

VILLAGE OF GRAFTON
BOARD OF PUBLIC WORKS MEETING MINUTES

OCTOBER 12, 2015

The Board of Public Works meeting was called to order at 6:00 p.m. by Chair Sue Meinecke.

Board members present: Trustee Sue Meinecke, Trustee Tom Krueger, Trustee Dave Liss, Pat Murray, and Les Blum.

Staff present: Director of Public Works/Village Engineer Dave Murphy, Superintendent of Public Works Gary Helm, Utility Superintendent Tim Nennig, and Administrative Assistant Melissa Depies.

HEAR PERSONS REQUESTING TO BE HEARD

None

MINUTES

Motion by Trustee Liss, seconded by Trustee Krueger, to approve the September 14, 2015, Board of Public Works meeting minutes. Motion carried.

Mr. Blum stated that on page 3, paragraph 1, line 3; the word "once" needs to be changed to "one" or the word "time" needs to be removed.

WATER & WASTEWATER

USDA NRCS Regional Conservation Partnership Program

Director of Public Works/Village Engineer Dave Murphy stated that in the future the Utility will be required to reduce the amount of phosphorous discharged from the wastewater plant, which could be very costly.

MMSD, as lead project coordinator, is applying for a grant to install water quality measures off-site that would remove phosphorous before it gets to the utility. This removal would then count toward the phosphorous removal requirements, possibly eliminating the need for plant upgrades or improvements.

Mr. Murphy explained that an off-site project could consist of going onto a farm field and installing a filter bed designed to pull out Total Suspended Solids (TSS) and phosphorous.

MMSD and the DNR are currently completing a study of the Milwaukee River Watershed area. Upon completion of the study, they will inform the Village of the phosphorous level allowed. Plant improvements or off-site projects will be determined once the allowable levels of phosphorous are determined.

Trustee Krueger questioned if these levels were going to be based on assumptions or real information. Mr. Murphy responded that he was unsure how they were making that determination.

Mr. Murphy commented that if an off-site project included a filter bed project on a local farm, he was not in favor of paying rent for the land, he would prefer to purchase the land and take the farmer out of the equation completely.

Mr. Murphy noted that the City of Cedarburg has chosen to pass on the opportunity to team up with MMSD and the DNR for possible off-site improvements.

A credit for phosphorous removal can come from any removal project upstream from the facility. For Grafton that would include improvements for the Milwaukee River.

Mr. Krueger questioned who will be responsible for the maintenance of these strips of land that make up the filter beds. Mr. Murphy indicated that it still needed to be determined; however, he believed it would most likely be Ozaukee/Washington Land Trust.

Mr. Blum questioned how the grant money would be distributed between communities. Mr. Murphy again stated that this has not been determined.

Trustee Meinecke stated that it appears that MMSD and the DNR are at the preliminary phase of this effort and that many issues still needed to be determined.

Mr. Murphy stated that he is recommending that the Village include a letter of support with the grant application. The letter does not commit the Village to any level of funding at this time. The letter clearly states that the Village of Grafton will not contribute any funds until the DNR and the Village Board have agreed to the credit for the WPDES permit and the payment for such credits.

Motion by Mr. Murray, seconded by Trustee Krueger, to recommend the Village Board authorize the Village Engineer to send the USDA NRCS Regional Conservation Partnership Program grant support letter as presented. Motion carried.

3rd Quarter Water System Compliance Sampling

Utility Superintendent Tim Nennig highlighted the 3rd Quarter SDWA compliance results. Mr. Nennig reviewed with the Board where there were raw water exceedances and elevated detections of tetrachloroethene, trichloroethene, and dichloroethene.

Entry water testing at Well 4 indicated that the stripping tower once again had no breakthrough of trichloroethene or tetrachloroethene.

Well 6 concentrations of trichloroethene remain below the MCL; however, there has been no indication of contaminant level improvement. Well 6 also showed concentrations of tetrachloroethene and 1,1 dichloroethene in the last two sampling events that had not been present the previous five rounds of sampling.

Trustee Krueger stated that Well 5 entry water usually has minimum detection which is well below the MCL; which seems to be pretty consistent. He questioned if there has ever been a sampling that was completely clean. Mr. Nennig responded that he did not recall any sampling event. Mr. Nennig indicated his disappointment in last fall's air stripper media acid-washing, he was hoping to see no contaminant breakthrough upon completion of the project work.

Mr. Nennig highlighted the TTHM and HAA5 analyses stating that the disinfection by-product concentrations are well below the maximum contamination level established by the USEPA.

Utility Projects Updates

Water System Master Plan Update: The draft master plan findings and recommendations is complete and currently being reviewed by Village staff. Formal presentation to the Board will be scheduled upon written plan completion. Trustee Krueger questioned if the plan will include a strategy for projects and improvements. Mr. Nennig responded that the plan will include a strategy; however he has not seen any recommendations to date.

WWTP Compact Plant #2 Re-coating: Project is complete; however, Utility staff must still complete the replacement of 880 fine bubble rubber membranes scattered across the bottom of the structure. Mr. Nennig explained that the materials for this project were provided by an equipment vendor at no cost (estimated \$24,000 savings to retrofit both compact plants). These materials were in exchange for allowing Aquarius Technologies Inc. of Port Washington, WI, to use Grafton's WWTP for an equipment pilot study using final effluent.

Collection System CMOM Program: Stand Associates is approximately 3/4 done with the draft CMOM program for the Village.

River Bend Lift Station, Infrastructure and Road Re-construction: Project review by Plan Commission and Architectural Review Board is pending. The project includes design work for a gravity sewer extension east of the proposed lift station site. Mr. Murphy noted that the lift station was setback the same distance as the homes in the area; however, because the lift station will be constructed in a park the setback requirement is 50 feet versus the 35 foot setback of the homes. The cost to move the lift station back the additional 15 feet is quite significant as additional fill will be needed as well as construction of a two tiered retaining wall.

