Administrative	Use	Only
Contract Date:		

# PROFESSIONAL SERVICES AGREEMENT BETWEEN OHM ADVISORS AND THE CITY OF ANN ARBOR FOR

**WWTP Tertiary Filter Clear Well Improvement Project, RFP # 19-13** 

The City of Ann Arbor, a Michigan municipal corporation, having its offices at 301 E. Huron St. Ann Arbor, Michigan 48104 ("City"), and Orchard, Hiltz, & McCliment, Inc. (OHM) ("Contractor"), a(n) Michigan Corporation with its address at 34000 Plymouth Road, Livonia, Michigan, agree as follows:

The Contractor agrees to provide services to the City under the following terms and conditions:

#### I. DEFINITIONS

Administering Service Area/Unit means Public Services Area.

Contract Administrator means Christopher Englert, acting personally or through any assistants authorized by the Administrator/Manager of the Administering Service Area/Unit.

Deliverables means all Plans, Specifications, Reports, Recommendations, and other materials developed for and delivered to City by Contractor under this Agreement.

Project means WWTP Tertiary Filter Clear Well Improvement Project.

#### II. DURATION

Contractor shall commence performance on \_\_\_\_\_\_\_, 20\_\_\_\_\_ ("Commencement Date"). This Agreement shall remain in effect until satisfactory completion of the Services specified below unless terminated as provided for in Article XI. The terms and conditions of this Agreement shall apply to the earlier of the Effective Date or Commencement Date.

#### III. SERVICES

A. The Contractor agrees to provide Professional Engineering Services

("Services") in connection with the Project as described in Exhibit A. The City retains the right to make changes to the quantities of service within the general scope of the Agreement at any time by a written order. If the changes add to or deduct from the extent of the services, the contract sum shall be adjusted accordingly. All such changes shall be executed under the conditions of the original Agreement.

- B. Quality of Services under this Agreement shall be of the level of quality performed by persons regularly rendering this type of service. Determination of acceptable quality shall be made solely by the Contract Administrator.
- C. The Contractor shall perform its Services for the Project in compliance with all statutory, regulatory, and contractual requirements now or hereafter in effect as may be applicable to the rights and obligations set forth in the Agreement.
- D. The Contractor may rely upon the accuracy of reports and surveys provided to it by the City (if any) except when defects should have been apparent to a reasonably competent professional or when it has actual notice of any defects in the reports and surveys.

#### IV. INDEPENDENT CONTRACTOR

The Parties agree that at all times and for all purposes under the terms of this Agreement each Party's relationship to any other Party shall be that of an independent contractor. Each Party will be solely responsible for the acts of its own employees, agents, and servants. No liability, right, or benefit arising out of any employer/employee relationship, either express or implied, shall arise or accrue to any Party as a result of this Agreement.

#### V. COMPENSATION OF CONTRACTOR

- A. The Contractor shall be paid in the manner set forth in Exhibit B. Payment shall be made monthly, unless another payment term is specified in Exhibit B, following receipt of invoices submitted by the Contractor, and approved by the Contract Administrator.
- B. The Contractor will be compensated for Services performed in addition to the Services described in Article III, only when the scope of and compensation for those additional Services have received prior written approval of the Contract Administrator.
- C. The Contractor shall keep complete records of work performed (e.g. tasks performed, hours allocated, etc.) so that the City may verify invoices submitted by the Contractor. Such records shall be made available to the City upon request and submitted in summary form with each invoice.

#### VI. INSURANCE/INDEMNIFICATION

- Α. The Contractor shall procure and maintain during the life of this contract such insurance policies, including those set forth in Exhibit C, as will protect itself and the City from all claims for bodily injuries, death or property damage that may arise under this contract; whether the act(s) or omission(s) giving rise to the claim were made by the Contractor, any subcontractor or anyone employed by them directly or indirectly. Prior to commencement of work under this Agreement, Contractor shall provide to the City documentation satisfactory to the City, through Cityapproved means (currently myCOI), demonstrating it has obtained the policies and endorsements required by Exhibit C. Contractor registration@mycoitracking.com to its safe sender's list so that it will receive necessary communication from myCOI. When requested, Contractor shall provide the same documentation for its subcontractor(s) (if any).
- B. Any insurance provider of Contractor shall be authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company's Key Rating Guide of "A-" Overall and a minimum Financial Size Category of "V". Insurance policies and certificates issued by non-authorized insurance companies are not acceptable unless approved in writing by the City.
- C. To the fullest extent permitted by law, Contractor shall indemnify, defend, and hold the City, its officers, employees and agents harmless from all suits, claims, judgments and expenses, including attorney's fees, resulting or alleged to result, from any acts or omissions by Contractor or its employees and agents occurring in the performance of or breach in this Agreement, except to the extent that any suit, claim, judgment or expense are finally judicially determined to have resulted from the City's negligence or willful misconduct or its failure to comply with any of its material obligations set forth in this Agreement.

