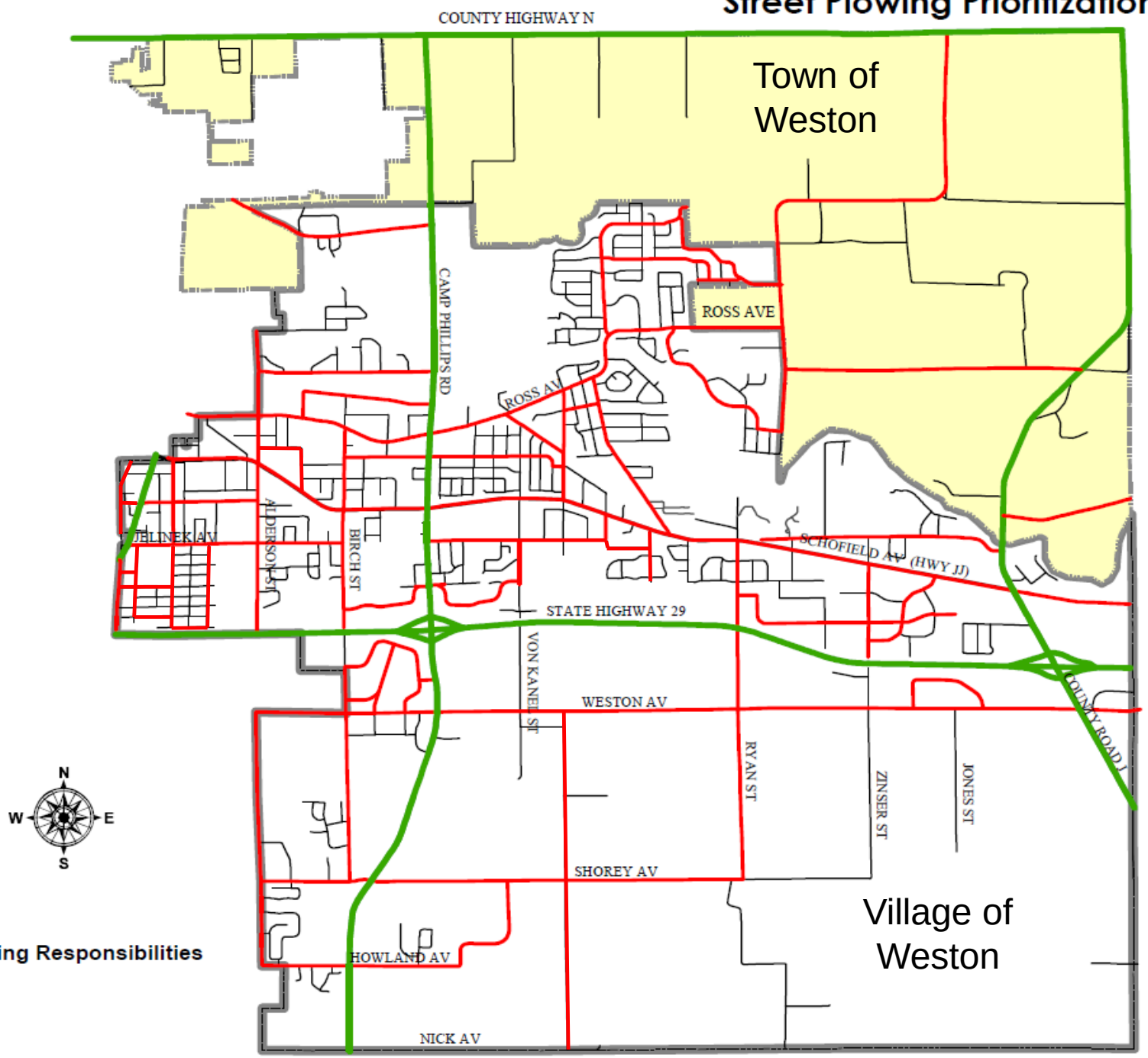
3 Levels of Response

- Level 1 – Any event up to 1” of snow that only requires that major thoroughfares be plowed/salted/sanded.

- Level 2 – An event of between 1” and 3” of snow that requires plowing/salting/sanding on all streets. Cul-de-sacs and sidewalks are not cleared for a level 2 event unless it is during non-overtime work periods and snow has stopped falling.

- Level 3 – An event of 3” or more of snow that requires plowing/salting/sanding on all streets.

Street Plowing Prioritization



Legend

Thoroughfares and Plowing Responsibilities

- Village of Weston
- Marathon County

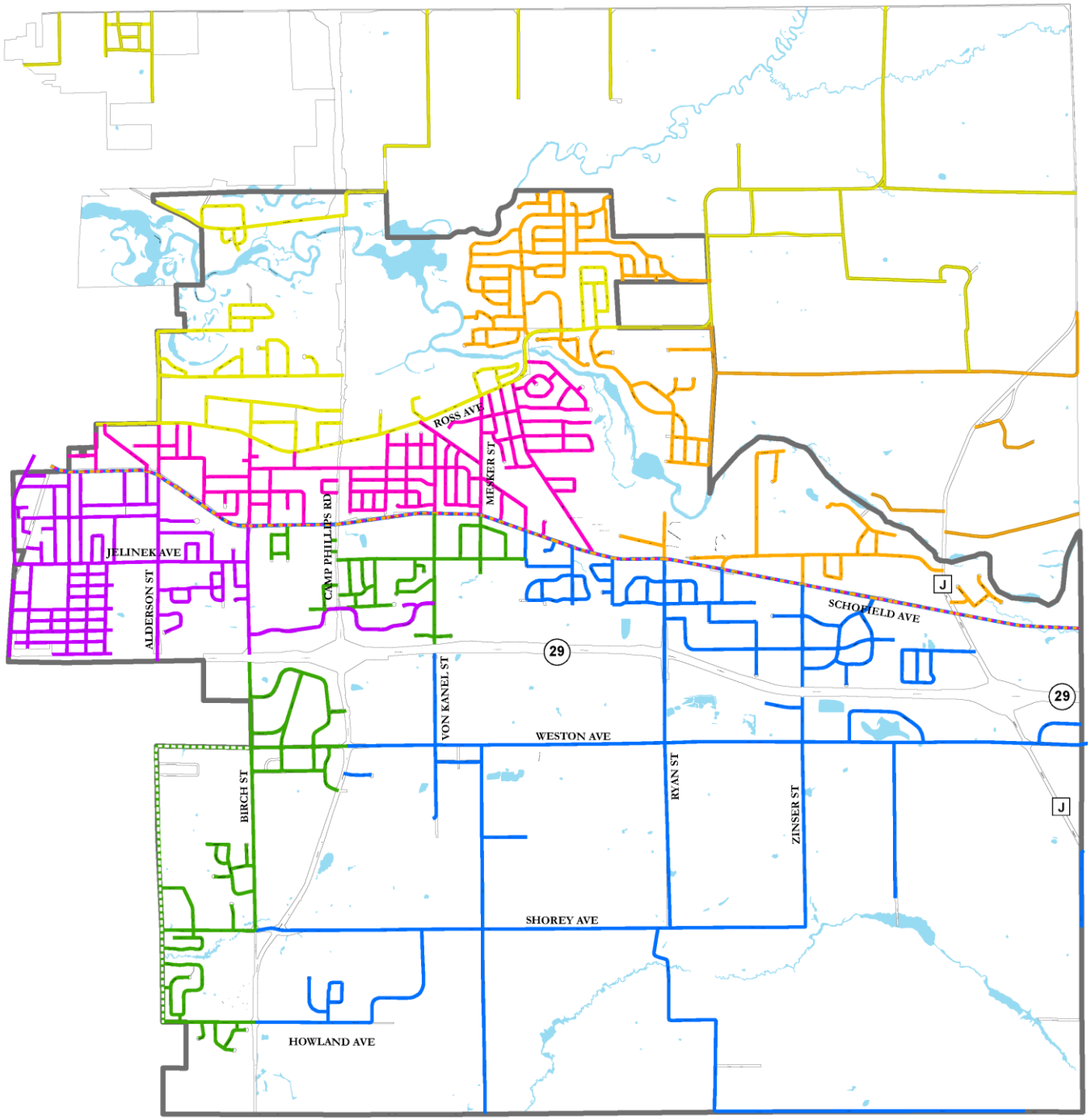
Snow Plow Routes

- For Level 2 and Level 3 event response snow plow routes are addressed in 2 components.
  - The main thoroughfares that would be cleared in a Level 1 response (also referred to as the “salt route”) are cleared first.
  - Once the “salt route” is cleared the staff begins to work on the neighborhood streets on the routes.

Snow Plow Routing

- Each of the 6 single-axle plow trucks is assigned a plowing route in the Village/Town. These trucks are equipped with a front and side(wing) plow, a dump box for hauling salt/sand and a spreader to apply the salt and sand.
- Routes are comprised of main thoroughfares and neighborhood streets. The main thoroughfares are typically referred to as the “salt route” and cleared first.
- Once the “salt route” is cleared the crew begins to work on the neighborhood streets on their route.

2013 Snow Plowing Routes



Legend

Weston Snow Plow Routes

- Truck 9 Plow Route
- Truck 10 Plow Route
- Truck 17 Plow Route
- Trucks 17, 29, 69 Plow Route (Schofield Ave)
- Truck 29 Plow Route
- Truck 60 - Shared with Rothschild
- Truck 60 Plow Route
- Truck 69 Plow Route
- Village Boundary
- Town Boundary

0 0.25 0.5 1 Miles

N W E S

When to Respond

- Ideal Snow Storm
  - Snow falls between the time most people get home for the day and 4:00 A.M. the next day.
  - No snow during event response.
  - Not on weekends of holidays

- Reality
  - Snow falls anytime of day, week, month, etc.
  - Response has to take place while snow is falling.

- The first goal is to have thoroughfare streets passable by the time people have to drive to work and school ≈ 7:00 A.M.
- The 2nd goal is to have all streets cleared by the time people go home for the day.

