



State of Ohio  
**Public Works Commission**  
*Application for Financial Assistance*

**IMPORTANT:** Please consult "Instructions for Financial Assistance for Capital Infrastructure Projects" for guidance in completion of this form.

Applicant

Applicant: Ottawa County Subdivision Code: 123-00123

District Number: 5 County: Ottawa Date: 08/28/2020

Contact: Gino Monaco Phone: (419) 734-6725  
(The individual who will be available during business hours and who can best answer or coordinate the response to questions)

Email: gmonaco@co.ottawa.oh.us FAX: (419) 734-6858

Project

Project Name: Ottawa County RWTP - Filter Media Replacement Project Zip Code: 43452

Subdivision Type <small>(Select one)</small>	Project Type <small>(Select single largest component by \$)</small>	Funding Request Summary <small>(Automatically populates from page 2)</small>
<input checked="" type="checkbox"/> 1. County	<input type="checkbox"/> 1. Road	Total Project Cost: <u>275,000 .00</u>
<input type="checkbox"/> 2. City	<input type="checkbox"/> 2. Bridge/Culvert	1. Grant: <u>0 .00</u>
<input type="checkbox"/> 3. Township	<input checked="" type="checkbox"/> 3. Water Supply	2. Loan: <u>275,000 .00</u>
<input type="checkbox"/> 4. Village	<input type="checkbox"/> 4. Wastewater	3. Loan Assistance/ Credit Enhancement: <u>0 .00</u>
<input type="checkbox"/> 5. Water (6119 Water District)	<input type="checkbox"/> 5. Solid Waste	Funding Requested: <u>275,000 .00</u>
	<input type="checkbox"/> 6. Stormwater	

**District Recommendation** (To be completed by the District Committee)

Funding Type Requested <small>(Select one)</small>	SCIP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<input type="checkbox"/> State Capital Improvement Program	RLP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<input type="checkbox"/> Local Transportation Improvement Program	Grant:	Amount: _____ .00
<input type="checkbox"/> Revolving Loan Program	LTIP:	Amount: _____ .00
<input type="checkbox"/> Small Government Program	Loan Assistance / Credit Enhancement:	Amount: _____ .00
District SG Priority: _____		

**For OPWC Use Only**

STATUS: _____	Grant Amount: _____ .00	Loan Type: <input type="checkbox"/> SCIP <input type="checkbox"/> RLP
Project Number: _____	Loan Amount: _____ .00	Date Construction End: _____
	Total Funding: _____ .00	Date Maturity: _____
Release Date: _____	Local Participation: _____ %	Rate: _____ %
OPWC Approval: _____	OPWC Participation: _____ %	Term: _____ Yrs

1.0 Project Financial Information (All Costs Rounded to Nearest Dollar)

1.1 Project Estimated Costs

Engineering Services

Preliminary Design:	_____	.00	
Final Design:	<u>28,200</u>	.00	
Construction Administration:	<u>42,600</u>	.00	
Total Engineering Services:	a.) <u>70,800</u>	.00	<u>38</u> %
Right of Way:	b.) _____	.00	
Construction:	c.) <u>184,300</u>	.00	
Materials Purchased Directly:	d.) _____	.00	
Permits, Advertising, Legal:	e.) <u>1,470</u>	.00	
Construction Contingencies:	f.) <u>18,430</u>	.00	<u>10</u> %
Total Estimated Costs:	g.) <u>275,000</u>	.00	

1.2 Project Financial Resources

Local Resources

Local In-Kind or Force Account:	a.) _____	.00	
Local Revenues:	b.) _____	.00	
Other Public Revenues:	c.) _____	.00	
ODOT / FHWA PID: _____	d.) _____	.00	
USDA Rural Development:	e.) _____	.00	
OEPA / OWDA:	f.) _____	.00	
CDBG:	g.) _____	.00	
<input type="checkbox"/> County Entitlement or Community Dev. "Formula"			
<input type="checkbox"/> Department of Development			
Other: _____	h.) _____	.00	
Subtotal Local Resources:	i.) <u>0</u>	.00	<u>0</u> %

OPWC Funds (Check all requested and enter Amount)

Grant: <u>0</u> % of OPWC Funds	j.) _____	.00	
Loan: <u>100</u> % of OPWC Funds	k.) <u>275,000</u>	.00	
Loan Assistance / Credit Enhancement:	l.) <u>0</u>	.00	
Subtotal OPWC Funds:	m.) <u>275,000</u>	.00	<u>100</u> %
Total Financial Resources:	n.) <u>275,000</u>	.00	<u>100</u> %

### 1.3 Availability of Local Funds

Attach a statement signed by the Chief Financial Officer listed in section 5.2 certifying all local resources required for the project will be available on or before the earliest date listed in the Project Schedule section. The OPWC Agreement will not be released until the local resources are certified. Failure to meet local share may result in termination of the project. Applicant needs to provide written confirmation for funds coming from other funding sources.

### 2.0 Repair / Replacement or New / Expansion

2.1 Total Portion of Project Repair / Replacement:	<u>275,000</u> .00	<u>100</u> %
2.2 Total Portion of Project New / Expansion:	<u>0</u> .00	<u>0</u> %
2.3 Total Project:	<u>275,000</u> .00	<u>100</u> %

A Farmland Preservation letter is required for any impact to farmland

### 3.0 Project Schedule

3.1 Engineering / Design / Right of Way	Begin Date: <u>01/16/2020</u>	End Date: <u>06/17/2020</u>
3.2 Bid Advertisement and Award	Begin Date: <u>07/01/2021</u>	End Date: <u>09/01/2021</u>
3.3 Construction	Begin Date: <u>09/15/2021</u>	End Date: <u>04/15/2022</u>

Construction cannot begin prior to release of executed Project Agreement and issuance of Notice to Proceed.

Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by project official of record and approved by the Commission once the Project Agreement has been executed.

### 4.0 Project Information

If the project is multi-jurisdictional, information must be consolidated in this section.

#### 4.1 Useful Life / Cost Estimate / Age of Infrastructure

Project Useful Life: 20 Years      Age: 1999 (Year built or year of last major improvement)

*Attach Registered Professional Engineer's statement, with seal or stamp and signature confirming the project's useful life indicated above and detailed cost estimate.*

#### 4.2 User Information

Road or Bridge:      Current ADT \_\_\_\_\_ Year \_\_\_\_\_      Projected ADT \_\_\_\_\_ Year \_\_\_\_\_

Water / Wastewater: Based on monthly usage of 4,500 gallons per household; attach current ordinances.

Residential Water Rate      Current \$ 23.00      Proposed \$ 23.00

Number of households served: 7,910

Residential Wastewater Rate      Current \$ 36.00      Proposed \$ 36.00

Number of households served: 5,278

Stormwater: Number of households served: \_\_\_\_\_

### 4.3 Project Description

- A: SPECIFIC LOCATION (Supply a written location description that includes the project termini; a map does not replace this requirement.) 500 character limit.

This project is located at the Ottawa County Regional Water Treatment Plant. The location is 1405 West Fremont Road, Port Clinton, Ohio 43452

- B: PROJECT COMPONENTS (Describe the specific work to be completed; the engineer's estimate does not replace this requirement) 1,000 character limit.

The project includes the removal of the existing filter media in four (4) filter cells, inspection of the existing nozzles in the filter bottom for damage and replacement of any damaged nozzles. Work also includes the installation of new filter media to match the original filter media, backwash the filter media and disinfection of each filter after backwash. This work is repeated in each of the four filter cells.

- C: PHYSICAL DIMENSIONS (Describe the physical dimensions of the existing facility and the proposed facility. Include length, width, quantity and sizes, mgd capacity, etc in detail.) 500 character limit.

There are four (4) individual filter cells requiring filter media replacement. Each filter cell is 18' X 20' in size and all are located in a cluster together. Each filter cell has approximately 30-inches of media depth. There is also a contingent quantity of 500 nozzles if there are some that need replacement.

## 5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

### 5.1 Chief Executive Officer (Person authorized in legislation to sign project agreements)

Name: Mark Stahl  
Title: President, Board of County Commissioners  
Address: 315 Madison Street  
Room 103  
City: Port Clinton State: OH Zip: \_\_\_\_\_  
Phone: (419) 734-6700  
FAX: (419) 734-6858  
E-Mail: mstahl@co.ottawa.oh.us

### 5.2 Chief Financial Officer (Can not also serve as CEO)

Name: Jennifer Widmer  
Title: County Auditor  
Address: 315 Madison Street  
Room 202  
City: Port Clinton State: OH Zip: 43452  
Phone: (419) 734-6742  
FAX: (419) 734-6592  
E-Mail: jwidmer@co.ottawa.oh.us

### 5.3 Project Manager

Name: James K. Frey  
Title: Sanitary Engineer  
Address: 315 Madison Street  
Room 105  
City: Port Clinton State: OH Zip: 43452  
Phone: (419) 734-6725  
FAX: (419) 734-6858  
E-Mail: kfrey@co.ottawa.oh.us

## 6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

- A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- A certification signed by the applicant's chief financial officer stating the amount of all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.
- A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's seal or stamp and signature.
- A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- Farmland Preservation Review - The Governor's Executive Order 98-IV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.
- Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.
- Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

## 7.0 Applicant Certification

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

**Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.**

Mark Stahl, President, Board of Commissioners

Certifying Representative (Printed form, Type or Print Name and Title)

 9-3-2020  
Original Signature / Date Signed

RESOLUTION NO. 20-30

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF OTTAWA COUNTY, OHIO DESIGNATING AND AUTHORIZING THE MEMBERS OF THE BOARD OF COUNTY COMMISSIONERS AS THE SIGNATORY FOR ALL FORMS AND DOCUMENTS RELATED TO THE STATE ISSUE II FUNDING APPLICATIONS TO THE OHIO PUBLIC WORKS COMMISSION

The Board of County Commissioners of the County of Ottawa, Ohio, met in regular session at the office of the Board of County Commissioners, Ottawa County Courthouse, Port Clinton, Ohio on the 4<sup>th</sup> day of August, 2020, at the regular place of meeting with the following members present:

Mark W. Stahl

Donald A. Douglas

Mark E. Coppeler

Commissioner Douglas offered the following resolution and moved its passage, which was duly seconded by Commissioner Coppeler.

WHEREAS, the State Capital Improvement Program and the Local Transportation Improvement Program both provide financial assistance to political subdivisions for capital improvements to public infrastructure, and

WHEREAS, Ottawa County is eligible to receive financial assistance from the Ohio Public Works Commission to finance capital improvements, and

WHEREAS, the Ohio Public Works Commission requires individuals to be designated and authorized to sign all forms and documents associated with applications to the Ohio Public Works Commission.


NOW THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Ottawa County, Ohio:

SECTION 1: That the members of the Board shall be and are hereby designated as signatory designees.

SECTION 2: That the members of said Board shall be and are hereby authorized to sign all forms and documents associated with applying for financial assistance to the Ohio Public Works Commission.

Vote on Motion: Mark W. Stahl, yes; Donald A. Douglas, yes, Mark E. Coppeler, yes.

I, Rhonda Slauterbeck, County Administrator/Clerk of the Board of Commissioners of Ottawa County, Ohio, hereby do certify that the above is a true and correct copy of a resolution adopted by said Board under said date and as same appears in Commissioners' Journal, Volume 102.

  
Rhonda Slauterbeck, County Administrator/Clerk  
Board of Ottawa County Commissioners

Prepared by: Sanitary Engineering Dept.

c: Sanitary Engineering Dept.  
County Engineer

**CHIEF FINANCIAL OFFICERS CERTIFICATION OF  
LOAN REPAYMENT**

**September 3, 2020**

I Jennifer Widmer, County Auditor of Ottawa County, Ohio do hereby certify that the Ottawa County Sanitary Engineering Department will collect the amount of \$ 275,000.00 through its monthly user rates and charges and that this amount will be paid into the Ottawa County Regional Water Treatment and Transmission Operations Fund and will be used to repay the Ohio Public Works Commission SCIP or RLP loan over a 20 year term.