#### VII. COMPLIANCE REQUIREMENTS

A. <u>Nondiscrimination</u>. The Contractor agrees to comply, and to require its subcontractor(s) to comply, with the nondiscrimination provisions of MCL 37.2209. The Contractor further agrees to comply with the provisions of Section 9:158 of Chapter 112 of the Ann Arbor City Code and to assure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity.

B. <u>Living Wage</u>. If the Contractor is a "covered employer" as defined in Chapter 23 of the Ann Arbor City Code, the Contractor agrees to comply with the living wage provisions of Chapter 23 of the Ann Arbor City Code. The Contractor agrees to pay those employees providing Services to the City under this Agreement a "living wage," as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Agreement are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

#### VIII. WARRANTIES BY THE CONTRACTOR

- A. The Contractor warrants that the quality of its Services under this Agreement shall conform to the level of quality performed by persons regularly rendering this type of service.
- B. The Contractor warrants that it has all the skills, experience, and professional licenses necessary to perform the Services specified in this Agreement.
- C. The Contractor warrants that it has available, or will engage, at its own expense, sufficient trained employees to provide the Services specified in this Agreement.
- D. The Contractor warrants that it is not, and shall not become overdue or in default to the City for any contract, debt, or any other obligation to the City including real and personal property taxes.
- E. The Contractor warrants that its proposal for services was made in good faith, it arrived at the costs of its proposal independently, without consultation, communication or agreement, for the purpose of restricting completion as to any matter relating to such fees with any competitor for these Services; and no attempt has been made or shall be made by the Contractor to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition.

#### IX. OBLIGATIONS OF THE CITY

- A. The City agrees to give the Contractor access to the Project area and other Cityowned properties as required to perform the necessary Services under this Agreement.
- B. The City shall notify the Contractor of any defects in the Services of which the Contract Administrator has actual notice

#### X. ASSIGNMENT

- A. The Contractor shall not subcontract or assign any portion of any right or obligation under this Agreement without prior written consent from the City. Notwithstanding any consent by the City to any assignment, Contractor shall at all times remain bound to all warranties, certifications, indemnifications, promises and performances, however described, as are required of it under the Agreement unless specifically released from the requirement, in writing, by the City.
- B. The Contractor shall retain the right to pledge payment(s) due and payable under this Agreement to third parties.

#### XI. TERMINATION OF AGREEMENT

- A. If either party is in breach of this Agreement for a period of fifteen (15) days following receipt of notice from the non-breaching party with respect to a breach, the non-breaching party may pursue any remedies available to it against the breaching party under applicable law, including but not limited to, the right to terminate this Agreement without further notice. The waiver of any breach by any party to this Agreement shall not waive any subsequent breach by any party.
- B. The City may terminate this Agreement, on at least thirty (30) days advance notice, for any reason, including convenience, without incurring any penalty, expense or liability to Contractor, except the obligation to pay for Services actually performed under the Agreement before the termination date.
- C. Contractor acknowledges that, if this Agreement extends for several fiscal years, continuation of this Agreement is subject to appropriation of funds for this Project. If funds to enable the City to effect continued payment under this Agreement are not appropriated or otherwise made available, the City shall have the right to terminate this Agreement without penalty at the end of the last period for which funds have been appropriated or otherwise made available by giving written notice of termination to Contractor. The Contract Administrator shall give Contractor written notice of such non-appropriation within thirty (30) days after it receives notice of such non-appropriation.
- D. The provisions of Articles VI and VIII shall survive the expiration or earlier termination of this Agreement for any reason. The expiration or termination of this Agreement, for any reason, shall not release either party from any obligation or liability to the other party, including any payment obligation that has already accrued and Contractor's obligation to deliver all Deliverables due as of the date of termination of the Agreement.