Sand and Salt Use During a Snow Event

The Village applies sand and salt on major thoroughfares and on hills, curves and intersections. Depending on the temperature either sand or salt is used. Except for major streets such as Schofield Ave, salt and/or sand is not applied continuously along the entire route in an effort to reduce expenses and reduce chloride infiltration into groundwater and runoff to surface water.

In order for salt to be effective pavement temperatures need to be around 20 degrees or higher. A salt brine is created as traffic drives over the granular salt and the brine is then able to aid in the snow melting process by lowering the freezing temperature of water.

At temperatures below 20 degrees, salt is no longer effective and the Village then applies sand to provide improved traction on snow and ice covered roads.

Cul-de-Sacs

There are over 100 cul-de-sacs in the Village's street system. Current practice is to plow cul-de-sacs with loaders and 1-ton pick-ups to minimize windrows of snow that would otherwise be created with the larger dump trucks. Regardless of how cul-de-sacs are plowed they take a considerable amount of time – between 10 and 15 minutes each – to clear.

This translates to between 1,200 and 1,500 minutes per event, or ≈20 - 25 hours, exclusive of transit time. (This accounts for a 6 to 8 hour shift with the 1-ton trucks and loaders to clear cul-de-sacs). For this reason **cul-de-sacs are not typically cleared during a Level 1 event and are deferred to non-overtime shifts for a Level 2 snow event once snowfall has stopped.**

Another problem to deal with on cul-de-sacs is the limited area to bank snow at the street due to the pie-shaped lots. More frequent snow removal is necessary on cul-de-sacs. Since cul-de-sacs require a disproportionate amount of resources to clear as compared to connected neighborhood streets, the goal is to minimize the additional costs.

Steps the public can take to aid the snow plowing and removal process:

- Stay at least 200 feet behind a snowplow
  - These pieces of equipment frequently stop and backup (especially at intersections)
- Never pass a plow truck on the right side while the truck is clearing roads or spreading ice control
- Do not park your vehicle on the street during a snowfall until the street has been plowed curb to curb (shoulder to shoulder) or if there is a snow emergency
- Do not place garbage/recycling containers in the street or boulevard, these should be placed in the driveway approximately 4 feet from the edge of the street pavement.

RESOURCES AVAILABLE

Snow Plowing Equipment Fleet

- (6) Snowplows w/wings
  - (equipped with sanders/salters)
- (3) Front End Loaders
  - (intersections, cul-de-sacs, wide streets, load salt/sand)
- (1) Road Grader
  - (Hospital Area, Business Park)
- (4) 1 Ton pick-ups
  - (cul-de-sacs, wide intersections, Utility Facilities, Municipal Parking Lots)

Snow Plowing Manpower Pool

- 13 trained single-axle plow drivers
- 12 trained Loader Operators
- 6 trained Grader Operators
- 17 One-ton Pick-up Operators
  - 13 employees for a full Level 3 storm event response.
  - Employees drawn from a pool of 9 “street” employees, 2 “park” employees, 3 “utility” employees, and 2 administrative staff for backup.
  - Overall there are normally 14 total employees to choose from

Common Resource Needs for Various Response Levels

RESPONSE TYPE	RESOURCES ASSIGNED
LEVEL 1 – "SALT ROUTES" only Snowfall up to 1"	6 - Single-axle dump trucks with salt/sand spreading capability
LEVEL 2 – All streets except that cul-de-sacs are deferred during emergency/non-scheduled responses. Snowfall between 1" and 3"	6 - Single-axle dump trucks with salt/sand spreading capability 1 – Grader 2 – Loaders
Level 3 – All streets and cul-de-sacs Snowfall of 3" or more. (Cul-de-sacs may be deferred until snowfall has stopped).	6 - Single-axle dump trucks with salt/sand spreading capability 1 – Grader 2 – Loaders 4 – One-ton pick-ups

DETAILS

EQUIPMENT FLEET

6 “Workhorse” Plow Trucks (Single-Axle Dump Trucks)

- These vehicles are equipped with:
  - a front mounted plow and a wing (side) plow,
  - a dump box for holding salt/sand,
  - and a spreader for applying the salt/sand.

  These trucks are responsible for clearing all streets within the Village and Town of Weston. (~292 Lane Miles or just under 50 la

Snow Plowing Equipment
Single Axle Dump Trucks

Truck #9: 1999 International
Scheduled for Replacement in 2015

Truck #10: 1999 International
Scheduled for Replacement in 2015

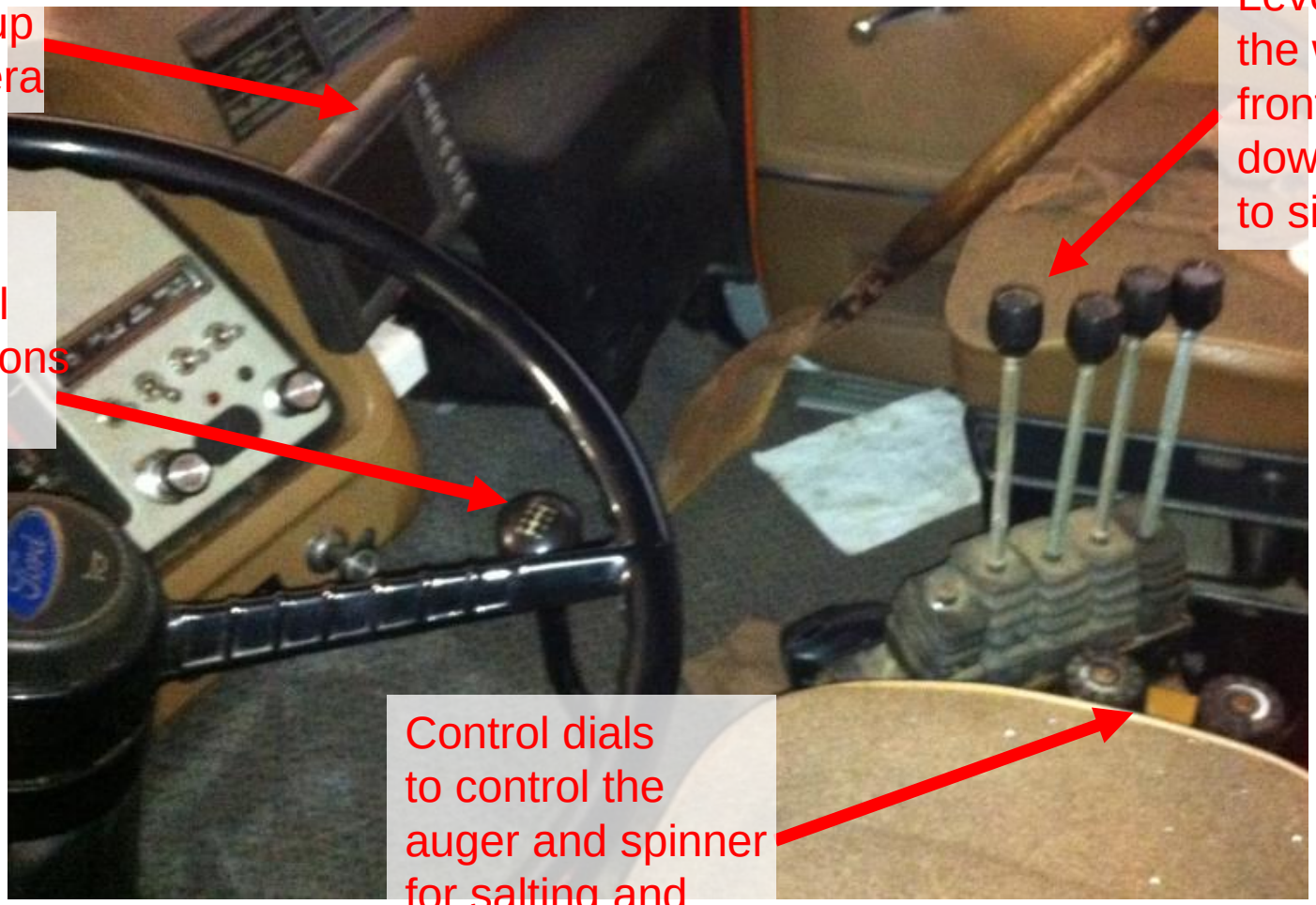
Truck #17: 1993 Ford
Scheduled for Replacement in 201

Truck #29: 2007 Sterling
Scheduled for Replacement in 2019

Truck #60: 2000 Sterling
Scheduled for Replacement in 2014

Truck #69: 2005 Sterling
Scheduled for Replacement in 2018

The Cab of a Plow Truck



Plow Operator Challenges

The previous slide shows the interior of a single axle dump truck cab. Please consider that a snow plow operator must be constantly vigilant for conflicts along the route that include mailboxes, moving traffic, and parked cars.

At the same time they must be monitoring the rate and location of salt and/or sand application with the interior controls. Frequently this is being done during a snow fall event. There is a combination of physical and mental stress, that any of us who has traveled in a snow storm can appreciate.

Snow Plowing is assisted by additional pieces of equipment to increase productivity and reduce the amount of time to clear the streets.

- A grader, End Loaders, and Pickup/1-Ton trucks are used to aid in snow removal due to the amount of cul-de-sacs and wide intersections. This allows the main plow trucks to make one pass down the street instead of having to back up and maneuver to clear out cul-de-sacs, dead ends, and intersections.

Motor Grader Use for Snow Plowing

- Used around the St. Clare's Hospital area and in the Business and Industrial Park where streets are wider because of the wider blade.
- Graders are best able to get to bare pavement while plowing due to the downward pressure of the blade.

Front End Loaders
Used for Snow Plowing and Removal

- 1989 John Deere
  - Primarily used for loading sand/salt onto Plow Trucks
- 1994 John Deere and 2004 John Deere
  - Used to plow cul-de-sacs, intersections and aid in the removal of snow in the middle of streets to allow plows to make one pass in each direction.
  - Loaders are also used to tow our plow trucks back to the shop in the event there is a breakdown or a truck ends up in the ditch.
  - This equipment is typically assigned to the mechanics due to this more flexible nature of their use in a snow event.