  
\_\_\_\_\_  
Jennifer Widmer, Auditor of Ottawa County, Ohio



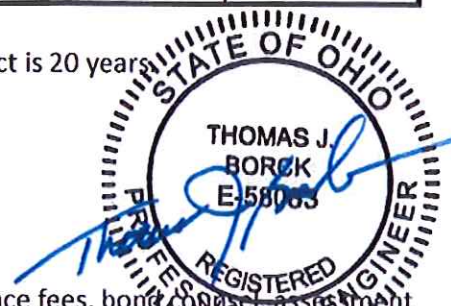
**PROBABLE PROJECT COST ESTIMATE  
OTTAWA COUNTY WATER TREATMENT PLANT FILTER MEDIA REPLACEMENT  
OTTAWA COUNTY, OHIO**

Thursday, August 06, 2020

Item	Probable Quantity	Units	Price	Amount
Filter Media Removal and Cleaning Filter Cell	4	Each	\$ 5,000	\$ 20,000
Inspect Nozzles, Replace as necessary. Supplemental quantity to be used for nozzles not damaged by contractor.	4	Each	\$ 1,200	\$ 4,800
Remove existing filter media and replace with new filter media to the same specification	4	Each	\$ 32,000	\$ 128,000
Disinfect, backwash and sample filter after media replacement	4	Each	\$ 1,000	\$ 4,000
Supplemental quantity of filter nozzles to replace broken nozzles not caused by contractor damage. Only to be used upon approval of the Engineer.	500	Each	\$ 25	\$ 12,500
Mobilization and Demobilization	1	LS	\$ 15,000	\$ 15,000
<b>CONSTRUCTION COST</b>				\$ 184,300
Contingency (10%)				\$ 18,430
<b>TOTAL CONSTRUCTION COST</b>				\$ 202,730
Permits, Advertising and Legal				\$ 1,470
Engineering Design				\$ 28,200
Bidding and Negotiations				\$ 4,200
Engineering During Construction				\$ 8,400
Construction Observation (Only if needed, Not currently in PDG contract)				\$ 30,000
<b>TOTAL PROBABLE PROJECT COST</b>				\$ 275,000

The probable weighted useful life of the filter media replacement project is 20 years.

  
 \_\_\_\_\_  
 Thomas J. Borck, P.E.



Note: This estimate does not include interest during construction, finance fees, bond costs, assessment fees, bond insurance, or other miscellaneous expenses which can add up to 5% to 10% of the total cost once actual financing sources are finalized.

8/6/2020

**DISTRICT 5  
CAPITAL IMPROVEMENT PROJECTS  
QUESTIONNAIRE  
ROUND 35**

Name of Applicant: Ottawa County Sanitary Engineering Department  
 Project Title: OCRWTP – Filter Media Replacement & Rehab Project

The following questions are to be answered for each application submitted for State Issue II SCIP, LTIP and Loan Projects. Please provide specific information using the best documentation available to you. Justification of your responses to these questions will be required if your project is selected for funding, so please provide correct and accurate responses. **Communities and Townships under 5,000 in population should also complete the Small Government Criteria.**

1. What percentage of the project in repair A= 100%, replacement B=   %, expansion C=   %, and new D=   %? (Use dollar amounts of project to figure percentages and make sure the total equals one hundred(100) percent) A+B= 100 % C+D=   % **ORC Reference(s):164.06(B)(1); 164.14(E)(10)**

Repair/Replacement = Repair or Replacement of public facilities owned by the government (any subdivision of the state).

New/Expansion = Replacement of privately owned wells, septic systems, private water or wastewater systems, etc.

- 2a. Existing Physical Condition of Infrastructure **ORC Reference(s):164.06(B)(2);164.14(E)(9);164.14(E)(2); 164.14(E)(8)**

Points	Category	Description	Examples
10	Failing	Infrastructure has reached a point where it requires replacement, reconstruction or reconfiguration to fulfill its purpose	-Intersection Reconfiguration due to accident problem- Structural paving of 3.5" or greater of additional pavement - Pavement Widening to meet ODOT L&D Standards - Complete Pavement Reconstruction - Water or Sewer Line Replacement - Water or Sewer Plant Replacement - Widening graded shoulder width to ODOT L&D Standard -Complete Bridge or Culvert replacement
8	<b>Poor</b>	The condition is substandard and requires repair or restoration in order to return to the intended level of service and comply with current design standards. Infrastructure contains deficiency and is functioning at a diminished capacity.	-Multiple course of paving - Structural Culvert Lining - Bridge Deck Replacement - Replacement of a significant part of a water or sewer plant - Single course of paving with

			25% base repair-Widening graded shoulder width to less than ODOT L&D Standard
6	Fading	The condition requires reconditioning to continue to function as originally intended.	-Single course of paving -Sewer Lining Projects -Water tower painting -Replacement of pumps, hydrants, valves, filters, etc in existing water and sewer systems-Widening aggregate berm on existing graded shoulder width
4	Fair	The condition is average, not good or poor. The infrastructure is still functioning as originally intended. Minor deficiencies exist requiring repair to continue to function as originally intended and/or to meet current design standards	
2	Good	The condition is safe and suitable to purpose. Infrastructure is functioning as originally intended, but requires minor repairs and/or upgrades to meet current design standards	
0	Excellent	The condition is new or requires no repair. Or, no supporting documentation has been submitted	

2b. Age of Infrastructure **ORC Reference(s):164.06(B)(2)**

Life	20	30	50
Project Type	Road	Wastewater and Water Treatment	Bridge/Culvert, Sanitary Sewer, Water Supply, Storm Water, Solid Waste
Points			
0	0-4 Years	0-6 Years	0-10 Years
1	5-8 Years	7-12 Years	11-20 Years
2	9-12 Years	13-18 Years	21-30 Years
<b>3</b>	13-16 Years	<b>19-24 Years</b>	31-40 Years
4	17-20 Years	25-30 Years	41-50 Years
5	20+ Years	30+ Years	50+ Years

3. Health and Safety Rating: **ORC Reference(s):164.06(B)(4),164.14(E)(1); 164.14(E)(10)**

If the proposed project is not approved what category would best represent the impact on the general health

and/or public safety?

## ROADS

Extremely Critical:	Resurfacing, Restoration, Rehabilitation and Reconstruction (4R) of a Major Access Road.*
Critical:	Resurfacing, Restoration and Rehabilitation (3R) of a Major Access Road.*
Major:	Resurfacing, Restoration, Rehabilitation and Reconstruction (4R) of a Minor Access Road.*
Moderate:	Resurfacing, Restoration and Rehabilitation (3R) of a Minor Access Road.*
Minimal:	Preventative Maintenance of a Major Access Road.
No Impact:	Preventative Maintenance of a Minor Access Road.

**Projects that have a variety of work will be scored in the LOWEST category of work contained in the Construction Estimate.**

### *Road/Street Classifications:*

<i>Major Access Road:</i>	<i>Roads or streets that have a dual function of providing access to adjacent properties and providing through or connecting service between other roads.</i>
<i>Minor Access Road:</i>	<i>Roads or streets that primarily provide access to adjacent properties without through continuity, such as cul-de-sacs or loop roads or streets.</i>
<i>Preventative Maintenance:</i>	<i>Non Structural Pavement work such as chip sealing, cape sealing, micro-surfacing, crack sealing, etc.</i>

\***(3R) Resurfacing, Restoration and Rehabilitation - Improvements to existing roadways, which have as their main purpose, the restoration of the physical features (pavement, curb, guardrail, etc.) without altering the original design elements. (Surface and Intermediate layer Mill and Fills, overlays with less than or equal to 3.5" of additional pavement, etc....)**

\***(4R) Resurfacing, Restoration, Rehabilitation and Reconstruction - Much like 3R, except that 4R allows for the complete reconstruction of the roadway and alteration of certain design elements (i.e., lane widths, shoulder width, SSD, overlays with greater than 3.5" of additional pavement. etc.).**

### BRIDGES SUFFICIENCY RATING

Extremely Critical:	0-25, or a General Appraisal rating of 3 or less.
Critical:	27-50, or a General Appraisal rating of 4.
Major:	51-65 or a General Appraisal rating of 5 or 6.
Moderate:	66-80 or a General Appraisal rating of 7.

Minimal: 81-100 or a General Appraisal rating of more than 7.

No Impact: Bridge on a new roadway.

#### WASTEWATER TREATMENT PLANTS

Extremely Critical: Environmental Protection Agency (EPA) orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.

Critical: Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.

Major: Replace deficient appurtenances. Update existing processes due to EPA recommendations.

Moderate: Increase capacity to meet current needs or update processes to improve effluent quality.

Minimal: New/Expansion project to meet a specific development proposal.

No Impact: New/Expansion to meet future or projected needs.

#### WATER TREATMENT PLANT

Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order.

**Critical:** Improvements to meet Environmental Protection Agency (EPA) Safe Drinking Water Regulations and/or NPDES Orders.

Major: Replace deficient appurtenances. Update existing processes due to EPA recommendations.

Moderate: Increase capacity to meet current needs or update processes to improve water quality.

Minimal: New/Expansion project to meet a specific development proposal.

No Impact: New/Expansion to meet future or projected needs.

#### COMBINED SEWER SEPARATIONS (May be construction of either new storm or sanitary sewer as long as the result is two separate sewer systems.)

Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.

Critical: Separate, due to chronic backup or flooding in basements.

Major: Separate, due to documented water quality impairment, or due to EPA

recommendations.

- Moderate: Separate, due to specific development proposal within or upstream of the combined system area.
- Minimal: Separate, to conform to current design standards.
- No Impact: No positive health effect.

#### STORM SEWERS

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Chronic flooding (structure damage).
- Major: Inadequate capacity (land damage).
- Moderate: Inadequate capacity with no associated damage.
- Minimal: New/Expansion to meet current needs.
- No Impact: New/Expansion to meet future or project needs.

#### CULVERTS

- Extremely Critical: Structurally deficient or functionally obsolete. Deterioration has already caused a safety Critical: hazard to the public.
- Critical: Inadequate capacity with land damage and the existing or high probability of property damage.
- Major: Inadequate capacity (land damage).
- Moderate: Inadequate capacity with no associated damage.
- Minimal: New/Expansion to meet current needs.
- No Impact: New/Expansion to meet future or projected needs.

#### SANITARY SEWERS

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.
- Critical: Replace, due to chronic pipe failure, chronic backup or flooding in basements. Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.

- Major: Replace, due to inadequate capacity or infiltration, or due to EPA recommendations.
- Moderate: Rehabilitate to increase capacity to meet current needs or to reduce inflow and infiltration.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

#### SANITARY LIFT STATIONS AND FORCE MAINS

- Extremely Critical: Structurally deficient. Deterioration has already caused a safety/health hazard to the public, or, EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Inadequate capacity with actual or a high probability of property damage. Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: EPA recommendations, or, reduces a probable health and/or safety problem.
- Moderate: Rehabilitate to increase capacity to meet current needs.
- Minimal: New/Expansion to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

#### WATER PUMP STATIONS

- Extremely Critical: Structurally deficient. Deterioration has already caused a safety hazard to the public, or, EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Inadequate capacity with the inability to maintain pressure required for fire flows.
- Major: Replace due to inadequate capacity or EPA recommendations.
- Moderate: Rehabilitate to increase capacity to meet current needs.
- Minimal: New/Expansion to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

#### WATER LINES/WATER TOWERS

- Extremely Critical: Solve low water pressure or excessive incidents of main breaks in project area.
- Critical: Replace, due to deficiency such as excessive corrosion, etc.

