

October 2018 Monthly Report

BJCJSTP Rehabilitation and Restoration Project

The following projects are either nearing completion, in construction, or in the planning stage.

Contract No.	Description	Status
Contract No. 1	Compost Facility Demolition	Complete
Contract No. 2	FEMA Mechanical	Complete
Contract No. 3	BAF Facility Demolition	Complete
Contract No. 4	MCC HH Emergency Replacement	Complete
Contract No. 5	BAF Restoration and Rehabilitation Civil Contract	Projected Phase 1 Substantial Completion April 2019. Projected Phase 2 Substantial Completion December 2019.
Contract No. 6	BAF Electrical	Projected Phase 1 Substantial Completion April 2019. Projected Phase 2 Substantial Completion December 2019.
Contract No. 7	BAF HVAC	Projected Phase 1 Substantial Completion April 2019. Projected Phase 2 Substantial Completion August 2019.
Contract No. 8	BAF Plumbing	Projected Phase 1 Substantial Completion April 2019. Projected Phase 2 Substantial Completion August 2019.
Contract No. 9	Secant Pile Contract	Complete
Contract No. 10	Solids Handling Renovation Civil Contract	Substantial Completion #1 – February 2019; Substantial Completion #2 - February 2019; Substantial Completion #3 - April, 2019; Final Completion - July 10, 2019.
Contract No. 11	Solids Handling Electrical	See Contract #10 Completion Dates
Contract No. 12	Solids Handling HVAC	See Contract #10 Completion Dates
Contract No. 13	Solids Handling Plumbing	See Contract #10 Completion Dates
Floodwall	Floodwall and New Diversion Structure	Currently in Construction. Anticipated Completion Date January 2019.

Contract Descriptions

Contract No. 1 - Compost Facility Demolition

Demolition of the upper portion of the compost facility was performed to accommodate the construction of the new Administration Building to house the plant staff as well as provide the new control room to operate the new facilities. Demolition of the lower portion of the Compost Building cleared the way for the construction of a new maintenance facility.

Contract Status: 100% Complete - Contract Closed

Contract No. 2 - FEMA Mechanical

The FEMA Mechanical Project replaces valves, equipment and other miscellaneous items damaged in the 2011 flood. It includes equipment in both the East and West Primary Sludge Pumping Stations, valves and equipment located in the Head House, and equipment associated with Sludge Thickener Pumping Station Nos. 1 and 2. The cost of the work associated with this contract is being reimbursed by FEMA due to the flood of 2011.

Status: Blue Heron has completed all of the work not deleted by change. The elutriate pumps were deleted from the scope of work and will be performed under Contract #5.

Contract Status: 100% Complete - Contract Closed

Contract No. 3 - BAF Facility Demolition

The BAF Demolition Contract removed the existing structures and utilities that conflict with the new construction work included in the BAF Rehabilitation and Restoration Project. Demolition efforts included selective demolition in the existing process tanks (C-Filters, N-Filters, and DN-Filters), buildings, mechanical equipment, and piping to ready the site for new construction.

Contract Status: 100% Complete - Contract Closed

Contract No. 4 - MCC - HH Emergency Replacement

Contract No. 4 replaced the original existing Motor Control Center (MCC) in the Head House (HH). The MCC is 50 years old and is identified as MCC-HH. The contract was bid as an emergency contract because the electrical system in the Head House was both critical to keeping the BJCJSTP in service, and because the original MCC was extremely unreliable due to the age and deteriorated condition of the gear. MCC HH Emergency replacement also replaced the existing raw sewage pump drives of the existing 50 year old equipment including new electrical feeders from the HH to the Johnson City Grit House No. 1, a new feeder from the HH to the Thickened Sludge Pump Station No. 1, and various other panel boards. The emergency work also included replacement of the existing raw sewage variable frequency drives that were located in the existing MCC HH. The new drives installed are more reliable, more efficient, and will provide better performance of the existing raw sewage pumps.

Status: All work on the MCC- HH project has been completed.

Contract Status: 100% Complete

Contract No. 5 - BAF Restoration and Rehabilitation Civil Contract

When combined with the other BAF contracts (Nos. 6, 7 & 8), Contract No. 5, the General Civil Contract, is intended to provide a functioning automated plant using a BIOSTYR system that can be modified to fit current plant configurations. It is also intended to provide functioning automated headworks and primary clarification processes upstream of the BIOSTYR system and solid handling processes downstream of the BIOSTYR system.