1-Ton and Pick-up Trucks used for Snow Plowing

- 1-Tons and Pickups
  - The Village has 4 one-ton routes
  - These trucks are used to plow cul-de-sacs and intersections.
  - This allows the larger equipment to work more efficiently by leaving the more detailed clean up for these smaller trucks.
  - Some of these routes overlap with the loader route that is driven by our mechanic since the mechanic isn't always able to stay on their route due to breakdowns of other vehicles.
  - These trucks also plow out well houses, sanitary lift stations, and Village Parking Lots.

MAILBOXES

Mailbox Policy

Mailboxes are allowed to be placed in street right-of-way as a privilege. They need to be placed so as to minimize, as much as possible, potential interference with the municipality's ability to maintain the street and they are subject to being damaged by vehicles using the right-of-way.

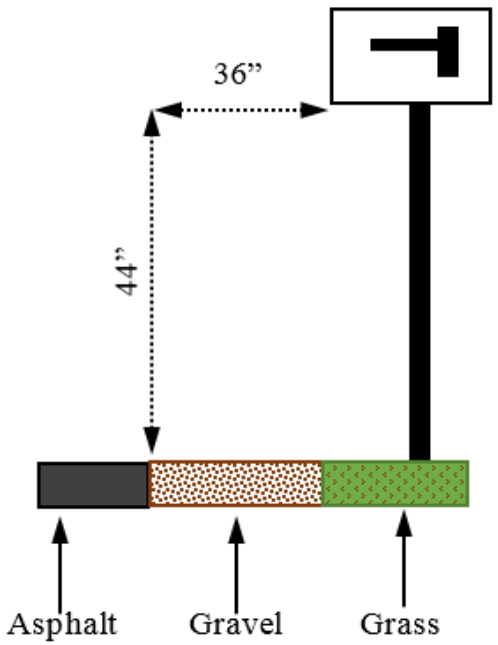
The Village tries to plow as close to mailboxes without hitting them. Mailboxes are typically either hit directly by the plow, by snow/slush coming off of the plow blade, or by snow removal equipment striking frozen snow or ice surrounding the support post.

If a driver knows that a mailbox has been hit, the driver will let staff know by the end of their work shift. If your mailbox has been hit you may call the Village as well to report it. In most cases the Village will provide a temporary mailbox for the property for the remainder of the winter if the current mailbox is no longer functional.

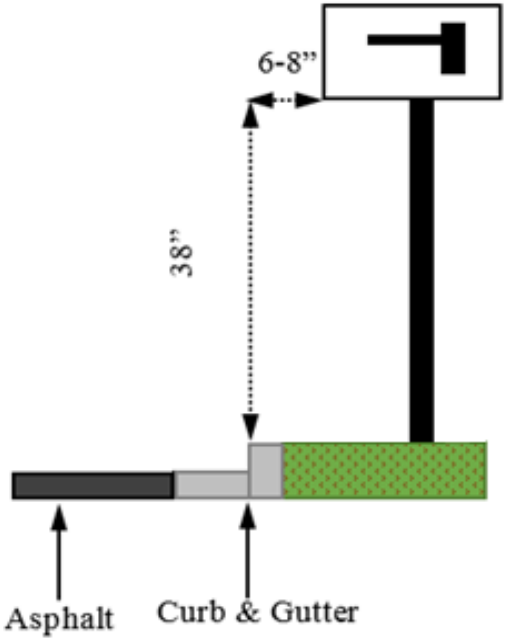
Reports of mailbox damage will be investigated. If the mailbox is found to have been installed correctly and was hit directly by a plow the Village will reimburse the owner up to $50 for a replacement mailbox. The Village recommends the use of a wood 4X4 post with a metal or wood mailbox. Plastic mailboxes become brittle over time and are not able to withstand the force of snow coming off of a plow blade.

Proper mailbox installation guidelines are on the following pages.

Mailbox Installation



Rural Road



Urban Road

DETAILS

CLEARING INTERSECTIONS

Plowing Sequence

6 Snow plow routes have been established. These routes are comprised of priority (thoroughfare) streets and secondary (neighborhood) streets. The priority streets are cleared first. These are main thoroughfares such as Schofield Ave, Ross Ave, Alderson St. Jelinek Ave, Weston Ave, etc. On the routing maps you can see this means that snow plow drivers need to drive past the secondary streets in order to clear the primary streets. Thus, extra time is taken to then drive on streets that have already been plowed in order to reach unplowed streets.

In order to allow the single-axle plow trucks to be dedicated to clearing the primary and secondary streets, support snow removal equipment is assigned to take care of cul-de- sacs and widening of intersections. This is more efficient in that it allows the single axle plow trucks to continue traveling forward, minimizing backing maneuvers that would otherwise be needed to clear small areas like intersections and cul-de-sacs. Consider that if the single-axle plow trucks even spent just 3 minutes to plow out the cul-de-sacs, that would translate to 5 hours of additional time spent solely plowing cul-de-sacs. This would then add (on average) an extra hour to plow each of the 6 routes. 1-ton trucks and the front end loaders are assigned to help to clear out large intersections in addition to cul-de- sacs. If this practice were not done the plow trucks would need to back up at every intersection in order to carry all of the snow around the corner and not leave a “pie” of snow in the middle. Sometimes these pies are left, but the pies left are much smaller than what they potentially could be.

“Pie” of Snow left at a typical “T” intersection. A possible hazard is created for drivers driving Westbound if not cleared.

To properly clear the intersection the plow driver would either need to first plow straight through the intersection and then come back and make the right turn to head north, or the driver would make the right turn and then come back to take out the middle at a later time. To eliminate this maneuver for the single axle plow trucks, smaller trucks or loaders are assigned to remove the middle of intersections in order to allow our plow drivers to keep moving in a forward direction.

SNOW REMOVAL

The Purpose of Snow Removal is Three Fold

- Remove snow for better visibility along our streets.
- Removing Snow from Boulevards Provides more storage area for when the next snow storm hits.
- Removing Snow from Boulevards minimizes the amount of snow that is present to melt in the springtime, thus reducing the chances of localized flooding.

Snow Removal Process

- This process includes:
  - 1 Grader
  - 1 Loader with a plow blade
  - 1 Loader with a snow blower attachment
  - At least 4 Dump Trucks
  - Possibly 1 1-Ton Truck to Clean up the street after the Loader with the snow blower

Step 1: Grader Removes Snow that has built up on Banks

Step 2: Loader with Plow Blade Pushes Snow Into a Pile

Step 3: Loader with Snow Blower puts snow into Dump Trucks

SCRAPING STREETS

- Most streets will not have bare pavement through the winter and a layer of snow and ice builds up over multiple snow/ice events.
- Dependent on the number and timing of snow/ice events and weather during and after these events, a thick layer of compacted snow and ice can develop. (This was the case during the winter of 2012/2013).
- Equipment cannot do an effective job of removing the ice/snow if it is bonded to the pavement surface.
- As temperatures warm the pavement bond breaks and it is desirable to scrape the snow/ice layer to promote proper drainage and expose the pavement as the driving surface.
- The most effective equipment for this purpose is the grader, since it is capable of applying downward force to help break the ice/pavement bond.
  - The plows on the single-axle dump trucks cannot apply downward pressure as they simply ride the surface of the snow and ice, unless temperatures have warmed to near or above freezing and a layer of slush has developed.

Equipment Used for Scraping Streets

The Grader is best able to scrape the streets due to the ability to apply downward force as shown above.

An End Loader with a 4 in 1 bucket is capable of scraping streets, however the finished product is not as clean as the grader. Loader with bucket is shown below.

Challenges

- The Village has an aged equipment fleet that is in need of replacement. Funding of replacement equipment is a challenge in the current economic conditions.
- The size of the equipment fleet and snow plow routes have not increased since 1996 even though the number of miles of streets has increased by ~30 centerline miles over that same time. These additional streets are also in most cases wider or are 4-lane roads which are located around the hospital and in the business parks. Due to the extra width a truck needs to make multiple passes in order to clear the entire lane.
  - This is roughly equivalent to an additional snow plow route. One extra single-axle truck could reduce event response time by an hour overall.
- An extended time snow event stretches the Village's resources further and more delay can occur if any equipment breakdowns are experienced.

Contact Us

The Department of Public Works wishes to provide the most effective and responsive snow and ice control possible with the resources it has available. Although we are constantly evaluating our performance, we welcome your input as to the process and our effectiveness from the point of view of our customers/taxpayers.

We welcome your input. However, as stated at the outset, we will not/cannot respond to anonymous contacts. Please contact us at (715) 359-6114 or via the Village Website at http://westonwi.gov

Village OF WESTON

SNOW AND ICE CONTROL POLICY

Keith Donner, P.E.
Director of Public Works
March 3, 2014
Revised:
Revised:

Michael Wodalski, P.E.
Deputy Director of Public Works

INTRODUCTION

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Due to its geographic location, the Village of Weston is subject to freezing rain, ice and snow anytime during the fall, winter, and spring months; a.k.a. winter precipitation events. Normally, winter storms can be expected during the months of November thru April. The Village of Weston's Public Works Department is responsible for keeping vehicular and pedestrian traffic moving safely on the Village of Weston's approximately 260 lane miles of streets, as well as the approximate 30 lane miles of streets in the Town of Weston which the Village is currently contracted to maintain.

The purpose of this policy is to articulate the procedures and policies for the maintenance of public areas in response to winter precipitation events which create snow and ice related conditions in the Village of Weston. This policy replaces all prior written or unwritten policies regarding winter precipitation response and/or snow and ice control. This policy does not affect or override existing ordinances or laws pertaining to sidewalks, parking, or other public areas. The reference to winter precipitation events is meant to interchangeably apply to snow and ice control as it is used in this policy or elsewhere in related documents.