- Major: Replace undersized water lines as upgrading process.
- Moderate: Increase capacity to meet current needs.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

OTHER

- Extremely Critical: There is a present health and/or safety threat.
- Critical: The project will provide immediate health and/or safety benefit.
- Major: The project will reduce a probable health and/or safety problem.
- Moderate: The project will delay a health and/or safety problem.
- Minimal: A possible future health and/or safety problem mitigation.
- No Impact: No health and/or safety effect.

*NOTE: Combined projects that can be rated in more than one subset may be rated in the other category at the discretion of the District 5 Executive Committee. In general, the majority of the cost or scope of the project shall determine the category under which the project will be scored.*

(Submittals without supporting documentation will receive 0 Points for this question.)

Extremely Critical \_\_\_\_, Critical  X , Major \_\_\_\_, Moderate \_\_\_\_, Minimal \_\_\_\_, No Impact \_\_\_\_. Explain your answer.

(Additional narrative, charts and/or pictures should be attached to questionnaire)

4. Identify the amount of local funds that will be used on the project as a percentage of the total project cost. **ORC Reference 164.06(B)(6); ORC 164.06(B)(3)**

A.) Amount of Local Funds = \$  275,000

B.) Total Project Cost = \$  275,000

RATIO OF LOCAL FUNDS DIVIDED by TOTAL PROJECT COSTS (A÷B)=  100  %

Note: Local funds should be considered funds derived from the applicant budget or loans funds to be paid back through local budget, assessments, rates or tax revenues collected by the applicant.

5. Identify the amount of other funding sources to be used on the project, excluding SCIP or LTIP Funds,



as a percentage of the total project cost. **ORC Reference(s):164.06(B)(7);164.14(E)(4)**

Grants \_\_\_\_% Gifts \_\_\_\_%, Contributions \_\_\_\_%

Other \_\_\_\_% (explain) \_\_\_\_\_ , Total 0 %

Note: Grant funds and other revenues not contributed or collected through taxes by the applicant should be considered other funds. The Scope of Work for each Funding Source must be the same.

- 6. Total Amount of SCIP and Loan Funding Requested- An Applicant can request a grant per the categories below for points as indicated on the Priority Rating Sheet. If the Applicant is including a loan request equal to, but not exceeding 50% of the OPWC funding amounts listed below, there will be no point penalty. If loan funds requested are more than 50%, points as listed in the Priority Rating Sheet will apply. **ORC Reference(s):164.14(E)(10);164.06(B)(5)**

_____	\$500,001 or More
_____	\$400,001-\$500,000
_____	\$325,001-\$400,000
_____	\$275,001-\$325,000
<u>  X  </u>	\$175,001-\$275,000
_____	\$175,000 or Less

There are times when the District spends all of the grant money and has loan money remaining. When this happens, the district makes a loan offer in the amount of the requested grant to the communities that were not funded. The offers are made in the order of scoring. We need to know if you are not successful in obtaining grant dollars for your project if you would be interested in loan money:

YES   X   NO \_\_\_\_\_

(This will only be considered if you are not funded with grant money and there is remaining loan money.) **Please note: if you answer “no” you will not be contacted, only if you answer “yes” will an offer be made in the event that there is loan money remaining.**

- 7. If the proposed project is funded, will its completion directly result in the creation of permanent full-time equivalent (FTE) jobs (FTE jobs shall be defined as 35 hours/week) ? Yes \_\_\_\_ No \_\_\_\_ . If yes, how many jobs within eighteen months?   0   Will the completed project retain jobs that would otherwise be permanently lost? Yes \_\_\_\_ No \_\_\_\_ . If yes, how many jobs   0   **will be created/retrained** within 18 months **following the completion of the improvements?**

**ORC Reference(s): 164.14(E)(3);164.14(E)(10)**

(Supporting documentation in the form of letter from affected industrial or commercial enterprises that specify full time equivalent jobs that will be retained or created directly by the installation or improvement of Public infrastructure. Additional items such as; 1) newspaper articles or other media news accounts, 2) public meeting minutes, and/or 3) a letter from the County Economic Development Director or State of Ohio Economic Development Professional that alludes to the requirement for the infrastructure improvement to support the business. Submittals without supporting documentation will

receive 0 points for this question.)

8. What is the total number of existing users that will directly benefit from the proposed project if completed? 7,867 (Use households served, traffic counts, etc. and explain the basis by which you arrived at your number.) **ORC Reference 164.14(E)(7); 164.06(B)(10)** (Billable Accounts Served)
9. Economic Distress Criteria **ORC Reference 164.06(B)(8)**  
What is the Local Median Household Income as a percentage of the District Median Household Income?  
90.05 %. Please utilize the Economic Distress Scoring Criteria based on ACS 2013-2017 Data provided in Exhibit A.
10. Readiness to Proceed Criteria **ORC Reference 164.06(B)(9); ORC 164.14(E)(5)**  
Please categorize the status of planning and design elements for the project.  
         Plans have not begun yet (0 Points)  
         Preliminary Engineering Complete (1 Point)  
  X   Final Design Complete (2 Points)
11. Base Score Total for Questions 1-10= 88
12. County Subcommittee Priority Points=                       
(25-20-15 Points for each of the SCIP and LTIP Project Categories)
-

13. DISCRETIONARY POINTS (BY DISTRICT COMMITTEE ONLY)

13a. A **District Discretionary Point** may be awarded to projects that demonstrate significant Area-wide, County, or Community Impact. (Include documentation to support the claim of significance) (Maximum of 1 Point at the discretion of the District Executive Committee) \_\_\_\_\_

**ORC Reference 164.14(E)(7)**

13b. A **District Discretionary Point** may be awarded to projects that demonstrate that the entity has maximized local financial resources including assessments. Provide a Fund Status Report and/or the water and sanitary waste utility rate structures are at least 2.5% of area median household income for combined systems and 1.5% of the area median household income for water and sanitary only systems. Please provide rate ordinances for water and sanitary sewer to be considered for discretionary points. (Maximum of 1 Point at the discretion of the District 5 Executive Committee) \_\_\_\_\_ **ORC Reference 164.06(B)(3)**

14. **Grand Total of Points** \_\_\_\_\_

15. Is subdivision's population less than 5,000 Yes No \_\_\_ If yes, continue. You may want to design your project per Small Government Project Evaluation Criteria, released for the current OPWC Round to assist in evaluating your project for potential Small Government Funding. The Small Government Criteria is available on the OPWC website at

<https://www.pwc.ohio.gov/Portals/0/Data/SmallGovernment%20Round%2035%20Methodology.pdf?ver=2019-08-07-071749-143>

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16. **OHIO PUBLIC WORKS COMMISSION SMALL GOVERNMENT PROGRAM GUIDELINES**

All projects that are sponsored by a subdivision with a population of 5,000 or less, and not earning enough points for District Funding from SCIP or LTIP Funds, are then rated using the Small Government Program Rating Criteria for the corresponding funding round. In order to be rated the entity must submit the Small Government Supplement and their required budgets with their application.

**Only infrastructure that is village- or township- owned is eligible for assistance.** The following policies have been adopted by the Small Government Commission:

- District Integrating Committees may submit up to seven (7) applications for consideration by the Commission. All 7 must be ranked, however, only the top five (5) will be scored. The remaining two (2) will be held as contingency projects should an application be withdrawn.
- Grants are limited to \$500,000. Any assistance above that amount must be in the form of a loan.
- Grants for new or expanded infrastructure cannot exceed 50% of the project estimate.
- The Commission may deny funding for water and sewer systems that are deemed to be more cost-effective if regionalized.

• If a water or sewer project is determined to be affordable, the project will be offered a loan rather than a grant. Pay special attention to the **Water & Wastewater Affordability Supplemental and the Small Government Water & Wastewater Affordability Calculation Worksheet**. Both are available on the **Small Government Program Tab** at <https://www.pwc.ohio.gov/Programs/Infrastructure-Programs/Small-Government>

• Should there be more projects that meet the “annual score” than there is funding, the tie breaker is those projects which scored highest under Health & Safety, with the second tie breaker being Condition. If multiple projects have equivalent Health & Safety and Condition scores they are arranged according to the amount of assistance from low to high. Once the funded projects are announced, “contingency projects” may be funded from project under-runs by continuing down the approved project list.

• Supplemental assistance is not provided to projects previously funded by the Commission.

• Applicants have 30 days from receipt of application by OPWC without exception to provide additional documentation to make the application more competitive under the Small Government criteria. Applications will be scored after the 30-day period has expired. The applicants for each District's two (2) contingency projects will have the same 30-day period to submit supplemental information but these applications will not be scored unless necessary to do so. **It is each applicant's responsibility for determining the need for supplemental material. The applicant will not be asked for or notified of missing information unless the Commission has changed the project type and it affects the documentation required. Important information may include, but is not limited to: age of infrastructure, traffic counts or utility users, median income information, user rates ordinances, and the Auditor's Certificate of Estimated Revenues or documentation from the Auditor of State that subdivision is in a state of fiscal emergency.**

If you desire to have your Round 35 project considered for Small Government Funding please download the Small Government Evaluation Criteria applicable to Round 35 by accessing the OPWC Website at

<https://www.pwc.ohio.gov/Portals/0/Data/SmallGovernment%20Round%2035%20Methodology.pdf?ver=2019-08-07-071749-143>

Please complete the Small Government Evaluation Criteria and attach all required supporting documentation and attach it to the District 5 Questionnaire for Round 35.

Date:

9/3/2020

Signature:

M. N. Stahl

Title:

PRESIDENT, BOARD OF COUNTY COMMISSIONERS

Address:

315 MADISON ST., ROOM 103, PORT CLINTON, OH 43452

Phone:

419-734-6700

FAX:

419-734-6898

Email:

MSTANL@CO.OTTAWA.OH.US

District 5  
Capital Improvement Project  
Priority Rating Sheet, Round 35

COUNTY: OTTAWA		PROJECT: ROCKWELL - FILTER MEDIA REPLACEMENT PROJECT		PROJECT NUMBER:													
EST. COST: \$275,000																	
No.	'A' WEIGHT FACTOR	'B' CRITERIA TO BE CONSIDERED	'B' PRIORITY FACTORS					'A' x 'B'	PRIORITY FACTORS						No.		
			0	2	4	6	8		10	0	2	4	6	8		10	
1	1	(REPAIR OR REPLACE) vs. (NEW OR EXPANSION)							10	0%+	20%+	40%+	60%+	80%+	100%+	1	
										Repair or Replacement	Repair or Replacement	Repair or Replacement	Repair or Replacement	Repair or Replacement	Repair or Replacement		
2A	1	EXISTING PHYSICAL CONDITION <small>Please refer to Criteria #2 of the Round 35 Scoring Methodology. Must submit substantiating documentation. (100% New or Existing per P.O. Records).</small>							8	0	2	4	6	8	10	2A	
										Excellent	Good	Fair	Fading	Poor	Failing		
2B	1	AGE							3	0	1	2	3	4	5	2B	
										Road	Wastewater	Bridge/Culvert	Sanitary Sewer, Water Supply, Storm Water, Solid Waste				
										0-4 Yrs	5-8 Yrs	9-12 Yrs	13-16 Yrs	17-20 Yrs	20+ Yrs		
										0-6 Yrs	7-12 Yrs	13-18 Yrs	19-24 Yrs	25-30 Yrs	30+ Yrs		
										0-10 Yrs	11-20 Yrs	21-30 Yrs	31-40 Yrs	41-50 Yrs	50+ Yrs		
3	2	PUBLIC HEALTH AND/OR SAFETY CONCERNS <small>Submittals without supporting documentation will receive 0 points for this question.</small>							16	0	2	4	6	8	10	3	
										No Impact	Minimal	Moderate	Major	Critical	Extremely Critical		
4	2	LOCAL MATCHING FUNDS <small>Percentage of Local Share (Local funds are funds derived from the applicant budget or a loan to be paid back through the applicant budget, assessments, rates or tax revenues) *</small>							20	0	2	4	6	8	10	4	
										0%	10%	20%	30%	40%	50%		
5	1	OTHER FUNDING <small>(Excluding Issue II Funds)</small> <small>(Grants and other revenues not contributed or collected through taxes by the applicant, including Gifts, Contributions, etc. - must submit copy of award or status letter.)</small>							0	0%	10%	20%	30%	40%	50%	5	
6	2	OPWC GRANT AND LOAN FUNDS REQUESTED <small>Please refer to Criteria #9 of the Round 35 Methodology for clarification.</small>							18							6	
		Grant or Loan Only	-5	-8	0	8	9	10								6	
		Grant/Loan Combination	-9	-5	0	8	9	10								6	
When scoring a project that is only grant or only loan, please use the chart labeled "Grant or Loan Only". When scoring a grant/loan combination, score the project for the grant in the first chart, then use the second chart labeled "Grant/Loan Combination" to score the total (grant and loan combined). Use the lower of the two as the score.																	
7	1	JOB CREATION/RETENTION <small>Indicate full time equivalent jobs, include supporting documentation in the form of a commitment letter from business or third party entity.</small>							0	0-6 Jobs	7-14 Jobs	15-24 Jobs	25+ Jobs			7	
8	1	BENEFIT TO EXISTING USERS <small>(Households or traffic counts) Express a number of users for out connections. Traffic Counts within two years with certified documentation, etc.</small>							10	0-99 Users	100-349 Users	350-499 Users	500-749 Users	750-1000 Users	1000+ Users	8	
9	1	ECONOMIC DISTRESS <small>Local MHI as a percentage of the District Median MHI</small>							1	100%+	80%-100%	Less Than 80%				9	
10	1	READINESS TO PROCEED							2	Plans Not Begun Yet	Preliminary Engineering Complete	Final Design Complete				10	
11	SUBTOTAL RANKING POINTS (MAX = 115)												88				
Other I-20: Does this project have a significant impact on productive farmland? YES NO Attach impact statement if yes. Is the Applicant ready to proceed to bids after State Approval within 6 months? YES NO																	
12	COUNTY SUBCOMMITTEE PRIORITY POINTS (25-28/15)																
13A	DISCRETIONARY POINTS (BY DISTRICT ONLY) (MAX=1)												District Discretionary Point may be awarded to projects that demonstrate significant Area-wide, County, or Community Impact. Include documentation to support the claim of significance.				
13B	DISCRETIONARY POINTS (BY DISTRICT ONLY) (MAX=1)												District Discretionary Point may be awarded to projects that demonstrate that the entity has maximized financial resources including assessments and utility rate structure.				
14	GRAND TOTAL RANKING POINTS																

\* Applicants must certify local and other share contributions. Specify, all funding sources to be utilized as local share at the time of application submittal.

**EXHIBIT A Economic Distress Scoring Criteria**

District 5 will use ACS 2013-2017 data below to score criteria #7 of the Scoring Methodology. Information is listed for each county, municipality and township. The Median Household Income (MHI) for each entity was divide by the District 5 Mean MHI to produce an Economic Distress Factor. District 5 then assigned points as follows: for each entity having an Economic Distress Factor of 80% or less a score of 2 is awarded; for entities with an Economic Distress Score of 80.1% to 100.0% 1 point was awarded; for entities in excess of 100.1% a score of 0 was awarded.

County	Municipality	2017 Median Household Income	2010 Population	2017 Economic Distress Factor
District 5 Mean MHI		\$55,893		
Paulding	Cecil village	\$33,750	188	60.38%
Wood	Bowling Green city	\$33,784	30,028	60.46%
Paulding	Haviland village	\$33,906	215	60.66%
Wood	Fostonia city	\$35,125	13,441	62.84%
Sandusky	Fremont city	\$35,295	16,734	63.15%
Williams	Bryan city	\$35,815	8,545	64.08%
Erie	Sandusky city	\$36,117	26,793	64.62%
Defiance	Sherwood village	\$36,260	827	64.88%
Paulding	Broughton village	\$36,667	120	65.60%
Henry	McClure village	\$36,675	725	65.97%
Paulding	Oakwood village	\$37,273	608	66.69%
Williams	Blakeslee village	\$38,125	96	68.21%
Wood	Walbridge village	\$38,613	3,019	69.08%
Wood	West Milgrove village	\$39,000	174	69.78%
Paulding	Grover Hill village	\$39,107	402	69.97%
Williams	West Unity village	\$39,250	1,671	70.22%
Ottawa	Rocky Ridge village	\$39,375	417	70.45%
Ottawa	Portage township	\$40,000	1,291	71.57%
Defiance	Ney village	\$41,111	354	73.55%
Wood	Hoytville village	\$41,471	303	74.20%
Paulding	Paulding village	\$41,490	3,605	74.23%
Wood	RisingSun village	\$41,771	606	74.73%
Paulding	Antwerp village	\$41,827	1,736	74.83%
Paulding	Lally township (Remainder of)	\$42,188	615	75.48%
Ottawa	Clay Center village	\$42,321	276	75.72%
Paulding	Payne village	\$42,339	1,194	75.76%
Paulding	Scott village	\$42,500	286	76.04%
Ottawa	Bay township	\$42,959	1,458	76.88%
Ottawa	Oak Harbor village	\$43,456	2,769	77.75%
Ottawa	Port Clinton city	\$43,554	6,056	77.92%
Williams	Pioneer village	\$43,667	1,380	78.13%
Williams	Monipelier village	\$43,955	4,072	78.64%
Fullon	Fayette village	\$44,120	1,283	78.94%
Williams	Edon village	\$44,338	834	79.33%



2 Points



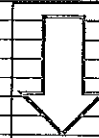
Williams	Northwest township	\$44,732	1,236	80.03%	
Wood	Liberty township (Remainder of)	\$44,846	1,633	80.23%	
Fullon	Metamora village	\$45,000	827	80.51%	
Paulding	Latty village	\$45,000	193	80.51%	
Wood	Wayne village	\$45,000	887	80.51%	
Ottawa	Erie township	\$45,500	1,221	81.41%	
Williams	St. Joseph township (Remainder of)	\$45,833	815	82.00%	
Williams	Madison township (Remainder of)	\$46,079	976	82.44%	
Paulding	Melrosa village	\$46,250	275	82.75%	
Wood	Bradner village	\$46,429	985	83.07%	
Henry	Napoleon city	\$46,786	8,749	83.71%	
Wood	Cygnat village	\$46,917	597	83.94%	
Henry	New Bavaria village	\$47,500	99	84.98%	
Paulding	Paulding township (Remainder of)	\$47,531	1,046	85.04%	
Defiance	Defiance city	\$47,716	16,494	85.37%	
Defiance	Hicksvite village	\$47,841	3,581	85.59%	
Fullon	Wauseon city	\$47,885	7,332	85.67%	
Henry	Deshler village	\$48,015	1,799	85.91%	
Sandusky	Green Springs village	\$48,173	1,368	86.18%	
Ottawa	Salem township (Remainder of)	\$48,227	2,612	86.28%	
Henry	Hamler village	\$48,452	576	86.69%	
Sandusky	Riley township	\$48,520	1,226	86.81%	
Williams	Stryker village	\$48,750	1,335	87.22%	
Williams	Pulaski township	\$49,199	2,357	88.02%	
Fullon	Lyons village	\$49,250	562	88.11%	
Williams	Edgerton village	\$49,375	2,012	88.34%	
Sandusky	Rice township	\$49,461	1,370	88.49%	
Wood	Weston village	\$49,702	1,590	88.92%	
Williams	Mill Creek township	\$49,760	802	89.03%	
Williams	Brady township (Remainder of)	\$49,919	931	89.31%	
Ottawa	Danbury township (Remainder of)	\$50,087	4,264	89.58%	
Sandusky	Clyde city	\$50,240	6,325	89.89%	
Wood	Troy township (Remainder of)	\$50,313	2,858	90.02%	
Fullon	Dover township	\$50,400	1,578	90.17%	1 Point
Sandusky	Gibsonburg village	\$50,603	2,581	90.54%	
Paulding	Auglatze township	\$51,202	1,454	91.61%	
Fullon	Chesterfield township	\$51,563	1,012	92.25%	
Wood	Milton Center village	\$51,667	144	92.44%	
Henry	Holgate village	\$51,700	1,109	92.60%	
Erie	Berlin Heights village	\$51,719	714	92.53%	
Erie	Bellvue city	\$51,875	8,202	92.81%	
Sandusky	Bellvue city	\$51,875	8,202	92.81%	
Williams	Superior township	\$52,022	1,393	93.07%	
Henry	Bartlow township (Remainder of)	\$52,159	568	93.32%	
Fullon	Franklin township	\$52,321	743	93.61%	
Wood	Custar village	\$52,500	179	93.93%	
Wood	Portage village	\$53,068	438	94.95%	
Fullon	Archbold village	\$53,106	4,346	95.01%	
Sandusky	Lindsey village	\$53,523	446	95.76%	
Paulding	Brown township (Remainder of)	\$53,548	1,249	95.81%	
Erie	Huron city	\$53,555	7,149	95.82%	
Henry	Florida village	\$53,750	232	96.17%	
Wood	Bairdstown village	\$53,750	130	96.17%	
Williams	Bridgewater township	\$53,859	1,474	96.36%	
Ottawa	Genoa village	\$54,321	2,336	97.19%	
Sandusky	Helena village	\$54,375	224	97.28%	
Wood	North Baltimore village	\$54,435	3,432	97.39%	
Henry	Pleasant township (Remainder of)	\$54,520	871	97.54%	
Wood	Milton township (Remainder of)	\$54,556	656	97.61%	
Paulding	Emerald township (Remainder of)	\$54,655	789	97.79%	
Erie	Vermilion city	\$54,730	10,694	97.92%	
Erie	Bay View village	\$55,357	632	99.04%	
Fullon	Gorham township (Remainder of)	\$55,366	977	99.06%	
Williams	Jefferson township (Remainder of)	\$55,384	1,879	99.09%	
Sandusky	Green Creek township	\$55,587	3,646	99.45%	
Sandusky	Woodville village	\$55,652	2,135	99.57%	
Sandusky	Woodville township (Remainder of)	\$55,690	1,256	99.64%	
Ottawa	Elmore village	\$55,804	1,410	99.84%	
Sandusky	Elmore village	\$55,804	1,410	99.84%	
Wood	Bloomdale village	\$55,893	678	100.00%	