Major components of the work under Contract No. 5 include new coarse screens and ancillary equipment, new piping and valves for the influent pumps, new metering equipment, new fine screens and grit removal with ancillary equipment, a new primary distribution box, new mechanical equipment for primary clarifiers 1-10, new chemical equipment for primary treatment, new chemical storage building, modification of the primary clarifier structural components to replace the aged and deteriorated mechanical equipment, new secondary influent pumps for the new BAF system, a new BAF backwash tank, new CN-BAF and DN-BAF facilities, a new methanol system that will feed the DN-BAF cells, new Ultra Violet Light disinfection system to replace the existing chlorine disinfection system, new sludge thickening equipment and systems, a new administration building, new odor control equipment, two new 2MW electric generators, and a new plant outfall to the river.

Status: In October, PC only placed about 1200 CY of concrete. Their progress was impacted by several days of inclement weather. PC is reporting that they have approximately 4200 CY to complete the concrete work. Their subcontractor has stated that they only have about 3400 CY of concrete to complete. PC's subcontractor is reporting that they should be able to complete the concrete work for the CN Cells 1-8, DN Cells, PC has stated that they have placed approximately 11,600 CY of concrete since November 2017, which is an average of under 1000 CY per month.

They completed the concrete work for the trench slabs between Headworks and the Primary Distribution Box No. 1 in September but have not completed the walls for the trenches. There has been very little activity in this area. PC finally completed the masonry block work for the Headworks. They had pulled the crew from the Headworks to work on the masonry work at the Blower Building. They have finally set the precast hollow core roof planks for the Headworks, but have not completed the roofing or parapet walls above the planks. Process equipment installation is ongoing in the lower level of the Headworks, and the electrical work and plumbing are also proceeding as well.

Masonry block work for the BAF Backwash Treatment Facility is complete. PC is scheduled to do the brick work at the BAF Backwash Treatment Facility in November. Matco cannot install the electrical feeders to the BAF Backwash Treatment Facility until PC completes the brick work on the south side of the BAF Backwash Treatment Facility. PC has completed the parapet wall and has installed the roof membrane and has dried the facility in. Matco and others are installing equipment and conduit in the BAF Backwash Treatment Facility.

PC continued dowel placement for the interior walls at Primary Distribution Box #1 to accommodate the wider walls required for the primary distribution box slide gates. The dowels had to be placed to accommodate the wider wall for the gates. PC agreed to do the dowel and wider walls at no additional cost to the Owner if the Owner would allow PC to salvage the slab for the Primary Distribution Box #1. PC continued installing the Primary Influent Pipes to the PST's. PC failed to strictly comply with the requirements for the deflection joints on the primary influent pipes at Distribution Box #1. GHD reviewed the pipe installation and has confirmed that the pipe as installed would meet the requirements for the anticipated deflection needs. PC continued installing the 54 inch primary influent pipe between Distribution Box #1 and #2. They failed to complete the installation by the end of October, but they should complete this pipe installation in early November. This pipe is nearing the critical path as it has delayed Matco from installing the electrical duct bank that runs between the Generator Building and the West Primary Sludge Pump Station. This duct bank provides the power to operate PST 7-10, DN Cells, West Primary Sludge Pump Station, Methanol, and UV. We are very concerned that the delays by PC may push the electrical feed to the west facilities to the critical path.

Work on CN Cells 1-8 is being advanced. PC resumed work on the upper walls and drop boxes at CN Cells 2, 4, 6, & 8. They still have not completed the west wall of the existing CN Electrical Room. This work appears to have been waiting on the corner bars for the M line at Cell #2. PC resumed work in the north cells of CN 1-8 this month. They have installed the remaining nozzle decks and began work on the walls above the nozzle decks this month. PC began filling CN Cells 4 & 8 to determine if the cells were ready for the required leakage test. Benching is complete for CN Cells 1-8.