The intent of establishing a snow and ice control policy is to provide a uniform understanding of the priorities and procedures used to respond to winter precipitation events which create snow and ice related conditions. Each winter precipitation event presents unique challenges and since there is always the potential for unforeseen circumstances, such as equipment breakdowns and infinitely variable environmental conditions, the time required to reach completion for each winter precipitation event will also vary. It is not possible, nor is it the intent, for this policy to prescribe, in advance, time constraints within which a level of completeness is to be achieved by the Department in response to any particular winter precipitation event or the resulting snow and ice conditions.

WINTER PRECIPITATION/SNOW AND ICE CONTROL RESPONSIBILITY

The Village of Weston Public Works Department is responsible for approximately 290 lane miles of streets in the Village and Town of Weston plus other public areas during winter precipitation events. The Department has divided the Village into six areas or six plowing routes for assigning response resources. Each of the six areas contains a mixture of highest priority (priority A Routes) plowing and sanding/salting routes and other lower priority Village streets. Marathon County is responsible for the maintenance of the main travel lanes of CTH X/Camp Phillips Road, CTH J, CTH N, and Business Highway 51 within the corporate limits of the Village and Town of Weston.

EVENT RESPONSE STRATEGY

The allocation of resources and tactics employed by the Department in responding to a winter precipitation event and the overall time taken to respond to an event is dependent on many factors that vary for each event. As with any response to an event involving unpredictable conditions there is judgment applied to the allocation of resources. However, the prioritization for responding to a winter precipitation event is further described in this policy.

Planning and preparing for each snow and ice control project is made difficult by the uniqueness of each storm. No two storms are ever identical. Factors such as rate of snowfall, moisture content, accumulation, temperature, time of day and wind velocity determine the uniqueness of each storm. The Village's snow and ice control program must be definite enough in nature to establish systematic procedures for responding to any snow and ice control event, while being flexible enough to accommodate the unique aspects of each storm. Many factors affect the impact of a storm on the community.

During most storms the greater the snow accumulation the greater the problems, particularly in areas where snow must eventually be hauled away. A storm during high traffic times is more difficult to clear than the same storm during a weekend. High winds will cause streets to fill up quickly again with drifted snow requiring additional effort on the part of the Public Works Department. The temperature at the time of a storm will also affect conditions. Snow falling on warm pavement will disappear with little effort. But, a moderate storm, along with a prolonged sub-freezing period, will greatly increase the required removal effort. Also, light, dry snows handle more easily than heavy, wet snows.

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Receiving and analyzing weather information is probably the most critical link for a successful snow and ice control program. Making a decision at the correct time is vital to the success or failure of the total operation. At the present time, the Public Works Department depends on television forecasts and internet weather service to help with storm control decisions.

Determination of the Need for Response

The Street Operations Crew Leader assigned to the on-call responsibility is designated by the Director of Public Works as the first responder for a winter precipitation event. This first responder is given the authority to determine the proper allocation of resources to a snow and ice control event. The Village President or Village Administrator may also direct the Public Works Department to commence winter maintenance operations. Allocation of resources decisions will involve judgment as to whether to respond, when to respond, and what level of effort is needed.

Dependent on the conditions resulting from a winter precipitation event, the response of the Public Works Department varies. Not every winter precipitation event presents the same conditions, or requires identical response. Generally some type of response will be necessary if streets become snow covered and/or slippery. To assist in making the judgments as to strategy to use in a particular event, the first responder should rely on current weather conditions, weather forecasts, and reports from local law enforcement patrol officers. Factors to be considered include type and amount of precipitation (current and forecast), air temperature (current and forecast), pavement temperature, humidity, wind, and time of day.

Determination of Resource Allocation

The intensity of response required for snow and ice control is dependent on the amount of precipitation which occurs. To help the public better understand how resources are allocated streets are given prioritization, or hierarchy, for clearance, and precipitation events are categorized.

Prioritization of Response

Guidelines for prioritizing the allocation of resources have been established in advance of event response. Not every street is viewed or treated the same way. Plow routes include a mixture and balance of streets with different levels of priority for clearance. Plow routes also may vary in size dependent on available resources.

Priority A - streets are Village and Town thoroughfare streets which are those streets in the urbanized area classified system and other local streets of significance due to their role in providing access to St. Clare's Hospital, schools, and commercial districts. Included are all or parts of the following streets:

Village of Weston:

Alderson St	Alta Verde St	Barbican Ave	Bayberry St	Birch St	Callon Ave
Commerce Dr	Community Center Dr	Concord Ave	Corozalla Ave	Cranberry Blvd	Eau Claire Ave
Enterprise Way	Foothill Ave	Fox St	Fuller St	Franciscan Way	Highland Ave
Heeren St.	Howland Ave	Isaiah St	Janice Ave	Jelinek Ave	Machmueller St
McIntyre St	Mesker St	Ministry Pkwy	Neupert Ave	Northwestern Ave	Normandy St
Old Costa Rd	Progress Way	Quentin St	River Bend Rd	Ross Ave	Ryan St.
Sandy Ln	Schofield Ave	Shorey Ave	Sternberg Ave	Stone Ridge Dr	Teagan Ln
Volkman St	Von Kanel St	Weston Ave	Westview Blvd	Woodland Dr	

Town of Weston:

Gusman Rd	Hawthorne Ln	River Rd	Ross Ave	Kramer Ln	Kersten Rd
Lester St					

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Priority B – streets are the remaining Village and Town streets which are lesser-traveled collector and residential streets.

Priority C - streets and public spaces include cul-de-sacs, public sidewalks, parking lots, wells, sewage pumping stations, and parks maintained by the Department of Public Works. These streets are normally treated only after priority one and two streets are satisfactorily completed or have sufficient resources available and/or assigned to address.

The prioritization of streets been determined in such a manner that most residences are no more than four blocks from a Priority A street.

Event Categorization

Level 1 – is the occurrence of a snowfall of up to 1 ¼ inches. For a Level 1 event only Priority A streets will be cleared or otherwise treated.

Level 2 – is the occurrence of a snowfall of between 1 ¼ to 3 inches. For a Level 2 event, Priority A and Priority B streets will be cleared or otherwise treated during unscheduled time. Priority C areas will only be cleared or otherwise treated during normally scheduled work periods and after precipitation has ceased.

Level 3 – is the occurrence of a snowfall of greater than 3 inches in depth. For a Level 3 event, clearance or other treatment is required regardless of the timing of the event.

Response levels may vary depending on whether the snowfall is combined with freezing and icing conditions which would make the public ways difficult to travel.

Precipitation other than accumulating snow, such as freezing rain, will require the exercise of judgment as to the necessary treatment(s) to apply, if any, such as salt, sand, etc.

EMERGENCY SERVICES CONSIDERATIONS

During snow and ice conditions, emergency calls from the Police and Fire Departments regarding accidents, medical or other emergency situations are given top priority for whatever assets are needed to support their emergency response efforts. **Public Works Department personnel do not respond to unverified "emergency" requests direct from the public. Public Works employees will not pull or tow stranded motorists, but will notify the proper authorities that can be of assistance.**

OTHER CONSIDERATIONS

Any complaints regarding snow and ice control measures shall be forwarded to the Public Works Department during normal work hours of 7:30 a.m. to 5:00p.m. on weekdays. Phone number: (715) 359-6114.

A map showing priority routes is available at the office of the Director of Public Works located in the Municipal Center.

The Village will not salt, sand or plow private property and cannot shovel out ridges in driveways caused by the snowplows. Snow removal from driveways and sidewalks is the property owners' responsibility.

MAILBOXES

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Operators are instructed to be cautious around mailboxes. In most cases a properly installed mailbox will permit a snowplow to clear the snow underneath it. Most cases of damaged mailboxes are caused by heavy snow hitting the box. Payment for the replacement of mailboxes by the Village of Weston shall be limited to a $25.00 payment. Payment shall be made upon confirmation by the Public Works Director or his designee that the mailbox was actually hit or damaged by a snow plow and upon receipt of an invoice from the property owner as proof that a replacement mailbox was purchased. The Village of Weston will not supply mailboxes or posts. Owners are responsible for installation of replacement mailboxes. Village employees will not replace mailboxes.

PERSONNEL AVAILABLE FOR WINTER MAINTENANCE OPERATIONS

All full time employees of the Street, Parks and Utilities Departments are expected to be available from November 1st to April 1st to assist in snow and ice removal operations, subject to departmental policies on paid time off. Employees who know that they will be unable to respond to a snow emergency shall make the Director of Public Works, or the street operations first responder aware of the situation so that any necessary modifications in resource acquisition and allocation can be anticipated.

OVERTIME POLICY

The determination of when to use overtime in the removal of snow or ice shall be made by one of the following:

Director of Public Works or Street Dept. Supervisor
Village Administrator
Village President

The need for overtime will be dependent on the severity of a storm. Maintenance of most Priority C areas shall not require overtime, or unscheduled work. The following degree of maintenance may require overtime:

Priority A: Streets should be kept passable at all times if possible.
Priority B: Streets should be open to travel by plowing, salting or sanding within 12 hours after a storm.

In the following sections the time allotted for removal of a storm shall include Saturdays, Sundays or holidays which may require overtime.

EQUIPMENT AVAILABLE FOR WINTER MAINTENANCE OPERATIONS

6 - Trucks with plows, wings and spreaders.
2 - End loaders (with a plow option)
1 - Motor Grader
4 - One-Ton trucks w/plows
1 – Pickup truck with a plow
1 – Multi-purpose tractor with snow blower attachment.

PLOWING

Plowing consists of moving snow to either side of a street or public area after which it may be loaded and trucked to a remote area. Plowing should be accomplished according to designated routes and priorities.

Clearance Goals

Priority A Streets: Two lanes of traffic open within 4 hours of response start and thereafter.
Priority B Streets: Two lanes of traffic open within 12 hours after a storm ends and thereafter.

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Priority C Streets: Open to travel within 24 hours after a storm ends and thereafter.

In severe weather conditions where there is danger to operators or it is not practical or cost effective to Continue plowing; snow and ice control operations may be suspended.