1 Point



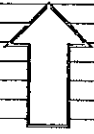
Ottawa	Put-In-Bay township (Remainder of)	\$56,000	495	100.19%	
Sandusky	Sandusky township	\$56,317	3,619	100.76%	
Erie	Vermilion township	\$56,699	4,945	101.44%	
Wood	Montgomery township (Remainder of)	\$56,845	1,752	101.70%	
Wood	Milbury village	\$56,932	1,209	101.86%	
Wood	Grand Rapids village	\$57,014	965	102.01%	
Wood	Perrysburg township	\$57,185	12,512	102.28%	
Henry	Liberty Center village	\$57,303	1,180	102.52%	
Fulton	Swanton village	\$57,446	3,699	102.78%	
Sandusky	York township	\$57,500	2,532	102.88%	
Williams	County	\$57,551	35,801	102.97%	
Defiance	Highland township	\$57,841	2,372	103.49%	
Paulding	Jackson township (Remainder of)	\$58,055	853	103.87%	
Paulding	Crane township (Remainder of)	\$58,081	1,232	103.88%	
Williams	Center township	\$58,504	2,874	104.67%	
Erie	Margaretta township (Remainder of)	\$58,792	4,497	105.19%	
Henry	Liberty township (Remainder of)	\$58,954	1,317	105.49%	
Wood	Northwood city	\$59,009	5,265	105.57%	
Henry	Monroe township (Remainder of)	\$59,318	877	106.13%	
Defiance	Delaware township (Remainder of)	\$59,561	1,307	106.56%	
Sandusky	Scott township	\$59,643	1,437	106.71%	
Sandusky	County	\$59,763	58,269	106.91%	
Defiance	Mark township	\$59,770	908	106.94%	
Henry	Harrison township (Remainder of)	\$59,893	1,025	107.16%	
Defiance	Tiffin township	\$60,192	1,612	107.69%	
Sandusky	Washington township (Remainder of)	\$60,680	1,795	108.56%	
Fulton	Della village	\$60,927	3,103	109.01%	
Erie	Perkins township	\$61,293	12,202	109.66%	
Wood	Rosford city	\$61,682	6,293	110.36%	
Wood	Luckey village	\$61,705	1,012	110.40%	
Henry	Mahtota village	\$61,875	285	110.70%	
Defiance	Defiance township (Remainder of)	\$62,404	1,792	111.65%	
Fulton	Swan Creek township (Remainder of)	\$62,576	6,013	111.96%	
Henry	Damascus township (Remainder of)	\$62,614	1,076	112.02%	
Henry	Freedom township	\$62,750	946	112.27%	
Wood	Pemberville village	\$62,885	1,371	112.51%	
Sandusky	Balville township	\$62,904	5,995	112.54%	
Erie	Kelleys Island village	\$63,000	312	112.72%	
Paulding	County	\$63,122	18,863	112.93%	
Wood	Jerry City village	\$63,158	427	113.00%	
Williams	Springfield township (Remainder of)	\$63,548	1,812	113.70%	
Fulton	Clinton township (Remainder of)	\$63,622	2,222	113.83%	
Wood	Bloom township (Remainder of)	\$64,017	1,003	114.53%	
Wood	Henry township (Remainder of)	\$64,074	743	114.64%	
Wood	Jackson township (Remainder of)	\$64,219	489	114.90%	
Erie	County	\$64,384	74,039	115.19%	
Paulding	Blue Creek township (Remainder of)	\$64,464	447	115.34%	
Defiance	County	\$64,669	37,694	115.70%	
Williams	Florence township (Remainder of)	\$64,821	1,096	115.97%	
Defiance	Farmer township	\$64,888	663	116.09%	
Paulding	Benlon township (Remainder of)	\$65,230	671	116.70%	
Defiance	Richland township (Remainder of)	\$65,245	1,719	116.73%	
Sandusky	Townsend township	\$65,306	1,620	116.84%	
Ottawa	Marblehead village	\$65,417	903	117.04%	
Defiance	Washington township (Remainder of)	\$65,526	1,263	117.24%	
Williams	Holiday City village	\$65,625	52	117.41%	
Ottawa	Carroll township	\$65,769	2,135	117.67%	
Erie	Milan village	\$65,833	1,367	117.78%	
Erie	Castalia village	\$66,146	852	118.34%	
Wood	Tontogany village	\$66,786	367	119.49%	
Defiance	Noble township (Remainder of)	\$66,885	2,419	119.67%	
Fulton	Pike township	\$67,115	1,854	120.08%	
Paulding	Carroll township (Remainder of)	\$67,151	1,244	120.14%	
Erie	Florence township	\$67,300	2,448	120.41%	
Fulton	County	\$67,327	41,824	120.46%	
Fulton	Royalton township (Remainder of)	\$67,929	953	121.53%	
Henry	County	\$68,966	27,027	123.39%	
Wood	Lake township (Remainder of)	\$69,148	6,753	123.72%	
Ottawa	County	\$69,165	39,946	123.73%	
Ottawa	Harris township (Remainder of)	\$69,186	1,608	123.78%	
Ottawa	Clay township (Remainder of)	\$69,760	2,722	124.79%	
Defiance	Hicksville township (Remainder of)	\$69,830	1,398	124.94%	
Ottawa	Catawba Island township	\$70,000	3,599	125.24%	
Sandusky	Burgoon village	\$70,000	172	125.24%	
Erie	Grolon township	\$70,959	1,427	126.86%	
Henry	Ridgeville township	\$71,615	1,091	128.13%	
Wood	Weston township (Remainder of)	\$71,739	746	128.35%	
Henry	Marion township (Remainder of)	\$72,708	721	130.08%	
Wood	Grand Rapids township (Remainder of)	\$72,717	642	130.10%	
Henry	Washington township (Remainder of)	\$72,849	1,794	130.34%	
Sandusky	Jackson township (Remainder of)	\$73,081	1,303	130.72%	
Fulton	German township (Remainder of)	\$73,214	2,097	130.99%	
Fulton	Amboy township (Remainder of)	\$73,816	1,219	132.07%	
Wood	Webster township	\$74,063	1,283	132.51%	
Fulton	Fulton township (Remainder of)	\$74,073	1,519	132.53%	
Wood	Freedom township (Remainder of)	\$74,477	1,356	133.25%	
Sandusky	Madison township (Remainder of)	\$75,000	1,273	134.18%	
Wood	County	\$76,876	122,541	137.54%	
Fulton	York township (Remainder of)	\$77,742	1,678	139.09%	
Ottawa	Put-In-Bay village	\$78,250	138	140.00%	
Wood	Plain township	\$78,333	1,663	140.15%	
Paulding	Harrison township (Remainder of)	\$78,340	640	140.16%	
Ottawa	Benton township (Remainder of)	\$79,140	2,224	141.59%	
Erie	Huron township (Remainder of)	\$79,225	3,548	141.74%	
Henry	Flatrock township (Remainder of)	\$80,236	962	143.55%	
Erie	Oxford township	\$80,375	1,201	143.80%	
Paulding	Washington township	\$80,461	719	143.96%	
Erie	Berlin township (Remainder of)	\$80,497	3,009	144.02%	



0 Points



Ottawa	Allen township (Remainder of)	\$80,752	3,504	144.48%	
Defiance	Adams township	\$81,579	947	145.96%	
Wood	Haskins village	\$81,705	1,188	146.18%	
Defiance	Milford township	\$83,750	1,081	149.84%	
Wood	Middleton township (Remainder of)	\$84,802	3,266	151.72%	
Erle	Milan township (Remainder of)	\$85,062	2,602	152.19%	
Wood	Perrysburg city	\$87,947	20,623	157.35%	
Wood	Perry township (Remainder of)	\$88,081	1,431	157.59%	
Henry	Richfield township	\$92,500	682	165.49%	
Wood	Washington township (Remainder of)	\$96,023	1,474	171.80%	
Wood	Portage township (Remainder of)	\$96,456	1,083	172.57%	
Wood	Center township	\$97,337	1,206	174.15%	
Henry	Napoleon township (Remainder of)	\$106,710	1,551	190.92%	



**OTTAWA COUNTY**  
**SANITARY ENGINEERING DEPARTMENT**

315 Madison Street, Room 105  
Ottawa County Courthouse  
Port Clinton, Ohio 43452

James K. Frey, P.E., P.S.

www.co.ottawa.oh.us/index.php/sanitary-engineer  
Telephone: (419) 734-6725  
Fax: (419) 734-6858

**Ottawa County Regional Water Treatment Plant**  
**Filter Media Replacement Project**  
**Project Narrative**

---

The Ottawa County Regional Water Treatment Plant began operations on May 6, 1999. The treatment plant serves the public water supply needs of the City of Port Clinton, the Village of Oak Harbor and portions of 7 townships including Bay, Catawba Island, Danbury, Erie, Harris, Portage & Salem. The original water treatment plant was a conventionally designed 6 Million Gallon Per day (MGD) facility that included pretreatment, coagulation, flocculation, sedimentation, filtration and disinfection. The treatment plant was expanded in 2004 to 9 MGD in order to comply with Ohio EPA capacity and treatment requirements.

The filter media that was installed as part of the original 1999 water treatment plant project has a 20-year maximum useful life. The proposed project will remove and replace the filter media in the original four filter cells that were constructed in 1999. The filter media in these four cells is in poor condition and has reached the end of its useful life and must be replaced in order for the treatment plant to continue to comply with Ohio Environmental Protection Agency Safe Drinking Water Regulations and Asset Management Requirements. Filter media for gravity filters in a surface water treatment plant is typically expected to last between 12 and 20 years depending on water quality and the proper operation and maintenance of the water treatment plant. From a performance standpoint, Ottawa County's water treatment plant operators have done an excellent job maintaining the proper operation of these filters. Proper backwash intervals and flow rates have been consistently maintained in an effort to maximize the useful life of the filter media to this point.

The proposed project is a 100% replacement project. In addition to replacing the filter media, the county will be inspecting and replacing any existing filter nozzles that may be damaged or plugged. The treatment plant has had ongoing issues in the past with filter nozzles being broken or plugged. We anticipate that a percentage of the nozzles will need to be replaced. By completing the proposed project at this time, water treatment standards will remain in compliance, backwash times will be reduced and operating requirements will be adhered to. The filter media is presently considered to be in very poor condition and is approaching a critical situation due to its age and reduced run times. As the filter media ages, it becomes more rounded and the media particles break into smaller pieces which causes treatment issues with water breakthrough during operation allowing unwanted particles to make their way through channels in the media. This increases the filtered water turbidity

which then leads to shorter filter times and a potential violation of Ohio EPA treatment requirements. It should be noted that the filter media will have been in operation for over 22 years when this project is started and that replacement of the media is critical to maintaining water quality treatment standards. Specific components of the proposed project consists of the replacement of the filter media in the original four (4) filter cells, a contingent quantity of 500 filter nozzles and all of the labor and materials to remove the existing media and install the new media including disinfection of the new media.

The total estimated cost of these filter improvements is \$275,000. The county is requesting a 100% loan for the project. Once completed, the county certifies that the new media will continue to provide service for an additional 20 years.

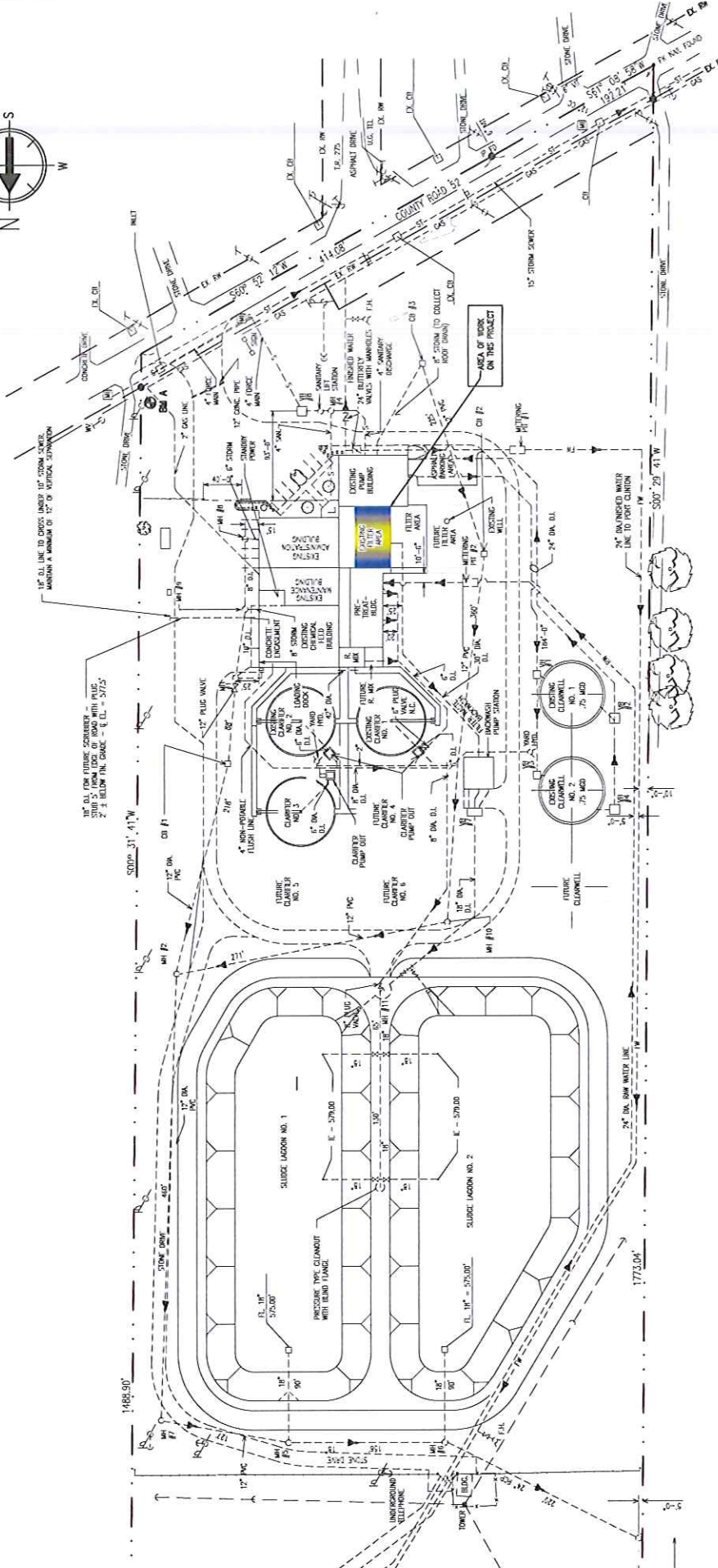
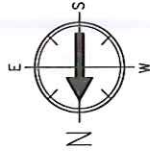
Date: 8-28-2020

