

**MINUTES OF THE REGULAR MEETING
OF THE BOARD OF TRUSTEES
OF FOX METRO WATER RECLAMATION DISTRICT
HELD WEDNESDAY JUNE 17, 2020**

The Board of Trustees met in a regular monthly meeting at 9:30 A.M. in the offices of the District at the Water Pollution Control Plant on Wednesday, June 17, 2020. Present were, Trustee Judith S. Sotir, Trustee Michael Funkey (via phone), Trustee Christopher F. Childress (via phone), Trustee David Krahn (via phone) and Trustee Randall H. Brown (via phone). Also present were Attorney Gregg Ingemunson (via phone), Manager Thomas F. Muth, District Engineer, John Frerich from Deuchler Engineering (via phone), Assistant District Manager, Jimmie Delgado, Assistant District Manager Karen Clementi and Norma Rodriguez.

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The bills were presented and read. It was moved by Trustee Funkey that the bills be allowed as read, ratify and approve the checks drawn during the month of May, 2020 in the amount of \$1,858,880.29, Motion was seconded by Trustee Childress, put to vote and unanimously carried that the bills be paid as presented.

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It was moved by Trustee Funkey seconded by Trustee Childress, put to vote and unanimously carried that the Treasurer's Report for May, 2020 be approved as submitted.

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It was moved by Trustee Funkey, seconded by Trustee Childress, put to vote, and the Motion was unanimously carried that the minutes of the May 20, 2020 Board Meeting be approved as written. Each of the Trustees having received and read copies of said minutes before the meeting.

At this time, Trustee Sotir asked for the Board and everyone present to observe a minute of silence in honor of former Board Member Al Heriaud who passed away this month.

In Public Comments, Trustee Sotir congratulated all of the Fox Metro Employees that celebrated Birthdays in the month of June. The Board also congratulated Kevin Boedewig for obtaining his Associates Degree in Construction Management from Waubensee Community College. The Board also congratulated Kevin Kwosek for completing the 8 hour NFPA70E training for Electrician.

With no Public Comments, it was moved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that the Regular Board Meeting be temporarily adjourned for the Committee of Local Improvements.

The Regular Board Meeting temporarily adjourned at 9:44 A.M.


In the Committee of Local Improvements Manager Muth addressed the Board and gave a presentation regarding the SCADA Modernization Plan. He began his presentation by explaining that SCADA operates the South facility solely. At the North facility the SCADA system is in good working order but it is in need of an upgrade and modernization and there are funds appropriated for this project in this year's budget.

Manager Muth explained to the Board that SCADA is the Supervisor Control and Data Acquisition System. It is the software and hardware that controls the wastewater treatment process totally at the South facility and partly at the North facility. SCADA collects and analyzes data and it provides staff with a baseline and gives the capability of giving trends of the wastewater treatment processes. This system is remote controlled and gives access to all of the plant's processes. It is used at all of the pumping stations and at the wastewater treatment plant.

Manager Muth gave a SCADA timeline and background. He stated that in 2006 Deuchler and IDCS, a SCADA expert, created a conceptual plan with the District. In 2007 the plant began implementation of the SCADA system at the North facility. Rockwell Automation is the manufacturer of the equipment and Revere Engineering is the vendor.

Last Fall the Board authorized the fiber optic line installation project and the contractor, Archon, is currently excavating, installing conduit and are very close to completing this project.

Manager Muth explained that the importance of SCADA is that it helps run the plant in order to comply with USEPA/IEPA permits. It also helps Operations monitor effectively. It provides the base lines of all the process units and it gives staff the ability to look at trends. The SCADA systems also gives alarm statuses and notification and it also recalls archived data files at any time. The system also views the gains in Maintenance productivity. Another advantage of SCADA is that staff can monitor, collaborate and respond to any issues at the Plant remotely.



Manager Muth said some of the issues that exist with the current system is that Technology is much improved today and there has been an increase of malfunctions and errors. The current system is at the end of equipment life cycle which is 10 to 15 years. He said this is proprietary equipment and it needs to be replaced with equipment from the same manufacturer (Rockwell) to retain compatibility with existing equipment and avoid blending disparate systems. Staff is partnering with experts to provide capacity for future expansion.