PC continued installing stainless steel air pipe and backwash drain pipe in the CN 1-8 gallery this month. PC completed removing the defective field welds on the stainless steel pipe, and has submitted a revised welding procedure that has been reviewed and approved by GHD. PC completed rotating the 30" valve actuators on the BAF Backwash line. PC is proceeding under protest based upon their position that the valve actuator would require an additional support to accommodate the rotated actuator. We believe that this is ultimately a contractor caused delay, and may affect start-up of the BAF Facilities. PC failed to execute this work efficiently and has caused delays to the CN 1-8 cells and the utility corridor west of CN 1-8. PC has completed the benching in bottom of all CN cells. Grouting of all of the nozzle decks is complete with the exception of Cells #1 and #2. PC is prepping the walls for the cement coating for the filter cells. They completed prepping walls in CN Cells 2, 4, 6, & 8. PC is preparing for the leak test for cells 4 and 8 by filling cells 4 and 8. PC is experiencing leakage in the cells at the construction joint between the CN half walls and the existing wall above. They continued prepping the walls for CN Cells 1, 3, 5, & 7. The Engineer determined that the cells should be leak tested before installing the cement coating. The coating is only intended to provide a smooth wall to minimize wear on the filter media from an otherwise rough concrete surface. PC's subcontractor has reported that they should finish the concrete work for the CN Cells 1-8 by the end of November.

CN Cells 9-14 walls are also being advanced. PC has been focusing on concrete for the walls in south corridor. PC is nearing completion on the cells for the cells on the south side of the structure, and has completed all of the benching in the lower level of the cells except one cell on the north side. PC has finally finished the west stairwell, but still has a small segment of the exterior wall on

the south side of the CN Cells 9-14 to complete for flood protection of the cells to elevation 845. We are pressing PC to get the elevated roof deck at the utility corridor between the new Blower Building and the CN Gallery. PC has continued working on the backwash header in the CN Cells 9-14. This will make available a substantial work area for the other multi primes as well as allow PC to begin installing their stainless steel pipe in this corridor. They have finally started installing the shoring for the form work for the concrete deck. PC's subcontractor has reported that they should complete the concrete work for CN Cells 9-14 by the end of December. We remain skeptical.

PC is continuing to place the concrete walls in the DN Cells 1 and 2 this month. They are nearing completion in the cells below the nozzle decks. PC still needs to complete the east most wall of the DN area and the tops of the divider walls between the cells. PC has installed the precast hollow core roof planks. This has opened up a significant amount of work in the DN area for the other multi primes. Mechanical and electrical trades are working in the DN Gallery. PC continued installing the stainless steel pipe and have completed the dowels for the plenum box walls. They are working on the plenum boxes, and should complete them in November. PC is projecting that they should finish the concrete work for DN Cells by the end of November. Electrical equipment such as the variable frequency drives have been installed, which has allowed Matco to put substantial resources in the gallery and building. They are installing the conduit in the gallery, and in the DN Blower Building.

PC has arranged for the coarse screens manufacturer Duperon to install remedial support in the compactors to eliminate a latent defect that was causing the compactor to plug more than it should. The remediation is scheduled for early November. PC confirmed they will continue to assist the STP staff when the unit plugs. PC continued installing the roof for the coarse screen room. Many of the leaks at the walls and other areas in the building have been resolved. PC still needs to install the blocking for the exhaust fan in the building. This will allow J&K to install the exhaust fan for controlling the environment during the winter months.

The reconstruction of Primary Setting Tanks 7-10 is nearly complete. No significant work performed on PST 7-10 this month. The concrete coating applications are complete and PC is repairing some blemishes in the coatings. PC still has to do the leak test and also repair the expansion joints. There is a unit price item to replace the failed expansion joints. We issued a request for proposal to PC in August 2017 to replace the gates to drain the basins. They have not been able procure the gates yet, and have alleged that the delivery of the gates is now on the critical path. The equipment is ready for start-up and testing, as soon as Matco can complete the electrical feed to the area. It will likely be several months before the Headworks are complete. PC's installation of the 54-inch pipe between Primary Distribution Box No. 1 and Primary Distribution Box No. 2 has prevented Matco from installing the duct bank to the West Primary Sludge Pump Station. This duct bank is essential to complete the electrical power feed to the PST's 7-10

Brick work in the area of the new UV Treatment Facility and the PW Pump Station in is nearly complete. PC completed installing the UV equipment and leak tested the gates for the UV channels. Roof membrane is now complete on both the UV building and the plant water pump station. Matco is installing conduit in the UV building. The east channel wall is still not complete and is holding up the electrical installation to the UV system.