**Question #9 Economic Distress Scoring Criteria**

District 5, Median Household Income: \$ 55,893.00

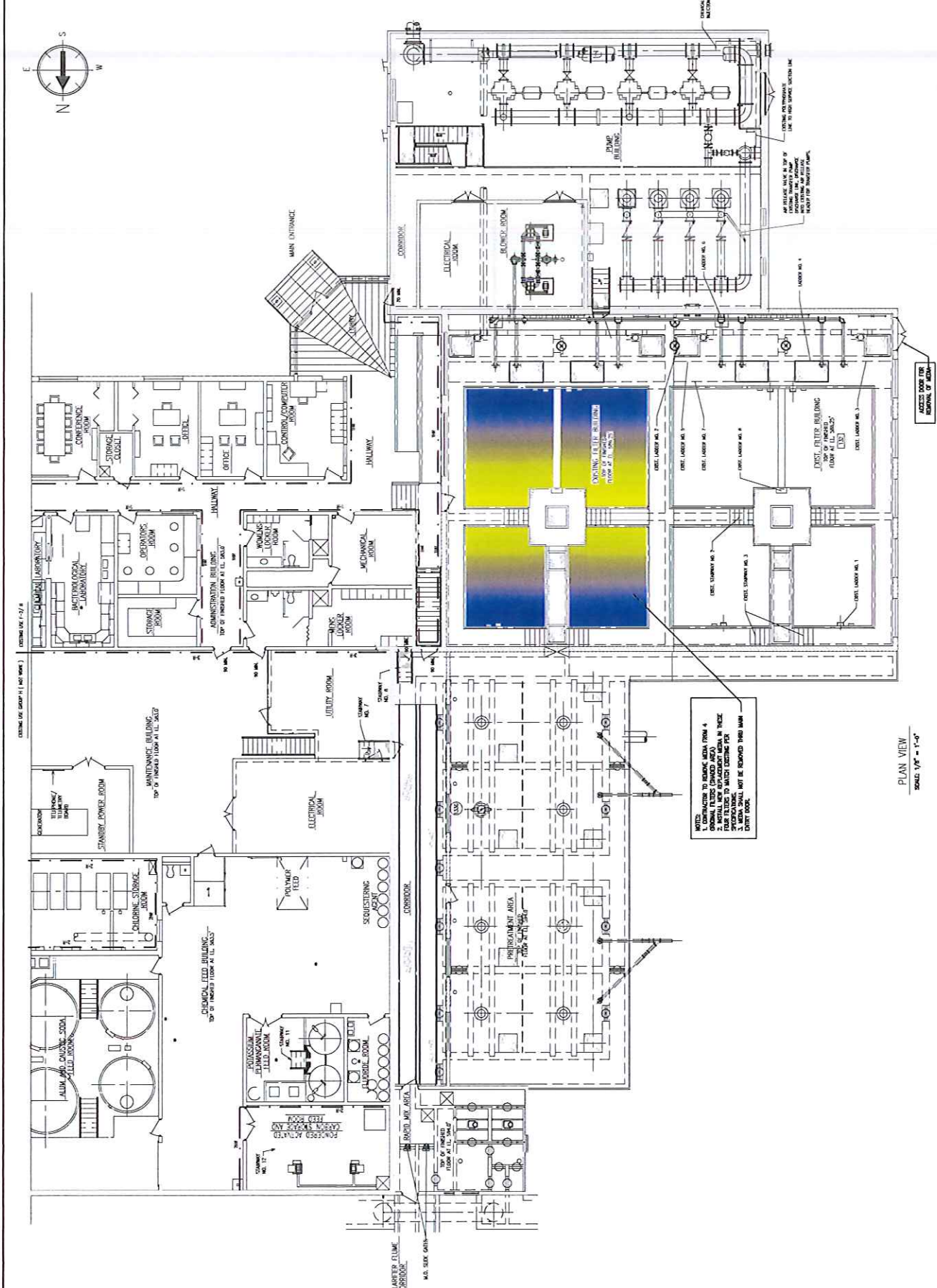
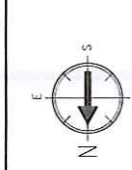
Jurisdictions served by the Ottawa County Regional Water System	MHI
Portage Township	\$ 40,000.00
Bay Township	\$ 42,969.00
Village of Oak Harbor	\$ 43,456.00
<u>City of Port Clinton</u>	\$ 43,554.00
Erie Township	\$ 45,500.00
Salem Township	\$ 48,227.00
<u>Danbury Township</u>	\$ 50,067.00
Harris Township	\$ 69,186.00
Catawba Island Township	\$ 70,000.00
	\$ 452,959.00 divided by
	9 Political jurisdictions served by the Ottawa County Regional Water System
	<b>\$ 50,329.00 MHI for the Ottawa County Regional Water service area</b>
	<b>90.05% Local MHI as a Percentage of District MHI</b>





**LEGEND:**  
 IM A - ELEVATION 562.00 - PK. NAL. 311 IN POWER POLE. SE  
 CONDUIT IN PROPERTY.



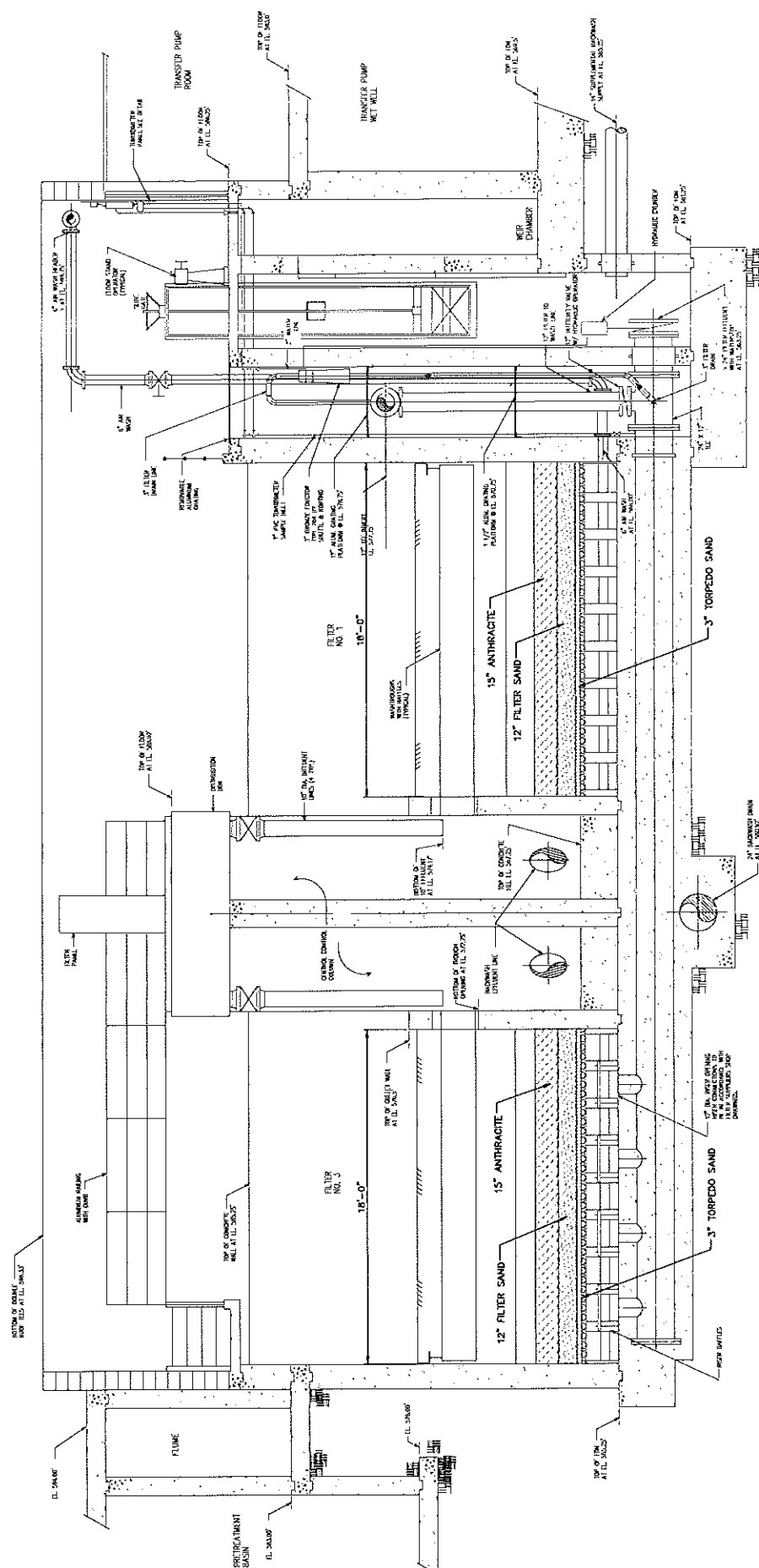


NOTES:  
 1. CONTRACTOR TO REMOVE AREAS FROM 4 TO 10. THESE AREAS ARE TO BE REMOVED IN THOSE FOUR PHASES TO MATCH EXISTING PERMITS.  
 2. AREAS SHALL NOT BE REMOVED UNTIL MAIN ENTRY DOORS ARE CLOSED.