PRIVATE PLOWING

No snow or ice removed from private property shall be deposited in any public way or areas expected to be cleared by personnel from the Village of Weston. This would include any of the following, which are prohibited:

- Pushing snow or ice across a street or walk.
- Depositing snow or ice on a public way, where expected to be maintained for pedestrian or vehicular traffic.
- The blowing of snow or ice onto vehicle or pedestrian travel areas.

Any of the above are dangerous and could cause injury or accidents. Violation of any of the above may result in a forfeiture action against the property owner, resulting in a fine. Removal may also be made by the Village, through notification of the property owner, with a penalty plus actual removal costs being assessed against the property.

SALTING

Salting shall provide placement of sodium chloride upon a snow or ice surface to remove accumulation when temperatures are below freezing. Salt shall be used only when absolutely necessary as determined by the Director of Public Works or his designee in areas of high volume traffic or dangerous conditions (most salt is applied at hills, curves and intersections). Salt may have adverse side effects on the environment and shall be used with this in mind. Salt is not effective below a certain temperature (20°F) adjusted by the amount of available sunlight. With favorable temperatures, salt can be used to melt up to 2" of snow and will prevent the bonding of compacted snow to pavements resulting in cleaner plowing jobs. Due to the expense the Village will not apply salt to lesser traveled collector and residential streets, unless severe icing requires its use.

SALT AND SAND MIXTURE

Sanding is done to provide a traction surface on packed snow or ice and shall be applied only in areas of high traffic movement or unsafe areas as determined by the Director of Public Works or his designee. Since the salt/sand mixture contains only 5-15% salt, to keep the sand from freezing, sanding is not done to try and melt snow or ice. Sanding of streets can cause a buildup of sand in storm sewers and points of discharge, which could require additional maintenance or environmental concerns. Therefore sand shall only be used as absolutely needed. Sand and salt mixture is available to Village residents at the Village garage.

SNOW REMOVAL

The existing snow disposal operations include the use of a front-end loader or a snow blower to load snow into dump trucks. Snow is hauled to various sites throughout the Village. Snow is removed from areas as needed and as time allows throughout the winter. Snow is removed in order to create room for future snow storage throughout the winter and in the spring time snow removal helps reduce the amount of snow melt and associated flooding experienced in a specific area.

PARKING:

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For the purpose of this section parking is defined to mean permitting a vehicle to remain unattended, but shall not include the temporary stopping of a vehicle by a doctor on an emergency call, police, fire or other emergency vehicles, or business vehicles being used for normal delivery or pickups.

WINTER PARKING REGULATIONS:
Sec. 82.107 (a) Village of Weston, Code of Ordinances.

When signs have been erected at or reasonably near the village limits as provided in Wis. Stats. § 349.13, no person shall park any vehicle for a period of time longer than 30
minutes between the hours of 2:00 a.m. and 6:00 a.m. of any day, from October 31 to May 1, except physicians or surgeons, when parking is reasonably necessary on emergency calls.

SNOW EMERGENCY

A snow emergency shall exist whenever there shall be an accumulation of four (4) or more inches of snow during a twenty-four (24) hour period and such accumulation interferes with the safe and efficient movement of traffic or impairs the ability of emergency vehicles to travel safely over the streets of the Village of Weston. Such emergency shall continue in effect for 24 hours after snow has ceased to fall, or until such time as the snow has been removed from the streets or highways within the Village, or until the Director of Public Works or his designee rescind the snow emergency.

DECLARATION OF SNOW EMERGENCY:
Sec. 82.107 (C)(1) Village of Weston, Code of Ordinances.

A snow emergency may be declared to exist by the Director of Public Works or his designee, or by the Chief of Police by giving notice to the news media. A declaration shall be a service aid only and not a duty on the part of said officials.

SNOW EMERGENCY PARKING REGULATIONS:
Sec. 82.107 (C) Village of Weston, Code of Ordinances.

After notice is given, during the period of such snow removal emergency as so declared, no vehicle shall be parked, stopped or left standing on any public street or alley within the village.

Approved by the Weston Village Board on: Month Date, 2014

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SNOW PLOWING PRIORITY ROUTES

Subject to mechanical condition of equipment, snow plowing of Priority A streets are currently assigned as follows:

ROUTE 9 TRUCK #9

Jelinek Ave from BUS 51 to Birch St	Normandy St from Schofield Ave to Jelinek Ave
Volkman St from STH 29 to Priebe St	Alderson St from STH 29 to Schofield Ave
Birch St from Community Center Dr to Schofield Ave	Community Center Drive from Birch to CTH X
Barbican Ave from CTH X to Von Kanel St	Neupert Ave from BUS 51 to Alderson St

ROUTE 10 TRUCK #10

Ross Ave from Metro Center Dr to Kramer Rd	Kramer Rd from Ross to Kersten
Kersten from Kramer to CTH N	Northwestern Ave from CTH X to City of Wausau
Alderson St from Ross Ave to Mallard Ct	Eau Claire Ave from Alderson to CTH X
Bayberry from Ross to Concord	Concord Ave from Bayberry to CTH X

ROUTE 17 TRUCK #17

Schofield Ave (Entire length with trucks 29 & 69)	Sternberg Ave from Birch to Mesker St
Mesker St from Ross to Schofield Ave	Janice from Mesker to Fuller
Fuller from Ross to Schofield Ave	Corozalla from Ross to Mesker
Fox St from Norma to Schofield Ave	

ROUTE 29 TRUCK #29

Schofield Ave (Entire length with trucks 17 & 69)	Weston Ave from CTH X to Ringle Line
Shorey Ave from CTH X to Ryan St	Ryan St from Shorey Ave to Schofield Ave
Howland Ave from CTH X to Woodland Dr	Woodland Dr. from Howland Ave to Shorey Ave
Heeren St from Nick to Weston Ave???	Progress Way
Commerce Drive	Enterprise Way
Zinser St from Schofield Ave to STH 29	

ROUTE 60 TRUCK #60

Alderson St from Shorey Ave to Howland Ave	Weston Ave from Birch St to CTH X
Hospital Area between STH 29 and Weston Ave(Ministry Pky, Cranberry Blvd, Stone Ridge Dr., Westview Blvd, Franciscan Way, Birch St)	East Jelinek from CTH X to Municipal St Mesker St from Schofield Ave to E Jelinek Von Kanel from Barbican to E Jelinek

ROUTE 69 TRUCK #69

Schofield Ave (Entire length with trucks 17 & 29)	Sandy Ln from Ross Ave to Canoe St
Canoe St from Sandy Lane to Termini	Isaiah St from Sandy Ln to Walleye Dr.
Walleye from Isiah to Creel	Creel from Walleye to Quentin
Quentin from Portage to Kramer	Portage from Canoe to Quentin
Michael Dr from Alex to Cheryl	

ASSIGNED PLOWING ROUTES

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ROUTE 1 TRUCK #9
All streets: East of Volkman St., North of STH 29, South of Schofield Ave and West of Birch St. Community Center Dr. and Barbican Ave are also part of the route.

ROUTE 2 TRUCK #10
All streets including Ross Avenue North of Ross Avenue and West of the Eau Claire River, all streets off of Northwestern Avenue, and all roads in the Town of Weston North of Gusman Rd. All streets within the Powers Subdivision are part of this route as well.

ROUTE 3 TRUCK #17
All streets located between Ross Ave and Schofield Ave from the Western Village Border to and including streets from Fuller St to the Eau Claire River.

ROUTE 4 TRUCK #29
All streets south of STH 29 and East of Camp Phillips Road/CTH X. As well as all streets South of Schofield Ave and East of Municipal Street.

ROUTE 5 TRUCK #60
All streets South of STH 29 and West of Camp Phillips Road/CTH X. As well as all streets between Schofield Ave and STH 29 from Birch St to Municipal St, excluding Community Center Dr. and Barbican Ave.

ROUTE 6 TRUCK #69
All Village Streets located North of the Eau Claire River except for the Powers Subdivision, and all Town Roads south of Gusman Rd. Additionally all Village Streets East of Fuller St. and North of Schofield Ave.

Drivers will not deviate from their assigned routes until that route is completed or ordered to do otherwise by the Director of Public Works, Street Superintendent or the Village Administrator. Upon completion of their assigned routes drivers will check in with the Director of Public Works or the Street Superintendent for assignment to help in another area. No driver is excused from duty until the DPW or Street Superintendent is notified and all streets are cleared.

VILLAGE MAINTAINED SIDEWALKS and MULTI-USE PATHS

- Schofield Ave: Ryan St to BUS 51
- BUS 51: Jelinek Ave to Schofield Ave.
- Camp Phillips/CTH X: Howland Ave to Northwestern Ave
- Birch St: Weston Ave to Community Center Dr.
- Weston Ave: Camp Phillips/CTH X to Birch St.
- Kennedy Park: (Bounded by Alderson St, Neupert Ave, Alta Verde St, and Jelinek Ave)
- Public Safety Building: (Mesker St)

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – E.13.

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Village of Weston, Wisconsin
AGENDA ITEM COVERSHEET
Requested for Official Consideration and Review

REQUEST FROM: **KEITH DONNER, DIRECTOR OF PUBLIC WORKS AND UTILITIES**
MICHAEL WODALSKI, DEPUTY DIRECTOR OF PUBLIC WORKS

ITEM DESCRIPTION: **BRUSH & LEAF PICK-UP POLICY**

DATE/MTG: **PROPERTY & INFRASTRUCTURE COMMITTEE, MONDAY, APRIL 4, 2016**

POLICY QUESTION: Any recommendations for proposed public information packet?

RECOMMENDATION TO: No recommendation at this time.