PC continued installing the large diameter piping in the corridor between the Headworks/BAF Treatment area and PST 1-6 this month. The pipe work for the 54-inch⁶ primary influent pipe between Distribution Box No. 1 and Distribution Box No. 2 is progressing. The installation of the 54-inch pipe is holding up the duct bank that runs between the new Generator Building and the West Primary Sludge Pump Station. PC will continue installing miscellaneous yard piping in the area of the Headworks and also in the area adjacent to the floodwall on the south side of the site this month.

Construction of the new Chemical Building is nearing completion, but no significant activity has been done in this building for months. The building is ready for testing, which will be several months ahead of the need for the building. Work in the East Odor Control Building is nearing completion. All work by PC has been completed, and they are requesting a partial substantial completion for the building.

Brick work for the Blower Building continued last month, and is nearing completion. PC is installing the roof membrane on the roof panels to dry the building in for the other trades work. Matco continued conduit and cable tray installation in the Blower Building in October. PC continued their process pipe installation for air and backwash pipe in the CN gallery this month, and completed installing their structural steel and grating in the CN Cells 1-8 gallery. The conflict between the structural steel and the process piping has been resolved. PC has rotated the 30" control valves and the actuators now clear the structural steel. PC has completed the buttress walls and the concrete plenum box work in the gallery. Matco should resume work in the CN 1-8 Gallery as soon as PC completes the grating installation.

PC continued working in the Methanol containment structure this month. They have set the canopy structural steel and should install the sheet metal roof material in November. The electrical, piping, and ancillary work is ongoing in the Methanol Control Building. Pumps have been set, and PC continued installing the pipework within the building. PC completed concrete work for the methanol unloading station. They have installed the structural steel for the unloading area.

The electrical feed from the new generators to the medium voltage switchgear is progressing. Matco has completed the conduit work and has been pulling the wire to various locations in the building. They are making terminations for the wire, but they need PC to complete the restoration of the west wall of the blower building so that they can complete installing the exhausts for the generators.

Kruger equipment submittals are complete. Much of the Kruger supplied equipment is being installed at Kruger's direction. We have received most of the preliminary Operations and Maintenance manuals as well as the startup and testing plan from Kruger. PC continued preparing the concrete walls for the interior coating inside the lower portion of the CN Cells 1-8. PC has requested a variance for leak testing the cells. Their request to be allowed to install the coatings in the lower level of the cells before the leak test is performed has been rejected by GHD. PC began cleaning the walls for testing and coating.

No significant change at the new Administration Building this month. The work on the upper floor of the Administration Building is complete. The final punch list and Fire Protection System testing

is nearly complete. Miscellaneous punch list items are being resolved by PC and the other trades on a regular basis. We have received the Certificate of Occupancy from the Town of Vestal. The exhaust fans are complete and the final test and balance of the HVAC system is complete. The HVAC system has been put into the automatic mode.

Brick work on the east side of the Solids Handling Building is now complete. Backfill has been completed to allow PC to install their storm drain. PC needs to install the storm drain for the parking lot. The City decided to increase the width of the parking lot to meet Vestal Code. The parking lot will now be 60 feet wide from North to South. PC encountered asbestos containing material in the existing duct bank along the south edge of the parking lot. The material was removed via change order. PC is making an effort to complete the parking lot before the asphalt plants shut down for the winter in late November

PC completed work on the slab for the SIPS area. Erection of the buildings is ongoing. They were idle for several months in the SIPS area, and have significantly delayed the Electrical and HVAC Multi primes.

Contract Status: 76% Complete

Contract No. 6 - BAF Electrical

The BAF Electrical Contract supports the BAF General Civil Contract and includes all electrical and instrumentation associated with the BAF contracts. The components include installation of the new UV disinfection system, installation of the new generators, installation of the electrical feed throughout the plant, as well as installation of the instrumentation and SCADA System throughout the plant.