PLAN VIEW  
 SCALE: 1/8" = 1'-0"





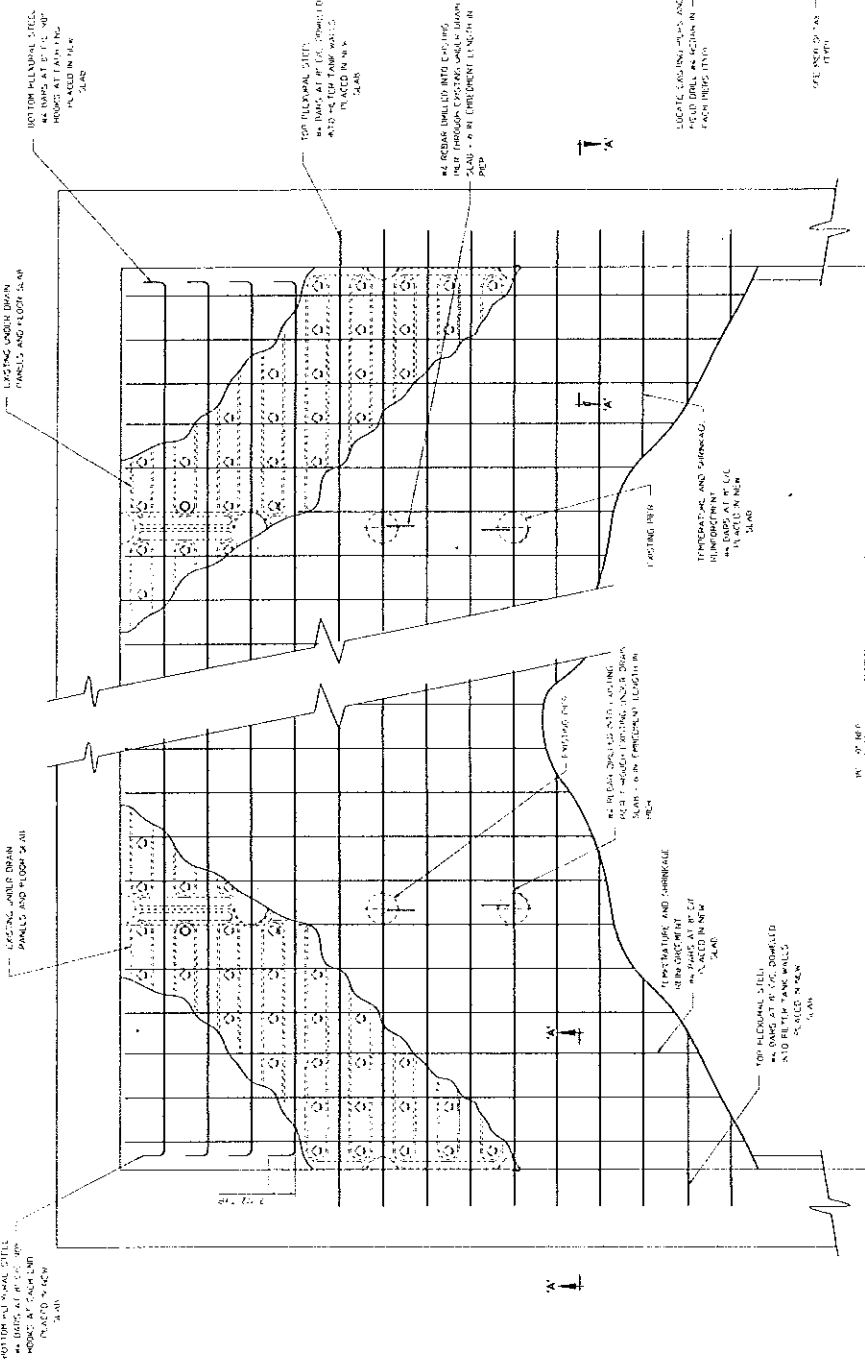


**SECTION 1**  
 SCALE: 3/8" = 1'-0"  
**PM-102**

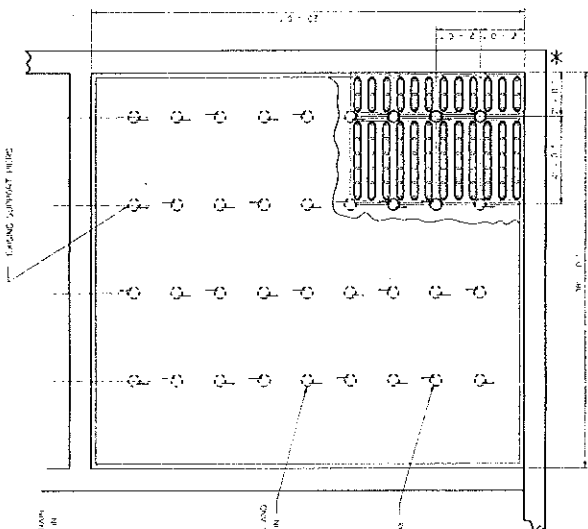
THIS DRAWING IS THE PROPERTY OF POGMEYER DESIGN GROUP, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY UNAUTHORIZED USE OF THIS DRAWING IS PROHIBITED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



**NOTE :**  
 1. WORK WITH GENERAL ARRANGEMENT  
 GENERAL CONTRACTOR



ILLUSTRATIVE PARTIAL PLAN VIEW

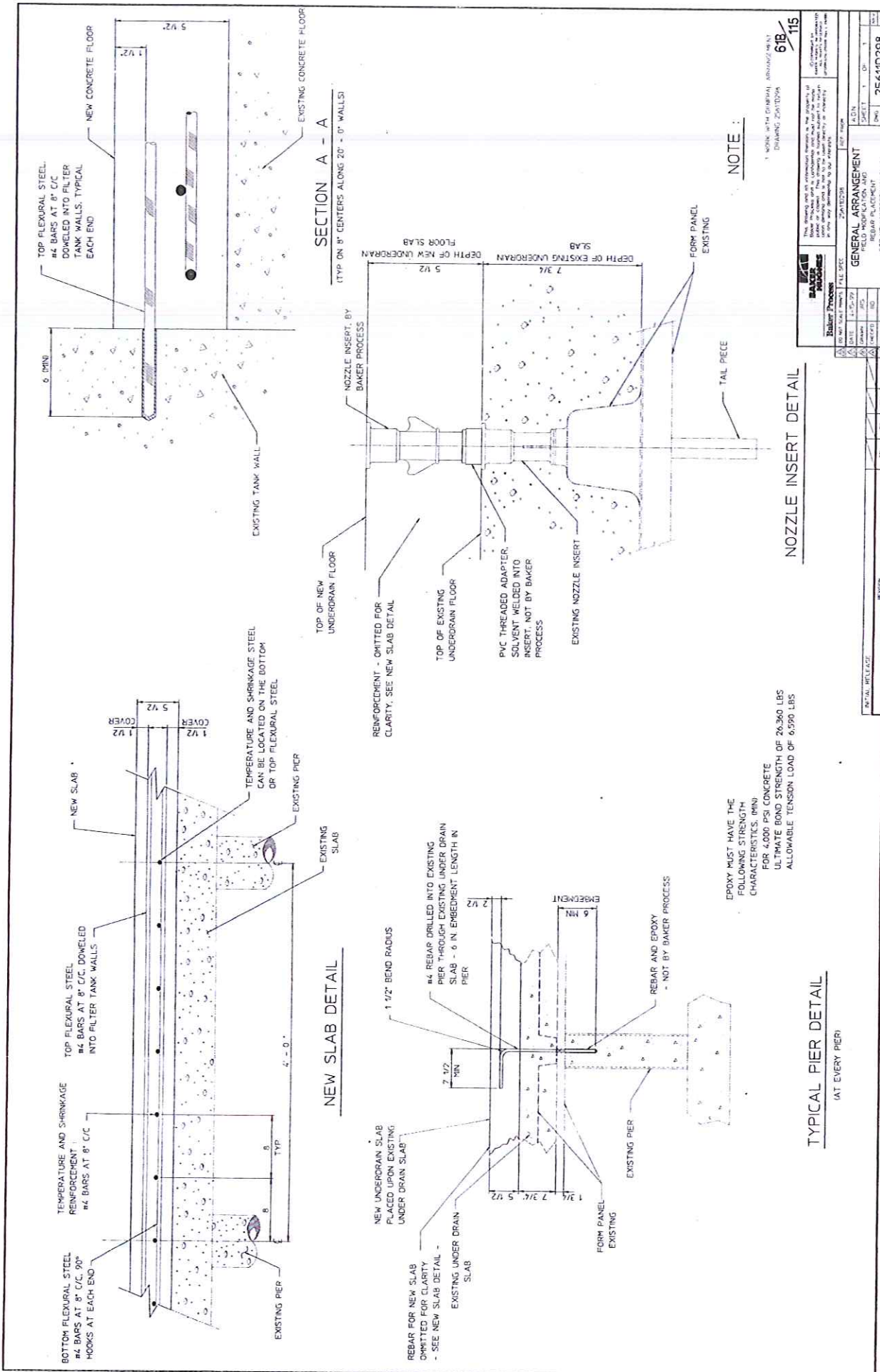


61A / 115

**FILTER CELL CONFIGURATION**  
 \* CONTINUED TO IN 61B, SEE ACTUAL SHOP DRAWING

		25/10/2022	
<b>Robot Process</b>		<b>GENERAL ARRANGEMENT</b>	
DATE: 25/10/2022	SHEET: 115	NO. OF SHEETS: 115	NO. OF SHEETS: 115
DRAWN BY:	CHECKED BY:	DESIGNED BY:	APPROVED BY:
PROJECT NO:	PROJECT NAME:	PROJECT LOCATION:	PROJECT CLIENT:
25611D297	25611D297	25611D297	25611D297

25611D297	25611D297	25611D297	25611D297
25611D297	25611D297	25611D297	25611D297
25611D297	25611D297	25611D297	25611D297
25611D297	25611D297	25611D297	25611D297



TEMPERATURE AND SHRINKAGE REINFORCEMENT #4 BARS AT 8" C/C

TEMPERATURE AND SHRINKAGE STEEL CAN BE LOCATED ON THE BOTTOM OR TOP FLEXURAL STEEL

TOP FLEXURAL STEEL #4 BARS AT 8" C/C DOWELED INTO FILTER TANK WALLS. TYPICAL EACH END

NEW SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF NEW UNDERDRAIN FLOOR

REINFORCEMENT - OMITTED FOR CLARITY, SEE NEW SLAB DETAIL

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF EXISTING UNDERDRAIN FLOOR

PVC THREADED ADAPTER, SOLVENT WELDED INTO INSERT, NOT BY BAKER PROCESS

EXISTING NOZZLE INSERT

FORM PANEL EXISTING

TAIL PIECE

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

TEMPERATURE AND SHRINKAGE REINFORCEMENT #4 BARS AT 8" C/C

TEMPERATURE AND SHRINKAGE STEEL CAN BE LOCATED ON THE BOTTOM OR TOP FLEXURAL STEEL

NEW SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF NEW UNDERDRAIN FLOOR

REINFORCEMENT - OMITTED FOR CLARITY, SEE NEW SLAB DETAIL

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF EXISTING UNDERDRAIN FLOOR

PVC THREADED ADAPTER, SOLVENT WELDED INTO INSERT, NOT BY BAKER PROCESS

EXISTING NOZZLE INSERT

FORM PANEL EXISTING

TAIL PIECE

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

TEMPERATURE AND SHRINKAGE REINFORCEMENT #4 BARS AT 8" C/C

TEMPERATURE AND SHRINKAGE STEEL CAN BE LOCATED ON THE BOTTOM OR TOP FLEXURAL STEEL

NEW SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF NEW UNDERDRAIN FLOOR

REINFORCEMENT - OMITTED FOR CLARITY, SEE NEW SLAB DETAIL

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF EXISTING UNDERDRAIN FLOOR

PVC THREADED ADAPTER, SOLVENT WELDED INTO INSERT, NOT BY BAKER PROCESS

EXISTING NOZZLE INSERT

FORM PANEL EXISTING

TAIL PIECE

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

TEMPERATURE AND SHRINKAGE REINFORCEMENT #4 BARS AT 8" C/C

TEMPERATURE AND SHRINKAGE STEEL CAN BE LOCATED ON THE BOTTOM OR TOP FLEXURAL STEEL

NEW SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF NEW UNDERDRAIN FLOOR

REINFORCEMENT - OMITTED FOR CLARITY, SEE NEW SLAB DETAIL

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

EXISTING TANK WALL

EXISTING CONCRETE FLOOR

NOZZLE INSERT BY BAKER PROCESS

TOP OF EXISTING UNDERDRAIN FLOOR

PVC THREADED ADAPTER, SOLVENT WELDED INTO INSERT, NOT BY BAKER PROCESS

EXISTING NOZZLE INSERT

FORM PANEL EXISTING

TAIL PIECE

DEPTH OF EXISTING UNDERDRAIN FLOOR SLAB

SECTION A - A  
(TYP ON 8" CENTERS ALONG 20" - 0" WALLS)