LEGISLATIVE ACTION:

☒ Acknowledge/Approve	☐ Ordinance	☐ Proclamation
☐ Administrative Order	☐ Policy	☐ Reports
☐ **Expenditure**	☐ Procedure	☐ Resolution

FISCAL IMPACT ANALYSIS:
☐ Budget Line Item: _____
☐ Budgeted Expenditure: _____
☐ Budgeted Revenue: _____

STATUTORY / RULEMAKING / POLICY REFERENCES:
☐ WI Statue: _____
☐ WI Administrative Code: _____
☐ Case Law / Legal: _____
☐ Municipal Code: _____
☐ Municipal Rules: _____

PRIOR REVIEW: Village staff

BACKGROUND: Village staff is preparing a brush & leaf (a.k.a. yard waste) pick-up packet and developing a policy. The process has been difficult to explain historically due to the unpredictability of weather conditions and volume of yard materials placed by various properties. The process will benefit from better explanation of the process and setting out expectations for property owners as well as Village staff. The packet and policy are currently being reviewed and modified based on input from Village Administrator, Guild. Staff seeks any input from the Property & Infrastructure Committee.

☐ Supplemental Briefer for Agenda Items under Consideration
☒ Attachment – Yard Waste Policy and Procedures packet

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Village of Weston:
Yard Waste and Materials Pickup and Handling Procedures

March 2016

OVERVIEW

This packet of information contains highlights of the Village of Weston's yard waste pickup and materials handling strategy. It is our hope that we have proactively provided you with answers to questions you might have about these services and related issues. Each spring and fall, the Village provides curbside pickup to single family houses and multi-family units up to 4 units. Between the spring and the fall curbside pickup, the Village maintains a yard waste site at 8200 Ryan St. (1/4 mile south of Weston Ave and 1.75 miles east of CTH X). This site is open every day from spring thru fall.

The Department of Public Works is committed to providing quality and cost effective services to our residents. As such, there are certain things our residents can do to help the Village provide more timely services. The Village is continuously reviewing its policies and procedures to make improvements to our services. We invite your input practices. Contact us however you prefer, but realize that we will not/cannot respond to anonymous correspondence. Thank you in advance.

Keith Donner, P.E.
Director of Public Works & Utilities

Michael Wodalski, P.E.
Deputy Director of Public Works

Doug Behnke
Fleet Foreman

Tony Skrzypchak
Street Foreman

SPRING & FALL CURBSIDE PICKUP

What is Curbside Pickup?

- Twice a year the Village will pick up brush and yard waste (leaves and grass) from the side of the road.

- Brush and yard waste must be kept separate as two different crews pick up the material.
  - Mixing of the material will result in the material not being picked up by the Village.

When does Pickup Occur?

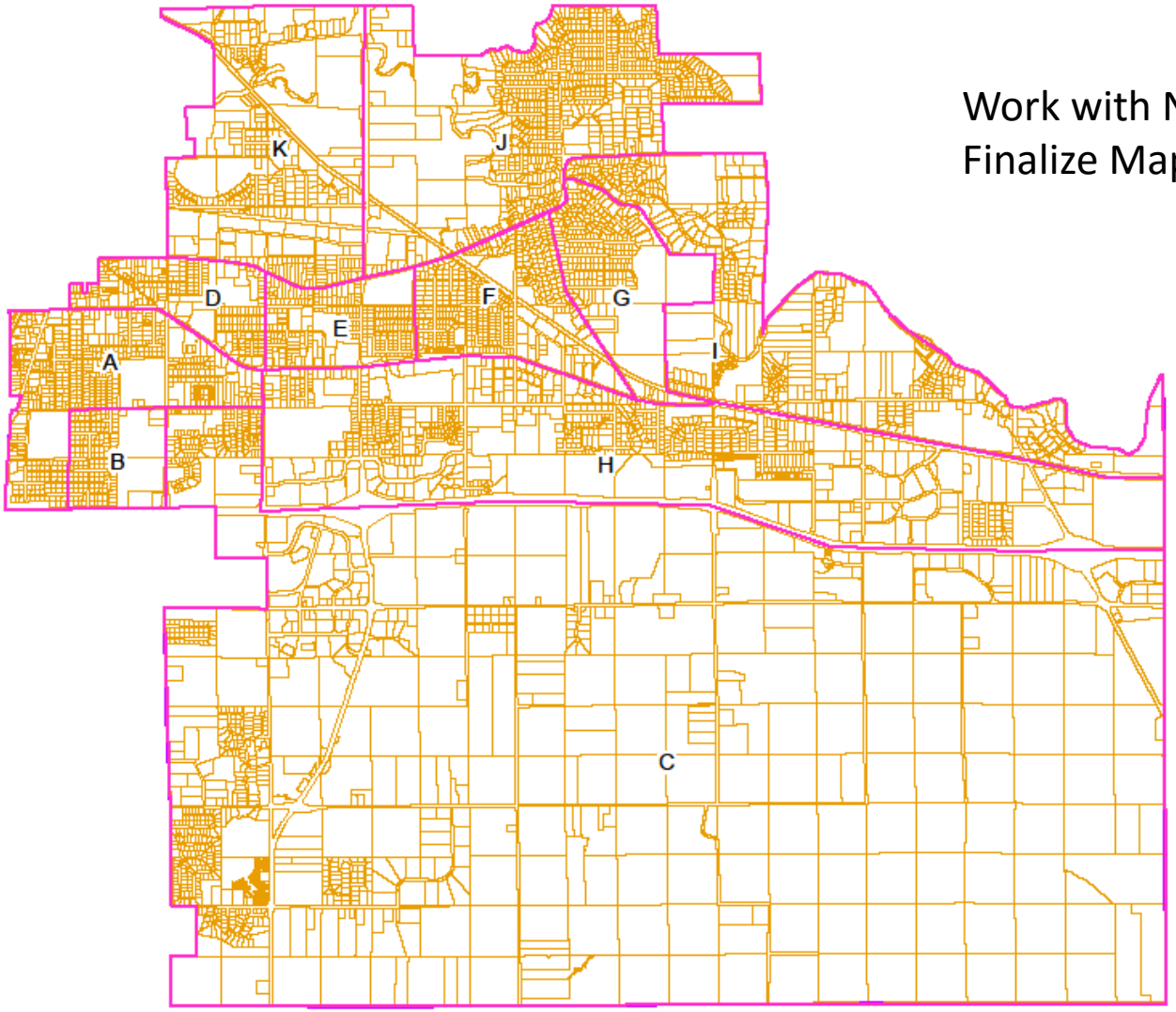
- Spring Yard Materials
  - Pickup typically starts the 1st week in May and is completed by Mid-May
  - Village staff makes one (1) pass through the Village
- Fall Yard Materials
  - Pickup typically starts the 2nd week of October and finishes the 2nd week of November
  - Village staff makes two (2) passes through the Village

When Is Pickup Scheduled?

- Once the dates of pickup are scheduled, pickup occurs by neighborhood, which take approximately one day for pickup. These neighborhoods are broken down as:

Pickup Areas	Boundaries
A	Area between Schofield Ave and Jelinek Ave from west Village Boundary to Birch Street. Also, Area between Volkman St and Normandy between STH 29 and Jelinek.
B	Area between Normandy St, Jelinek, Alderson and STH 29
C	Area between Alderson, Jelinek, Birch and STH 29. All properties South of STH 29.
D	Area between Schofield Ave and Ross Ave from west Village Boundary to Birch St.
E	Area between Schofield Ave and Ross Ave from Birch to S Timber St.
F	Area between Schofield Ave and Ross Ave from S Timber St. to Fuller St.
G	Area between Schofield Ave and Ross Ave from Fuller to Eau Claire River.
H	Area between Schofield Ave and STH 29 from Birch St to CTH J
I	Area between Schofield Ave and Ross Ave east of the Eau Claire River
J	Area North of Ross Ave and East of CTH X/Camp Phillips Rd
K	Area North of Ross Ave and West of CTH X/Camp Phillips Rd

Map of Pickup Areas



Work with Nate to Finalize Map

What Material is Picked Up?

- Spring:
  - Grass and Thatch (not bagged)
  - Brush (less than 6” in diameter)

- Fall:
  - Leaves (not bagged)
  - Brush (less than 6” in diameter)

How Should Material Be Placed?

- All material should be placed at the side of the road no more than one week prior to pickup.
- All material shall be at least 5 feet away from power poles, mailboxes, etc.
- Grass, Leaves and Pine Needles:
  - Un-bagged
  - Rows not more than 5 feet in width in order for the machine to reach all material
- Brush:
  - Place parallel to roadway.
  - Brush shall be less than 6 inches in diameter

How is Material Picked Up?

- Grass and thatch: Picked up by Vacuum Unit
  - Plants and root balls should not be placed with yard clippings/rakings.

- Brush: Picked up by Front End Loader and loaded into dump trucks

When Should Material Be Placed at the Roadside?

- Material shall be placed no sooner than one week prior to pickup because:
  - Material placed sooner than one week is more likely to be washed into a nearby storm sewer or culvert causing drainage issues.
  - Material in the roadway creates a roadway hazard when placed in the street. This reduces the effective width of the road for vehicles, bicyclists and pedestrians.
  - If material is placed too soon, the grass underneath the material will start to decompose. This can cause mold to form creating a public health issue (not to mention your grass will likely die underneath the pile).
- As Such:
  - Material placed sooner than one week will be considered illegally dumped and property owners will need to remove material immediately.

What if Equipment Breaks Down?

- At various times, the Village's vacuum truck has broken down. When this happens the Village will use an end loader to continue picking up leaves and grass in order to stay on schedule. The goal is to get the majority of the pile picked up.

- Once the vacuum unit is back up and running, it will follow behind the end loader and pick up any material that is left.