Status: Matco is nearing completion with the Courtyard switchgear installation. We have stressed the necessity with Matco to get this gear complete to avoid holding up construction of the various facilities fed from the Courtyard gear. Matco is now scheduled to complete energizing the gear in middle of November. As soon as they can power up the courtyard gear, MCC HH can be powered from the new gear. This will allow the Binghamton pumps to run off the new gear and will allow us to decommission the rented generator. GHD has issued a revised drainage drawing to address issues with the drainage of the courtyard area as well as the area north of the Generator Building.

Installation of the major conduits for the generators are complete, and MATCO is nearing completion of the wiring between the generators, the ancillary gear, and the existing plant switchgear. They are projecting completing the new generators in late November, due to PC not completing the restoration of the west wall of the Generator Building. In addition to the west wall of the Generator, PC needs to complete backfill on the west end of the Generator Building to allow J&K to install footings for their generator exhaust systems.

MATCO continued work in the West Primary Sludge Building, the East Odor Control Building, the lower level of the Administration Building, the CN 1-8 Gallery, DN Gallery, and the Methanol Building. Matco has now moved into both the upper level and the lower level of the Headworks, the BAF Backwash Treatment Facility, and is working in the new Blower Building as well. We are

looking at options for the installation of the conduit in other locations to advance the electrical work to avoid overly congested work areas at the end of construction. We keep pushing PC to open up additional areas for MATCO work, most specifically the SIPS area and the utility corridor between CN Cells 1-8 and CN Cells 9-14. MATCO has been making good progress in the Methanol Building, Blower Building, West Primary Sludge Pump Station, BAF Backwash Treatment Facility, and the lower level of the Headworks.

Contract Status: 73% Complete

Contract No. 7 - BAF HVAC

The BAF HVAC Contract supports the BAF General Civil Contract and includes installation of all HVAC Systems in all STP facilities as well as revisions to the odor control systems throughout the plant. The odor control improvements are intended to alleviate the odors that have been prevalent in the past in and around the plant.

Status: The contractor continued working on ductwork installation in various locations around the site. They are actively working in the Generator Building installing the boiler and pipe work to heat the Generator Building, Headworks and pipe gallery. J&K is ready to do their work in the SIPS area as soon as PC removes their shoring system. J&K is also actively working in the Headworks, Blower Building, and BAF Backwash Treatment Facility, which were all available to them in October. J&K has provided supporting information for the development of the CPM Schedule. They are coordinating with PC Construction and the other prime contractors.

Contract Status: 78% Complete

Contract No. 8 - BAF Plumbing

The BAF Plumbing Contract supports the BAF General Civil Contract and includes installation of plumbing systems for the new and existing facilities included in Contract No. 5.

Status: Danforth is working in various buildings around the site such as the Headworks and BAF Backwash Treatment Facility. They are also preparing for their work in the CN Cells 1-8. They are also supporting the effort by the BJCJSTP to have the sludge pipe in the existing Digester Control Building. They are coordinating with PC Construction and the other prime contractors and they have confirmed that they can meet the required milestones of the Consent Order.

Contract Status: 81% Complete

Contract No. 9 - Secant Pile Contract

The Secant Pile Contract includes installation of the secant piles that support the excavation for the new BAF Backwash tank as well as supporting the new CN Cells 9-14. Construction also includes excavation to the final grade for the BAF backwash tank. This project was bid separately from Contracts 5-8. In doing so, a minimum of four months on the critical path schedule was saved.

Status: The installation of the secant pile wall is complete. Close out documents have been prepared and are being submitted to close out this project.

Contract Status: 100% Complete - Contract Closed

Contract No. 10 -Solids Handling Renovation Civil

Contract No. 10 is intended to renovate and improve the solids handling systems including the existing Digester Control Building, existing digesters, solids dewatering systems, and all ancillary equipment. As part of the improvement to the solids handling process the following components will be constructed or installed. The new structures include a new Solids Handling Building, a new Gas Conditioning Building, and a new Sludge Loading Facility. The new equipment being installed includes new centrifuges, new mechanical thickeners, new gas processing equipment, new microturbines, and new scum screening equipment. The scope was further developed during the design processes to include sludge blend tanks. Additionally, the contract renovates the existing laboratory facilities at the STP. The contract was bid as a multi-prime contract consistent with New York State Construction Contract Requirements.