NEW SLAB DETAIL

NOZZLE INSERT DETAIL

TYPICAL PIER DETAIL  
(AT EVERY PIER)

NOTE :

EPOXY MUST HAVE THE FOLLOWING STRENGTH CHARACTERISTICS (MIN)  
FOR 4,000 PSI CONCRETE  
ULTIMATE BOND STRENGTH OF 26,360 LBS  
ALLOWABLE TENSION LOAD OF 6,390 LBS

WORK WITH ORIGINAL ARCHITECT ONLY  
DRAWING DATE: 6/18/15

Rebar Process		FIELD SPEC		GENERAL ARRANGEMENT	
NO	DATE	BY	CHKD	NO	DATE
1	1-15-15	JIS	JIS	1	1-15-15
2		JIS	JIS	2	
3		JIS	JIS	3	
4		JIS	JIS	4	
5		JIS	JIS	5	
6		JIS	JIS	6	
7		JIS	JIS	7	
8		JIS	JIS	8	
9		JIS	JIS	9	
10		JIS	JIS	10	

GENERAL ARRANGEMENT		FIELD SPEC	
NO	DATE	BY	CHKD
1	1-15-15	JIS	JIS
2		JIS	JIS
3		JIS	JIS
4		JIS	JIS
5		JIS	JIS
6		JIS	JIS
7		JIS	JIS
8		JIS	JIS
9		JIS	JIS
10		JIS	JIS

GENERAL ARRANGEMENT		FIELD SPEC	
NO	DATE	BY	CHKD
1	1-15-15	JIS	JIS
2		JIS	JIS
3		JIS	JIS
4		JIS	JIS
5		JIS	JIS
6		JIS	JIS
7		JIS	JIS
8		JIS	JIS
9		JIS	JIS
10		JIS	JIS

SECTION 13220

FILTER MEDIA REPLACEMENT

PART 1 GENERAL

1.1 WORK INCLUDED

- A. This item shall include the provisions for filter media removal and installation of new filter media as shown on the drawings and as herein specified. Work shall also include a site visit by EIMCO representative after filter media is removed from each filter cell to inspect nozzles in floor and condition of filter floor and underdrain.

1.2 SUBMITTALS

- A. Contractor to provide detailed shop drawings of all manufactured equipment and filter media containing details required to rebed the filters and pertaining to any equipment installation.

1.3 SYSTEM DESCRIPTION

- A. The existing filter media shall be removed from service and replaced in the four cell gravity cluster filters, each cell being 18' x 20'. Each of the four filter cells shall have the media removed and replaced to match the current media design. The media depth, type and design parameters shall match the existing filters. Work will be completed on two cells at a time. A maximum of two filter cells can be removed from service at a time. The timing of this work must be coordinated with the WTP operations staff.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. All filter media shall meeting Ohio EPA requirements and shall comply with NSF 61.

2.2 FILTER UNDERDRAIN SYSTEM

- A. The filter underdrain system consists of a false bottom in the filter cell supported above the true bottom of the

filter. The system was constructed using high impact, corrosion-resistant ABS plastic underdrain forms, ABS plastic media-retaining strainers with air wash tail pipes, cylindrical PVC pier forms and cast-in-place reinforced concrete. In addition, ABS plastic concrete inserts were provided which were field attached to the underdrain forms.

- B. Any necessary replacement media retaining nozzles shall be constructed of high strength corrosion resistant ABS plastic. The nozzles shall be of a design to uniformly discharge backwash water horizontally into the filter media. The slot dimensions shall be approximately 0.014" and shall be designed to present sharp edges to the retained media and to get progressively larger toward the inside of the assembly to prevent lodging of media in the slot. These nozzles shall match the existing nozzles. The nozzle shall be equipped with a plastic tail pipe having properly sized orifices located at the bottom of the concrete underdrain slab to provide uniform distribution of air scour.

### 2.3 FILTER MEDIA

- A. Filter media shall consist of sands and anthracite. Filter media and media installation shall be in accordance with AWWA B100. Acid solubility tests are required. The materials shall be obtained from sources regularly engaged in producing and furnishing the specified materials. The Engineer and the Ohio Environmental Protection Agency shall be provided with sample and the samples shall be approved prior to shipment. The Contractor shall provide affidavit with the samples stating the materials furnished comply with the applicable requirements of AWWA B100 and these specifications.
- B. All filter media shall be installed in accordance with instructions from the manufacturer, under the direct supervision of a technician provided by the manufacturer, and in the presence of the Owner or the Engineer. Each successive layer shall be placed so as not to disturb the surface of the layer beneath.
- C. Workmen shall not stand or walk directly upon the media, but on boards which will sustain the weight of the workmen without displacing the filtering materials. For each material, an additional amount shall be initially provided and placed as required so that after washing and scraping

the surface will be as near as possible to the finished elevation. Upon completion, the depth of the materials shall be the depth specified. The manufacturer shall furnish a Certificate of Installation stating that the filtering materials were installed, backwashed, and skimmed under the direct supervision of a trained and qualified technician and in accordance with AWWA B100 and as specified herein.

- D. The Owner will provide at no cost to the Contractor all water required for washing and disinfecting the filters the first time, with the work to be performed at such times as approved by the Owner. Any additional water required for retesting shall be paid for by the contractor.
- E. Filter Sand - Filter sand shall be provided to a finished depth of 15 inches. Filter sand shall consist of hard, durable grains of siliceous material less than 2.4 mm in greatest dimension, and shall be visually free from dirt, loam, clay, and micaceous and organic matter. The particle size distribution shall be determined using standard sieves calibrated in accordance with ASTM Method E11; grain size shall be defined in terms of the smallest sieve opening through which it passes; and percent sizes of sand shall be determined from a plot of the sieve data on probability paper, showing the percent of the material passing the sieve versus the sieve size opening.
- F. Filter sand shall have the following characteristics:

<u>Layer</u>	<u>Thickness</u>	<u>Effective Size</u>	<u>Uniformity Coefficient</u>
Bottom	3 inches	0.8 to 1.2 mm	less than 1.7
Top	12 inches	0.45 to 0.55 mm	less than 1.65

After all filter sand is placed and before any anthracite is placed, the filter shall be washed and scraped and placed at the finished elevation.

- G. Filter Anthracite - Filter anthracite shall be provided to a finished depth of 15 inches with at least one additional inch to be provided and scraped off after washing. Filter anthracite shall consist of hard, durable coal particles of various size, and shall be visually free of clay, shale, and extraneous dirt. The hardness shall not be less than 2.7 on the Moh scale. The specific gravity shall not be less than 1.4. Particle (grain) size and

percent sizes shall be determined as specified for filter sand. Filter anthracite shall have an effective size of 0.85 to 1.2 mm, a uniformity coefficient less than 1.70 and shall be "Anthrafilt" as supplied by Palmer Filter Equipment Company, Erie, Pennsylvania, "Philterkol" as supplied by Reading Anthracite Coal Company, Pottsville, Pennsylvania, S & S Filter, LLC, Austintown, Ohio, or approved equal.

After placement of the anthracite, the filter shall be washed at least three successive times with the surface to be scraped after each washing. After washing, the surface shall be placed at the finished elevation, with additional material added if necessary to bring the surface to the finished elevation.

### PART 3 EXECUTION

#### 3.1 INSTALLATION

- A. The contractor must schedule and coordinate the media removal with the WTP staff a minimum of one week prior to anticipated start date. Communication and cooperation with the WTP staff is critical. The plant must continue to produce water at all times and that must not be interrupted during this project. The summer season from July 1 through October 31 is the critical time for HAB season and all filter media work performed during this period shall only be done with the prior approval of the Owner.
- B. The contractor shall take great care in removing all filter media to protect the existing filter nozzles and other equipment. Any damage caused by the contractor shall be repaired or replaced at the cost of the contractor.
- C. Workmen shall not stand or walk directly upon the media or nozzles, but on boards which will sustain the weight of the workmen without displacing the filtering materials or damaging the nozzles.
- D. The contractor shall provide at no additional cost to the Owner field visits from the filter manufacturer to arrange for an inspection of the filter nozzles and all other filter equipment prior to installing the new filter media. These site visits shall be arranged by contacting Waterworks



3.2 DISINFECTION

- A. After all other work is completed and before a filter is placed in service, the filter and associated plenum shall be disinfected by chlorination. This can be accomplished by injecting sufficient chlorine into the wash water to produce a chlorine concentration of at least 25 mg/l throughout the filter and letting the chlorinated water stand for at least 12 hours. After the 12 hour period, if the chlorine residual is less than 5 mg/l, the filter shall be backwashed and the procedure repeated.
- B. At such time as the chlorine residual is 5 mg/l or greater, the filter shall be backwashed, filled with potable water, a sample taken off the filter effluent and a total coliform test performed. If the total coliform count is one or less, the filter is acceptable. If the total coliform count is greater than one, the entire disinfection procedure shall be repeated, until two consecutive samples are satisfactory. Consecutive samples shall mean that a sample is taken and the test results obtained before the next sample is taken.
- C. Disinfection shall continue at the expense of the Contractor until acceptable results are obtained.
- D. The Owner will perform all tests for chlorine residual and total coliform. Other means of disinfection may be used when approved by the Owner, the Engineer, and the Ohio Environmental Protection Agency.

END OF SECTION

Ohio Public Works Commission  
Five Year Capital Improvement Plan/Maintenance of Effort  
**REQUIRED**

**Submit to Commission/Update Annually**

Subdivision Ottawa County Code 123-00123 Date 8/18/2020

Project Name/Description	Funding Codes(s)	Status (A) Active (P) Pending (C) Complete	Total Cost	Two Year Effort		Five Year Plan					
				Yr 2019	Yr 2020	Yr 2021	Yr 2022	Yr 2023	Yr 2024	Yr 2025	
				Funded		Planned					
Phase I, Erie Township Sanitary Sewer Project	OPWC, ACE, EPA	C	\$1,272,571	\$1,272,571							
Phase I, PCI WWTP & Collection System Improvement	EPA, Local	C	\$2,411,112	\$2,411,112							
OCRW - Distribution Tower Repairs & Replacement	OPWC, Local	C	\$1,167,419	\$1,167,419							
OCRWTP - Clarifier Mechanism Re-coating	OPWC, Local	C	\$481,071	\$481,071							
State Road, Sanitary Sewer Emergency Subsidence	OPWC, Local	C	\$268,368	\$254,623	\$18,447						
Danbury WWTP & Collection System Improvements	Local	C	\$1,618,706	\$697,456	\$921,250						
OCRWTP - Rebuild Raw Water Pump #3	Local	C	\$22,681	\$22,681							
PCI - Moores Dock Rd Sanitary Sewer Replacement	OPWC, Local	A	\$390,037	\$37,767	\$325,000	\$27,270					
Danbury WWTS - Ph II Collection System Imp's	Local	P	\$1,615,575		\$300,000	\$1,300,000	\$15,575				
PCI - WWTS - Ph II Collection System Imp's	OPWC, WPCLF	P	\$484,111		\$50,000	\$430,000	\$4,111				
OCRWTP - Filter Bed Rehab & Media Replacement	OPWC	P	\$275,000		\$20,000	\$240,000	\$15,000				
RWTP & Interconnector Cathodic Protection	OPWC, Local	P	\$105,000				\$50,000	\$55,000			
Regional Water - Distribution Flow Monitoring	OPWC, Local	P	\$220,500					\$20,000	\$200,500		
Allen/Jerusalem Twp. Sanitary Sewer Extension	EPA, Local	P	\$19,784,988	\$24,000				\$1,250,000	\$15,510,988	\$3,000,000	