#### XII. REMEDIES

A. This Agreement does not, and is not intended to, impair, divest, delegate or contravene any constitutional, statutory and/or other legal right, privilege, power, obligation, duty or immunity of the Parties.

- B. All rights and remedies provided in this Agreement are cumulative and not exclusive, and the exercise by either party of any right or remedy does not preclude the exercise of any other rights or remedies that may now or subsequently be available at law, in equity, by statute, in any agreement between the parties or otherwise.
- C. Absent a written waiver, no act, failure, or delay by a Party to pursue or enforce any rights or remedies under this Agreement shall constitute a waiver of those rights with regard to any existing or subsequent breach of this Agreement. No waiver of any term, condition, or provision of this Agreement, whether by conduct or otherwise, in one or more instances, shall be deemed or construed as a continuing waiver of any term, condition, or provision of this Agreement. No waiver by either Party shall subsequently effect its right to require strict performance of this Agreement.

#### XIII. NOTICE

All notices and submissions required under this Agreement shall be delivered to the respective party in the manner described herein to the address stated in this Agreement or such other address as either party may designate by prior written notice to the other. Notices given under this Agreement shall be in writing and shall be personally delivered, sent by next day express delivery service, certified mail, or first class U.S. mail postage prepaid, and addressed to the person listed below. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; (2) the next business day when notice is sent next day express delivery service or personal delivery; or (3) three days after mailing first class or certified U.S. mail.

If Notice is sent to the CONTRACTOR, it shall be addressed and sent to:

OHM Advisors Robert Czachorski, Principal-In-Charge 34000 Plymouth Road Livonia, Michigan 48150

If Notice is sent to the CITY, it shall be addressed and sent to:

City of Ann Arbor Craig Hupy, Public Services Administrator 301 E. Huron St. Ann Arbor, Michigan 48104

With a copy to: The City of Ann Arbor ATTN: Office of the City Attorney 301 East Huron Street, 3<sup>rd</sup> Floor Ann Arbor, Michigan 48104

#### XIV. CHOICE OF LAW AND FORUM

This Agreement will be governed and controlled in all respects by the laws of the State of Michigan, including interpretation, enforceability, validity and construction, excepting the principles of conflicts of law. The parties submit to the jurisdiction and venue of the Circuit Court for Washtenaw County, State of Michigan, or, if original jurisdiction can be established, the United States District Court for the Eastern District of Michigan, Southern Division, with respect to any action arising, directly or indirectly, out of this Agreement or the performance or breach of this Agreement. The parties stipulate that the venues referenced in this Agreement are convenient and waive any claim of non-convenience.

#### XV. OWNERSHIP OF DOCUMENTS

Upon completion or termination of this Agreement, all documents (i.e., Deliverables) prepared by or obtained by the Contractor as provided under the terms of this Agreement shall be delivered to and become the property of the City. Original basic survey notes, sketches, charts, drawings, partially completed drawings, computations, quantities and other data shall remain in the possession of the Contractor as instruments of service unless specifically incorporated in a deliverable, but shall be made available, upon request, to the City without restriction or limitation on their use. The City acknowledges that the documents are prepared only for the Project. Prior to completion of the contracted Services the City shall have a recognized proprietary interest in the work product of the Contractor.

Unless otherwise stated in this Agreement, any intellectual property owned by Contractor prior to the effective date of this Agreement (i.e., Preexisting Information) shall remain the exclusive property of Contractor even if such Preexisting Information is embedded or otherwise incorporated in materials or products first produced as a result of this Agreement or used to develop Deliverables. The City's right under this provision shall not apply to any Preexisting Information or any component thereof regardless of form or media.

#### XVI. CONFLICTS OF INTEREST OR REPRESENTATION

Contractor certifies it has no financial interest in the Services to be provided under this Agreement other than the compensation specified herein. Contractor further certifies that it presently has no personal or financial interest, and shall not acquire any such interest, direct or indirect, which would conflict in any manner with its performance of the Services under this Agreement.

Contractor agrees to advise the City if Contractor has been or is retained to handle any matter in which its representation is adverse to the City. The City's prospective consent to the Contractor's representation of a client in matters adverse to the City, as identified above, will not apply in any instance where, as the result of Contractor's representation, the Contractor has obtained sensitive, proprietary or otherwise confidential information of a non-public nature that, if known to another client of the Contractor, could be used in any such other matter by the other client to the material disadvantage of the City. Each matter will be reviewed on a case by case basis.