Manager Muth explained the SCADA modernization plan phased approach. He said staff will develop a team of experts to create the modernization plan. The current SCADA system has been analyzed and the in-ground Fiber Optic Ductbank Improvements project is almost complete. Staff is ready to begin the next tasks and the proposal is to complete this project within 18 months. The team in this project consists of A&E Supervisor, Mike Petersen with his A&E team, Deuchler experts, Revere Electric Supply Company and Wunderlich-Malec. This company is an expert in the field that the District hired approximately one year ago to assist the plant have a smooth transition with the South facility and they have also helped in the North Facility in getting the new processes on line.

Manager Muth advised the Board the District would like to purchase Distribution Rack Panels. Star configuration will be utilized because it is engineered to correct single point failures by installing compatible intelligent switches and devices. This will reduce the traffic on the Network. A slide was shown illustrating what a Distribution Rack Panel looks like along with another slide illustrating where the Mainframe will be placed and the systems it will control. Manager Muth explained in detail the Data Control System and the way it will function at the plant.

The benefits of this system to the District is that it is compatible with the active products in the existing SCADA architecture. It has the capacity to meet future growth and the equipment pricing that will be utilized is validated at market price. The system will provide a redundant architecture, real-time monitoring with yearly device health checks and analysis every 5 years for long term Planning (2025). This system has a designed life cycle of 10-15 years (2030-2035).

Manager Muth stated that staff would like to purchase 6 Distribution Rack Panels this month at a cost of \$363,599.00. In July purchase the Intelligent Device Hardware at a cost of \$186,511.00 and in February purchase the Industrial Data Center and have it installed at the new O&M Building at a cost of \$200,000.00. In December, staff will be working with Deuchlers

to plans out to bid to place the fiber cable in the installed conduit to be constructed between April and October, 2021.

At 10:10 A.M. Manager Muth opened and read aloud bids received for the Oswego Pump Station Electrical Upgrades Project as follows: JB Contracting Corporation– Total Bid \$154,937.00; Frank Marshall Electric – Total Bid \$158,700.00; Powerlink Electric – Total Bid \$199,645.00; Valley Electrical Contractors – Total Bid \$138,800.00; The Engineer’s estimate for this project is \$210,000.00. After Discussion and based on recommendation of staff, it was moved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that the bid from Valley Electrical Contractors, for \$138,800.00 be accepted and the bid from JB Contracting for \$154,937.00, be held pending specification review and approval by Fox Metro Reclamation and Deuchler staff.

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The Committee of Local Improvements reconvened and Trustee Sotir said the SCADA system is the heartbeat of the Plant and it needs to be up to date and functioning properly. Manager Muth advised the Board this project is budgeted for and discussion ensued. Trustee Childress asked what cost savings this system would have on the District. Manager Muth said that system allows the plant to be operated with less Operators. In 1979 the Plant needed 24 operators to run the plant and now that it uses SCADA, the District has only 13 Operators to run both the North and South facilities and it gives better control of all of the process units. Discussion ensued, Manager Muth addressed all of the Board’s concerns and answered all of their questions in detail. All Board members concurred to move forward with the SCADA Modernization Plan.

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With no other matters to come before the Committee of Local Improvements, it was moved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that the Committee of Local Improvements adjourn and the Regular Board Meeting reconvene.

The regular meeting reconvened at 10:34 a.m.

Attorney Gregg Ingemunson advised the Board with the Attorney Report. He presented a Grant of Permanent Sanitary Easement between the Illinois State Toll Highway Authority and Fox Metro. After discussion, it was approved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that the Grant of Permanent Sanitary Sewer Easement for the existing interceptor on the subject property

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between the Illinois State Toll Highway Authority and Fox Metro be approved as written.

Mr. John Frerich addressed the Board with the Engineer's Report and requested approval of Partial Payment No. 11 to Whittaker Construction, in the amount of \$34,241.63 for O&M Building Phase II Improvement Project.

Mr. Frerich requested approval of Partial Payment No. 9 to Whittaker Construction, in the amount of \$ 54,907.66 for F Aeration Tanks Walkway Repairs – Phase 1 Project.

Mr. Frerich requested approval of Partial Payment No. 8 to Whittaker Construction in the amount of \$204,418.80 for H5 Clarifier and H3, H4 and H5 Vault Improvements Project.

Mr. Frerich requested approval of Partial Payment No. 3 to Walker Process Equipment in the amount of \$11,486.00 for the Clarifier H5 Mechanism Procurement Project.