End Loader picking up leaves

Vacuum Truck cleaning up after End Loader

Yard Waste Facility

8200 Ryan St.

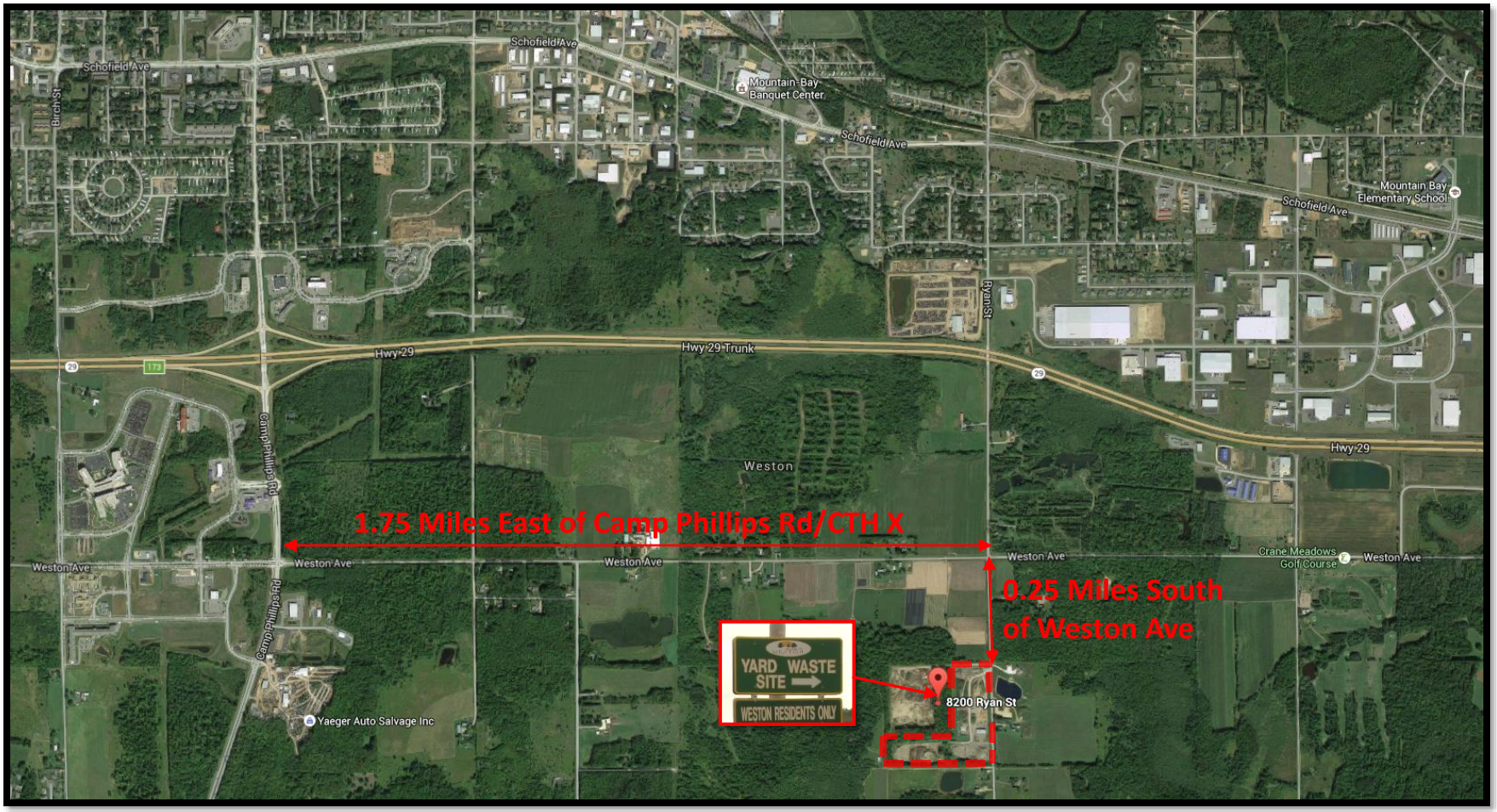
Where can I take Material outside of the curbside pickup times?

- Village residents can take yard waste and brush to the Village of Weston Yard Waste site Spring thru Fall, 7 days a week.

- Yard Waste Site is located at:
  - **8200 Ryan St. (1/4 Mile South of Weston Ave)**

- Material must be placed in appropriate bins as labeled
  - Grass and Leaves shall be removed from bags, and bags shall be placed in the dumpster provided.

Where is the Yard Waste Site?



Contact Us

The Department of Public Works wishes to provide the highest quality of service possible with the resources that are available. Although we are constantly evaluating our performance, we welcome your input as to the process and our effectiveness from the point of view of you, our customers/taxpayers.

We welcome your input. However, as stated at the outset, we will not/cannot respond to anonymous contacts. Please contact us at (715) 359-6114 or via the Village Website at http://westonwi.gov

Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – F.14.

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Village of Weston, Wisconsin
Report for the month of March 2016
MONTHLY DEPARTMENT REPORT FROM DEPUTY DIRECTOR OF PUBLIC WORKS

Monthly Department Briefer #2016-03
Michael Wodalski, Deputy Director of Public Works
Monday, April 4, 2016

1. FOR YOUR IMMEDIATE ATTENTION -- TRUSTEES.

- Nothing at this time.

2. STRATEGIC PLAN PROJECT STATUS.

- Strategies for Reduced Energy Consumption.
    - **LED Light Fixtures:** Project was awarded to Werner Electric in March for the American Electric Autobahn fixtures. The fixtures are in the process of being ordered and installation should take place in mid to late May once they are delivered.
    - **Mobile Access/Maintenance Management Software:** Working with N Crowe to get all operations staff members access to our asset management software. This will allow staff to have mapping and maintenance history at their fingertips. We'll also be able to better track work that is completed as well as schedule work that is planned.
- Water Rate Case
    - Continue working with J Jacobs and K Donner to get them the information they need to keep this project on schedule.
- Workload and Labor Needs Analysis in Services Division
    - Working with the operations team on projections for operation and maintenance workload for the 2016 construction season. By looking at all of our services divisions as a whole instead of individual groups we should be able to discover opportunities to gain capacity in our tasks and better utilize staff. J Borth, D Behnke, T Skrzypchak, S Osterbrink, K Donner and myself have been getting together once a week to schedule and collaborate on upcoming work. This will be an ongoing task and should provide us better opportunities to utilize our resources.
- Infrastructure Master Plans
    - Draft Capital Improvement Plan is completed, working with K Donner on prioritizing and working through the projects.
    - Street Maintenance Plan for 2016: bid packets are planned to go out on Friday the 8th.
    - Staff has begun working on the grant application for the connection of the Volkman St. multi-use path to connect the DC Everest Junior High to the planned path on Volkman that the Village of Rothschild is working on.
- Vehicle and Equipment Fleet Replacement
    - There is a request to purchase a new sewer camera in the board packet this meeting.
    - Staff has begun researching in order to write the specification for the replacement plow truck for 2017.
    - Staff will begin working on the replacement fleet vehicle for staff use this coming month.

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- Policy and Ordinance Development/Revisions
    - Submitted first draft of Brush and Yard Material Pickup Policy to D Guild. Will be working on fine tuning that document.
- Wage & Compensation Plan Advancement Guidelines – see item 5.

- Technology Integration
    - As mentioned above with the mobile technology, staff will soon have all mapping and asset information readily available.
- Implement/Improve Outreach/Public Education
    - National Public Works Week is May 15-21 and staff would like to put together an event with the public to celebrate public works. We will be working with R Hodell in the near future to look into this opportunity.

3. BUDGET AND FINANCIAL PLAN STATUS.

- CIP is being updated.

4. EMPLOYEE DEVELOPMENT & ENGAGEMENT.

- All members of the public works staff, less the foremen, attended an Asphalt Pavement Class this past week through the UW-Transportation Information Center.
- In addition to those, K Donner, myself and the Foreman continue to attend Public Works Supervisory Academy classes through the UW Continuing Education Program.

5. PERFORMANCE AND METRICS.

- Continue to work with K Donner and the Operations Foreman on the Wage and Compensation Matrix. Once completed staff should have a clear picture of what needs to be accomplished in order to move through the steps and grades of the various positions.

6. COMMUNITY FEEDBACK

- Received an email again from a resident on E Jelienk regarding the traffic calming issues we discussed at PIC last fall. This is an item that should be researched and finalized through April.
- Received some feedback that the condition of the road on Jones St is very poor. After the wet weather we've had, the road is experiencing some significant heaving.
- Similar to Jones, Buska St north of Shorey Ave, has several frost boils that have surfaced and caused the road to fail.
- There was also a street failure on Christiansen Ave

7. IDENTIFIED NEEDS.

- None at this time

8. NEW IDEAS & OPPORTUNITIES.

- None at this time.

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9. MISCELLANEOUS COMMENTS / ISSUES.

- None at this time.

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Village of Weston, Wisconsin
REGULAR MEETING OF THE PROPERTY & INFRASTRUCTURE COMMITTEE

April 4th, 2016

MEETING PACKET COVER SHEET AGENDA ITEM – F.15.

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Village of Weston, Wisconsin
Report for the month of March 2016
MONTHLY DEPARTMENT REPORT FROM DIRECTOR OF PUBLIC WORKS & UTILITIES

Monthly Department Briefer #2016-03
Keith Donner, Director of Public Works & Utilities
Monday, April 4th, 2016

1. FOR YOUR IMMEDIATE ATTENTION -- TRUSTEES.

- At our 3/07 meeting we discussed a sewer back-up that occurred on Saturday, 2/27 on Highland Avenue east of Normandy. The utility staff responded to a report of a sewer back-up and the sewer was found to have a plug caused by "disposable" wipes. There were two homeowners affected (Folz and Dickerson). Dickerson reported significant damage to basement drywall, furniture and floor coverings. The insurance adjuster working on the case contacted both Clerk Weinkauf and I about some of the discussion and advised that any further contacts from the 2 parties should be directed back to the adjuster. The adjuster is, as expected, advising that the claims be disallowed and we will have those on the BOT agenda on 4/18. Mr. Dickerson is aware that some communities purchase no-fault sewer back-up coverage though we have chosen not to do so historically. In preparation for any follow-up we are following up with our insurance agent to obtain a quote on the no-fault sewer back-up insurance. Perhaps we will want to consider adding it for 2017. We should certainly update information about sewer back-ups on our web site with tips on how people can best be prepared for such incidents through their own insurance policies and sewer lateral check valves.