WWTP Digester Cleaning and Inspection: Project is complete. All stored sludge was able to be directly land applied onto a local farm field just outside the Village limits, resulting in fairly significant savings to the Village.

Report of benchmark measurements – Utility

The benchmark report was reviewed.

Utility Superintendent Tim Nennig stated that Utility staff is progressing nicely on all benchmarks. Hydrant flushing is officially complete, with all 760 hydrants receiving routine maintenance and flushing. A total of 85 hydrants will be sand-blasted, primed and repainted. The hydrants being recoated are located on Washington Street, Wisconsin Avenue, Badger Circle, and Cheyenne Avenue.

Mr. Nennig stated that despite being at 86 percent of the benchmark goal, the number of meters tested is down rather significantly compared to 2014. The annual benchmark goal will need to be increased in subsequent years in order to maintain the necessary testing intervals per the PSC requirements.

Mr. Nennig noted that the annual benchmark goal for sewer mainline jetting/cleaning has been exceeded. Approximately 60,000 lineal feet of sewer mainline has been jetted this year, this is almost 25 percent of the total collection system.

There have been zero sewer mainline back-ups.

PUBLIC WORKS

Change Order 2 – Falls Road Improvements

Director of Public Works/Village Engineer Dave Murphy explained that additional work was necessary during construction of Falls Road. During the proof roll, soft spots were found requiring additional excavation and additional stone to be brought in.

The storm sewer at the west end of the project was changed due to utilities being in the way of the pipe. The pipe was not installed and the storm sewer was moved resulting in added discharge points and the need for rip rap which was not in the original contract.

The Town of Grafton requested that an abandoned culvert be removed and replaced with granular material. The Town also requested that the ditch near Falls Crossing Subdivision be repaired because the developer had left the ditch in very poor condition and it was difficult to maintain.

There were additional costs associated with placing the geo-grid. It was necessary for the contractor to remove the pulverized asphalt, put in the geo-grid, and then replace the pulverized asphalt. Less geo-grid was needed; therefore, there was a \$2,014.97 savings from Change Order 1.

Mr. Murphy indicated that he has sent a letter to the Town of Grafton requesting a cost share on these items; however, he has yet to hear back from them.

Mr. Blum questioned if the grid could have been placed on top of the asphalt with the same results. Mr. Murphy responded that, Kevin Kimmes indicated that it would not work to place the grid on top as the grid supports the base for the road, it was also noted that the grid was a plastic type of material and could melt if placed on top.

Motion by Trustee Krueger, seconded by Mr. Murray, to recommend the Village Board approve Change Order 2 for the Falls Road Improvement project in the amount of \$19,442.34. Motion carried.

GPS Calibration

Director of Public Works/Village Engineer Dave Murphy explained that the Village owns a handheld GPS device that was purchased to enable staff to accurately find and mark underground facilities for Diggers Hotline. Unfortunately, when the system maps were uploaded to the device, the locations shown were not to the accuracy required; which now requires that the maps be calibrated to the same system as the device. Ruckert and Mielke will need to survey the section corners within the Village and adjust the maps accordingly.

Motion by Mr. Blum, seconded by Trustee Liss, to recommend the Village Board approve the proposal from Ruckert and Mielke, Waukesha, WI, to calibrate the Trimble with the system maps for a total sum not to exceed \$3,100. Motion carried.

Pavement ratings - 2015

Director of Public Works/Village Engineer Dave Murphy stated that the Village is required to rate all roads every other year in order to receive the annual State Highway Funding.

Mr. Murphy explained the different ratings indicating that the Village considers a road rated 4 or better as being fair.

Many of the roads that previously were rated an 8 or better have deteriorated to lower ratings which resulted in the road rating decreasing from a 6.80 to 6.01.

DPW crews do an excellent job on crack filling; however, due to the fact that the Capital Improvement Plan funds only 2 percent of our roads for resurfacing each year, the decrease in the average rating will continue.

Report of benchmark measurements – Public Works

The benchmark report was reviewed.

Superintendent of Public Works Gary Helm stated that crews are currently patching First Avenue north of WIS 60, and other spot patches as may be necessary.

Mr. Helm noted that over 100 trees have been marked for removal due to the Emerald Ash Borer. There are approximately 40 trees marked for removal on the Village property across from the treatment plant (the wooded area by the pond). Removal of these trees will definitely give this area an entirely different look and feel. The Cities of Port Washington and Cedarburg and the Village of Grafton continue to share the stumper on a weekly basis to try to keep up with the tree removals.

Mr. Helm stated he is scheduling the patching of the concrete on WIS 60 with a mastic or poly filler. This is the same material and procedure done in 2014 on WIS 60 near BMO Harris Bank. This procedure stops the spreading of cracks and shifts in the concrete and extends the life of the road. It will cost approximately \$5,000 for the material and rental of the necessary equipment.

Mr. Blum questioned who was responsible for maintaining the WIS 60 Bridge as the pillars are in need of repair. Mr. Helm stated that the Village is responsible for these repairs and the deterioration is due to the salt and road spray hitting the pillars in the winter.

Trustee Krueger questioned when the railing on Wisconsin Avenue near Ozaukee Ace Hardware would be repainted. Mr. Murphy stated that the cost estimate to repaint this railing was \$35,000 and has been included in the 2016 budget requests.

OLD BUSINESS

None

NEW BUSINESS

None

ADJOURN

Motion by Mr. Blum, seconded by Mr. Murray, to adjourn the meeting at 7:09 p.m. Motion carried.