Mr. Frerich requested approval of Final Payment No. 2 to H. Linden & Sons Sewer and Water, Inc., in the amount of \$7,277.00 for the Sugar Grove Pump Station – Bypass Riser Project.


Mr. Frerich requested approval of Final Payment No. 6 to Whittaker Construction & Excavating in the amount of \$50,498.30 for the Filter 3 Installation Project.

Mr. Frerich requested approval of Partial Payment No. 2 to Archon Construction in the amount of \$48,094.20 for the Fiber Optic Ductbank Improvements Project.

Mr. Frerich requested approval of Partial Payment No. 1 to Dahme Mechanical, Inc., in the amount of \$25,200.00 for the Building K – Raw Sewage Valve Replacement Project.

It was moved by Trustee Funkey seconded by Trustee Childress, put to vote and unanimously carried that the Engineer's Report be approved as published and payments be made as requested.

Trustee Funkey asked Mr. Frerich for an update on the Solar Project. Mr. Frerich reported that a revised set of plans were received on June 1, 2020




from GRNE Solar. Manager Muth, the Village of Montgomery and GRNE and the Fire District met on site to address some of the fire requirements and roadway improvements that they were needing and those requirements were addressed in the revised plans. Still waiting for the Village of Montgomery to see if everything is resolved. Approximately 7000 Solar Panels were delivered yesterday to the site. Trustee Krahn inquired when the Solar Field would go live. Manager Muth said he was advised that it would be in October. Karen Clementi reported that ComEd is on Board with them, there was a kick off call with them a couple of weeks ago and they have a very strict timeline for the interconnect and they did a very nice job outlining how they will be on board with this project. Discussion ensued regarding the Village of Montgomery requirements.

Manager Muth thanked A&E Supervisor Mike Petersen for compiling the SCADA plan information and updating him and Karen Clementi in order to provide the data for the presentation.

Manager Muth addressed the Board with the Manager's report and he discussed the Intergovernmental Agreement of Rotary Park Interceptor Replacement with the City of Aurora. He said Rotary Park is a very small piece of property in downtown Aurora. The City of Aurora wants to use this piece of property to develop and they want to reconstruct the parking lot. Also planned is to construct a new 8" sanitary sewer and connect it to the realigned 36" Fox Metro interceptor. This would allow the businesses on Broadway to connect to the proposed sewer. The existing sanitary service on Broadway would be decommissioned. Fox Metro wants to reconstruct 100 linear feet of its existing 36 inch interceptor and make it diagonal versus having two 90 degree bends. This is a hydraulic bottle neck in that area for the District's original interceptor which was built in 1929. This project was bid out through the City of Aurora and the City of Aurora will pay for the majority of the cost of this project and Fox Metro's responsibility will be approximately \$118,000.00.

Manager Muth said this project was competitively bid and there were four bidders. The Intergovernmental Agreement states that the City of Aurora and Fox Metro can collaborate on projects with Fox Metro paying its fair share.

Manager Muth said he wants the Board to be aware and understand that this project is pending and the District had to update this interceptor sewer hydraulically for a very long time. Another thing that this project will do for the District is that it will build a structure so that the sanitary sewer



can be televised from that location to Rivers Edge. The District has not been able to re-line that section of sewer because it did not have access. Manager Muth asked for the Board's approval to move forward with this project with the City of Aurora with this Intergovernmental Agreement. Discussion ensued and Manager Muth answered all of the Board's inquiries in detail. After discussion, all Board members were in Agreement to move forward with project and the Intergovernmental Agreement with the City of Aurora.

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With no other business to come before the Board, Manager Muth requested an Executive Session to review prior six months of Executive Session Minutes, discuss personnel and related matters. It was moved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that this meeting be temporarily adjourned for Executive Session.

Regular Board Meeting temporarily adjourned at 10:50 A.M.

Regular Board Meeting Reconvened at 11:17 A.M

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It was moved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that the Executive Meeting Minutes of December 18, 2019 through May 20, 2020 be accepted and all be kept closed as recommended by Manager Muth and Attorney Ingemunson.

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There being no further business to come before the Board, it was moved by Trustee Funkey, seconded by Trustee Childress, put to vote and unanimously carried that this meeting be adjourned.

Board Meeting Adjourned at 11:18 A.M.

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