2. STRATEGIC PLAN PROJECT STATUS.

- J. Higgins, M. Wodalski, S. Osterbrink, and K. Donner are meeting every other Monday to coordinate areas where Public Works & Utilities, Parks, Planning & Development need to collaborate under the umbrella of Services Division. Coordinating efforts on strategic plans of the 3 functional areas is something we have not yet been able to address. An agenda is being prepared for the meetings.
- Comprehensive Plan Update
  - Reviewed Subdivision Ordinance
  - Participating in regular meetings with team from JSD Professional Services and J. Higgins, et. al. of Village re: SE Quadrant of STH 29/CTH X.
    - Spent considerable time reviewing data on household and employment projections for Village as a whole and for SE Quadrant for input to WisDOT trip generation model, including special meeting with WisDOT and Wausau MPO staff on 3/09. WisDOT model results will be used to compare with JSD projections for SE Quadrant. WisDOT model results are expected to be available approximately April 6.
    - Working with J. Higgins and D. Guild on strategy for controlling access to Weston Avenue east of CTH X. Completed resolutions adopted by BOT on 3/21 to Designate Weston Avenue as an Arterial Street and to Control Access on Weston Avenue. Will be following up with contacts of property owners affected by these resolutions and the Weston official map. Initial focus is on completing connection from Transport Way to Weston Avenue. J. Higgins and I met with Travis Hoerman, Owner of Lot 6 on Transport Way, on 3/30 to discuss process of survey, R.O.W. plat, appraisal, etc.

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- Intergovernmental agreements.
  - Partnering with Rothschild on a stewardship grant for a multi-use path on Volkman Street from STH 29 north.
  - Received confirmation from Rothschild that they plan to proceed with their water main extension to the Foremost entrance this year. Becher-Hoppe indicates the redundant valve we requested as a condition of the easement to Rothschild (approved by BOT in 2015) has been added to plans.
  - Sharing utility mapping information with Rothschild in follow up to previous requests subject to their signing a non-disclosure agreement.
- Strategies for Reduced Energy Consumption.
  - M. Wodalski obtained proposals for LED street lights and an award has been made.
- Water Rate Case
  - Met with J. Jacobs and D. Van Swol to review financial information needed (2015 expenses and 2015/2016 capital assets) on 3/30. Staff derailed a bit from finalized submittals for Capital additions and 2015 expenses as Finance Department was re-setting.
- Workload and Labor Needs Analysis in Services Division
  - Services Division Management and Supervisory team continues to work on projections for operation and maintenance workload for the 2016 construction season. Initial focus is on a surge for "Park" needs in mid to late April.
- Infrastructure Master Plans
  - Bids for Ross Avenue and Mesker-Colleen lift station replacements were opened on 2/23. Bids are currently under evaluation. A recommendation of award will not be made to BOT until 4/18. Details of easement from Old Castle were finalized with M. Yde and Old Castle
  - R. Roth preparing proposal for water supply master plan study relative to need for well #7.
  - J. Wallenkamp and J. Schoenborn of Kueny Architects were on site on 3/17 and 3/24 to meet with staff and make observations of operations as part of the municipal facilities assessment. The visit on 3/24 also included meetings with representatives of EMPD.
  - CIP for infrastructure is in process.
- Policy and Ordinance Development/Revisions
  - Sewer Utility Ordinance update has been discussed with R. Roth.
  - Assembling information for preparation of RFP for condition assessment of sanitary sewers
- Wage & Compensation Plan Advancement Guidelines – see item 5.
- Technology Integration
  - K. Donner completing RFP for Automated Meter Reading and Advanced Metering Infrastructure (AMR/AMI). Updated estimate for full implementation with meter replacements is approx. $1.7 M. Costs included in projected utility expenses for rate case analysis.
- Safety Manual Update and Training
  - Fehr Graham completed written updates for 2nd phase of required manual content. Training date was deferred into 2016 until after new employees were on board. With Park Maintainer to start after May 1, dates in May will be targeted before summer PTO begins to interfere.
- Water and Sewer Main Extension Policy
  - Reviewed policies from other communities, but not substantial differences in principles that customer/developer pays for costs of extensions and financial burden to existing customers for extensions is minimized. Plan to discuss proposed changes to our main extension policy with the PIC committee on April 4.

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3. BUDGET AND FINANCIAL PLAN STATUS.

- Water rate case and CIP are being prepared by Ehlers. See #2 above.
- Water utility report for Public Service Commission is due for submittal by April 1.

4. EMPLOYEE DEVELOPMENT & ENGAGEMENT.

- Participated in telephone system training on 3/08.
- Coordinated training session for utility staff on time entry using ADP system. Training was done on 3/09.
- Emphasizing need to collaborate on maintenance needs affecting park and R.O.W. aesthetics in weekly scheduling meetings with Operations Foremen (Behnke, Skrzypchak, Borth), S. Osterbrink and M. Wodalski. Work that can be assimilated by other specialized areas is being assigned, such as plumbing related issues to utilities, and banner/light pole issues to street staff.
- Chad Dietsche and Dave Krause attended Wisconsin Rural Water Association annual meeting in Green Bay from 3/30 – 4/01.
- Attended Regulations update by representative of U.S. Chamber of Commerce on 3/10 at MiTech.
- Attended Village 20th anniversary of incorporation on 3/11.

5. PERFORMANCE AND METRICS.

- Meeting weekly with Administrator to discuss priorities. Discussed concerns about recruitment and hiring recommendation for Park/Public Works.
- Working with Deputy Director Wodalski and staff on Wage and Compensation Plan training and competency matrix with goal of establishing advancement guidelines for Services Division Employees.
- Attended Lumin Leadership training on 3/1 with Department Directors.

6. COMMUNITY FEEDBACK

- Received call from Ron Serwa of Vortex Tool re: nuisances from Mitch King operation south of his property. Not a new issue, but reported to be worsening over time. Forwarded information to Planning and Development to prepare for responding to a request to determine zoning compliance.

7. IDENTIFIED NEEDS.

- Heavy rain on 3/15 resulted in high water on Eau Claire River and in headwaters area of Bull Junior Creek. Water overtopped Shorey Avenue during the night time hours of 3/15 & 3/16. County emergency services requested sand be delivered into Mallard Court area and they also delivered sandbags. About 2 years ago we met with Wally Sparks and Steve Meilahn about flood response protocol and felt there was adequate understanding of protocol. There is now a new Emergency Services Director at Marathon County. We should update emergency response plans as noted in our strategic plan.

8. NEW IDEAS & OPPORTUNITIES.

- Nothing at this time.

9. MISCELLANOUS COMMENTS / ISSUES.

- As of Thursday, 3/24 there were 2 applicants expressing interest in the open PIC committee position vacated by Neal Adams.

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March, 2016

You are FLUORIDATING your community water!

The Wisconsin Dental Hygienists' Association (WI-DHA) wishes to ***THANK YOU*** for providing fluoridated water to the citizens of your community. We know that as a result of your efforts, the residents of your town will experience 25% fewer caviities in their teeth over their lifetime. Fewer cavities means less expense, less pain and more people keeping their teeth for a lifetime. Overall, this results in an improved quality of life for the people you serve. We commend you and think that is AWESOME!

It is the mission of the entire dental hygiene profession to focus on disease prevention and health promotion and to support those who assist us in achieving those goals. We view you as important partners and appreciate your contributions to oral health!

Well done!

Please share this commendation with others in your community and the water department or city council. We are enclosing a window sticker – we hope you will display it in your habitat as a reminder that TEETH LOVE FLUORIDATED WATER!

Water fluoridation is considered by the CDC to one of the top ten public health achievements of the 20th century. WI-DHA agrees and we hope you will continue.

The best, most up-to-date and credible information about water fluoridation can be found on the following websites:

http://ilikemyteeth.org/

http://tapintohealthyteeth.org/water-operators/

http://www.ada.org/~/media/ADA/Member%20Center/FIles/fluoridation_facts.ashx

We also invite you to contact us for help answering any questions or concerns you or your citizens may have about water fluoridation.

Linda M. Jorgenson RDH BS

Linda Jorgenson, RDH, BS, RF
WI-DHA Past President
Advocacy Chair

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TEETH

LOVE

FLUORIDATED WATER

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This report indicated Wisconsin is #18.

1/52 SLIDES © Pixabay

STATES WITH THE MOST FLUORIDATED WATER

Since its inception in the 1940s, community water fluoridation has been lauded by public health agencies as one of the top public health achievements of the 20th century. Water fluoridation, the controlled addition of fluoride to public water supplies, is done to reduce tooth decay in children ar adults. According to the Centers for Disease Control and Prevention, children living in communities with fluoridated water have about 2.25 fewer decayed teeth than those without it.

Despite adoption in many communities, water fluoridation is a contentious issue for some. One fear is that fluoride build-up in the bones can occur. However, this is only a threat after long-term exposure to fluoridation levels higher than 4.0 mg/L.

This is well beyond the fluoride level of 0.7mg/L recommended by the United States Public Health Service.

Other opponents argue that water fluoridation is a form of compulsory mass medication and that it denies consumers choice. While these arguments are valid, scientific studies underscore numerous benefits, leading policy makers to believe the pros outweigh the cons.

Because not all Americans have access to dental care, many view water fluoridation as a free preventative health measure, like enriched flour or fortified milk. Especially in low-income communities where there may not be many dentists or where people can't afford to visit one, water fluoridation reduces the risk of serious oral health problems.

While much of the country fluoridates its water supply (nearly 75 percent of people on community water systems receive fluoridated water, according to the Centers for Disease Control and

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Prevention), some states fluoridate more of their water than others. Using data from the CDC, the experts at HealthGrove discovered which states fluoridate the most.

For this list, HealthGrove ranked the states, including the District of Columbia, by percent of people on community water systems that have fluoridated water. Additionally, density of dentists per 100,000 people (as of 2013) and the percent of people who visit a dentist or dental clinic within the past year (as of 2014) are included for context.

Note: In the case of ties, the higher ranking goes to the state with the largest number of people served by community water systems.