Status: Brick work for the new Solids Handling Building completed this month. Concrete work for the Gas Conditioning Equipment Building is complete. Renovation for the Lab at the Headhouse is ongoing. Quandel has about two months work to complete the work in the lab.

Quandel is actively installing the mechanical systems in the Solids Handling Building now that they have installed the precast hollow core roof planks. The roof drains are installed, and Quandel is actively working to complete the concrete coating inside the concrete tanks. They were not making any progress on the removal and recertification of the gas conditioning equipment, so we were forced to remove the work from their scope of work and the City is procuring the equipment on a sole source contract. They are alleging that they are not responsible for reconditioning the equipment. Quandel declined to quote a cost proposal to recoat the inside of digesters 1 & 2, which are the two smaller digesters. Quandel has dropped their dispute for furnishing of 7 flow meters that they allege were not included in the contract. Quandel continued installing the coatings inside the new sludge tanks under protest. We are working hard to get Quandel to complete the digester start-up, but it will not happen until the digester gas equipment and the digester mixing equipment is completed by the City in early 2019.

Quandel continued to work in the Sludge Thickener Pump Stations, and will be able to complete the sludge grinders in the Digester Complex in November after the sludge piping is cleaned. We will continue work on cleaning the Digester Gas Pipe in the Digester Building in November. We have developed and implemented a plan to save the City in excess of \$300K from the price quoted by the Contractors to do this work.

Contract Status: 79% Complete

Contract No. 11 - Solids Handling - Electrical

The Solids Handling Electrical Contract supports the Solids Handling General Civil Contract and includes installation of electrical for the new and existing facilities included in Contract No. 10.

Status: The electrical contractor is MATCO, as it is on the BAF Contract No. 6. MATCO continues to support the General Civil Contractor's schedule.

Contract Status: 32% Complete

Contract No. 12 - Solids Handling - HVAC

The Solids Handling HVAC Contract supports the Solids Handling General Civil Contract and includes installation of HVAC systems for the new and existing facilities included in Contract No. 10.

Status: The HVAC contractor is J&K Plumbing, as it is on the BAF Contract No. 7. J&K continues to install the boiler and associated piping in the Digester Control Building, and began installing the HVAC equipment in the Solids Handling Building. . They are also supporting the General Civil Contractor's schedule.

Contract Status: 68% Complete

Contract No. 13 - Solids Handling - Plumbing

The Solids Handling Plumbing Contract supports the Solids Handling General Civil Contract and includes installation of plumbing systems for the new and existing facilities included in Contract No. 10.

Status: The plumbing contractor is JW Danforth, as it is on the BAF Contract No. 8. Danforth is making good progress installing the plumbing in the Solids Handling Building and also the Digester Control Building. Danforth continues to support the General Civil Contractor's schedule. Danforth is also supporting on the cleaning of the Sludge and Digester Gas Piping in the Digester Control Building.

Contract Status: 73% Complete

Floodwall

The new floodwall being constructed at the STP is intended to protect the plant to an elevation 1.5 feet above the 2011 flood level. The floodwall includes concrete walls on the east and north sides of the STP. The project also includes two new pump stations to pump up stream out of the plant during the storm events. The new floodwall system works in conjunction with new floodwall features included in Contract No.5 BAF General Civil Construction. The floodwall systems are being funded by a FEMA recovery grant.

Status: The concrete floodwall under Streeter's contract has been completed. Startup and testing of the two storm water pump stations is complete. The access platform for the valves at the two storm drain pump stations are now complete.

Streeter has completed installing the 54" gate in MH#3. They will install the remaining section of precast manhole onto the structure, which will allow the final work for the 54 inch gate to be completed. The new gate that allows the flow from Binghamton to be shut off in the event of flooding in the river to elevation 838 will be operational in early November. Streeter is having to replan their 54" gate installation in the Sampling Manhole. The elevation of the sewage in the 54" Binghamton line is at or above the midpoint of the pipe due to the set point elevation for the Binghamton Pumps in the influent flume in the Headhouse.

Streeter has removed the upper portion of the Sampling Manhole. The structure is different than shown on the drawings. Streeter cast a special concrete transition piece to adapt the smaller than anticipated existing lower concrete manhole to the precast concrete manhole that we already have.

Streeter has delayed any repair work of the coatings in Digesters #1 and #2, and we are not sure that we will be able coat the upper level of the 2 digesters before they have to be completed by Quandel.

Contract Status: 95% Complete

NOTES:

1. SWPPP measures continue to be maintained by all contracts. Any deficiencies noted during daily or weekly inspections are promptly remedied. Additional truck trap entrances have been installed at the new entrances. We are pushing PC to get the new Administration Building Parking lot completed before the end of November.

2. Weekly meetings are held for each contract to discuss the progress of the work and identify and resolve issues and problems. Meetings between contractors on the various contracts are held as necessary to facilitate any concerns and coordinate work between all contracts.

Background

The Binghamton-Johnson City Joint Sewage Treatment Plant (BJCJSTP) processes 18 million gallons per day with the capability of processing up to 60 million gallons per day (MGD) of wet weather flow. This plant is jointly owned by the City of Binghamton and the Village of Johnson City and managed by the Binghamton-Johnson City Joint Sewage Board (BJCJSB).

The BJCJSTP has suffered several catastrophic events since 2006. In 2006, the BJCJSTP was flooded by a 500 year flood that affected many of the processes in operation. In May of 2011, a

concrete structure suffered structural failure, and in September 2011, the BJCJSTP suffered another 500 year flood that critically damaged equipment and rendered the secondary treatment fundamentally inoperable. The secondary process system is still largely inoperable today. A Consent Order was negotiated between the City of Binghamton, the Village of Johnson City, the BJCJSB and the NYSDEC to develop a plan to restore treatment operations at the BJCJSTP. The Consent Order requires the BJCJSTP to restore secondary treatment functionality and be able to fully treat 35 MGD of wet weather flow by August 1, 2018. To achieve this level of treatment, the reconstruction and testing of the Secondary Treatment Process must be completed as necessary to achieve treatment of 35 MGD. To comply with the Consent Order, the Sewage Treatment Plant must then be fully operable by May, 1, 2019, including the remainder of the secondary treatment process. There are also several interim milestones included in the Consent Order. The Consent Order has been amended to extend several interim milestones, and DEC has been made aware of the likely finish of the Phase 1 Milestone after the August 1, 2018.


The project is being constructed in accordance with Wicks Law, which requires that the project be bid as multiple prime contracts. More specifically, Wicks Law requires that the bulk of the construction work, consisting of the secondary treatment biological filtration filters (BAF), be divided into a General Civil Construction Contract, an Electrical Contract, an HVAC Contract and a Plumbing Contract.

Contract 5 – BJCISTP
Restoration and
Rehabilitation, September
2018 Construction Progress
Photos



Primary Distribution Box #1 – 36 inch Ductile Iron Pipe (DIP) Out of the North
Wall

Contract 5 – BICJSTP
Restoration and
Rehabilitation, September
2018 Construction Progress
Photos

A wide-angle photograph of a construction site. In the foreground and middle ground, a network of wooden formwork and steel reinforcement bars (rebar) is visible, laid out on a flat surface. Several construction workers wearing high-visibility vests and hard hats are positioned around the site, some appearing to be adjusting the rebar or formwork. The background shows a large brick building under renovation, with some areas covered in white plastic sheeting. The sky is overcast.

Headworks – Grit Tank Walkway and Beam Concrete Placement

Contract 5 – BICJSTP
Restoration and
Rehabilitation, September
2018 Construction Progress
Photos



Sludge Thickener No. 1 – Leveling Rake Arms

Contract 5 – BJCISTP
Restoration and
Rehabilitation, September
2018 Construction Progress
Photos

DN Filter Complex – Lower Level Overhead Pipe Installation



Contract 5 – BJCJSTP
Restoration and
Rehabilitation, September
2018 Construction Progress
Photos




09 14 2018 09 1

CN 9-14 – Cell 13 Column Reinforcing Steel and Partial Form Work

Contract 10 – BJCJSTP
Restoration and
Rehabilitation, July 2018
Construction Progress
Photos

Solids Handling Building: West Wall Progress View

43



Contract 12 – BJCJSTP
Restoration and
Rehabilitation, July 2018
Construction Progress
Photos

Digester Control Building: Setting Air Handling Unit on top of the Digester
Control Building