#### XVII. SEVERABILITY OF PROVISIONS

Whenever possible, each provision of this Agreement will be interpreted in a manner as to be effective and valid under applicable law. However, if any provision of this Agreement or the application of any provision to any party or circumstance will be prohibited by or invalid under applicable law, that provision will be ineffective to the extent of the prohibition or invalidity without invalidating the remainder of the provisions of this Agreement or the application of the provision to other parties and circumstances.

#### XVIII. EXTENT OF AGREEMENT

This Agreement, together with any affixed exhibits, schedules or other documentation, constitutes the entire understanding between the City and the Contractor with respect to the subject matter of the Agreement and it supersedes, unless otherwise incorporated by reference herein, all prior representations, negotiations, agreements or understandings whether written or oral. Neither party has relied on any prior representations, of any kind or nature, in entering into this Agreement. No terms or conditions of either party's invoice, purchase order or other administrative document shall modify the terms and conditions of this Agreement, regardless of the other party's failure to object to such form. This Agreement shall be binding on and shall inure to the benefit of the parties to this Agreement and their permitted successors and permitted assigns and nothing in this Agreement, express or implied, is intended to or shall confer on any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Agreement. This Agreement may only be altered, amended or modified by written amendment signed by the Contractor and the City. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement.

#### XIX. ELECTRONIC TRANSACTION

The parties agree that signatures on this Agreement may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this Agreement.

#### XX. EFFECTIVE DATE

This Agreement will become effective when all parties have signed it. The Effective Date of this Agreement will be the date this Agreement is signed by the last party to sign it.

#### FOR THE CITY OF ANN ARBOR

## FOR CONTRACTOR By \_\_\_\_\_\_Type Name By \_\_\_\_\_\_Christopher Taylor, Mayor Date: Approved as to substance Craig Hupy, Public Services Administrator Howard S. Lazarus, City Administrator Approved as to form and content Stephen K. Postema, City Attorney

## EXHIBIT A SCOPE OF SERVICES



September 11, 2019

Mr. Chris Englert, P.E. Senior Utilities Engineer City of Ann Arbor Wastewater Treatment Plant 49 Old Dixboro Rd. Ann Arbor, Michigan 48105

RE: WWTP Tertiary Filter Clear Well Improvements Professional Engineering Services Work Plan

Dear Mr. Englert:

As a supplement to our proposal, OHM Advisors (OHM) is pleased to submit this work plan for the engineering services associated with the wastewater Treatment Plant (WWTP) Tertiary Filter Clear Well Improvements.

#### Work Plan

The following is the scope of services that OHM Advisors proposes to provide to the City of Ann Arbor (City). This work plan is based on OHM's proposal, our proposal interview and subsequent fee negotiation meeting. Our scope of work includes investigation, alternative analysis, preliminary design and final design phase services.

#### Task 1 Investigation

- 1. Obtain and review existing monthly operating reports, data for DO measurements and the additional DO monitoring data OHM requested.
- 2. Hold kick off meeting to confirm scope of project. Issue meeting notes.
- 3. Hold pre-entry coordination meeting for confined space entry investigations into each of the clear wells.
- 4. Perform confined space entry and condition assessment of South Clear Well.
- 5. Perform confined space entry and condition assessment of North Clear Well.
- 6. Condition assessment of Clear Wells includes: assessment of exposed structural concrete, existing equipment such as pipe, gates, diffusers, pressure relief valves, existing baffle walls, etc.
- 7. Prepare condition assessment memo and review with the City. Provide meeting notes.

#### Task 2 Feasible Alternatives Analysis

- 1. Research aeration technologies available.
- 2. Prepare up to three diffuser and baffle wall layout options for consideration.
- 3. Identify baffle wall construction material options.
- 4. Draft blower automation control narratives.



- 5. Review seasonal fluctuations impact on DO optimization.
- 6. Prepare technical memorandum of feasible alternatives including construction and O&M costs and pros and cons for each alternative.
- 7. Perform QAQC.
- 8. Hold project advance to discuss alternatives with the City and agree upon path forward. Issue meeting notes.

#### Task 3 Preliminary Design

- 1. Draft Basis of Design memo based on the selected alternative.
- 2. Identify required permits.
- 3. Perform air calculations
- 4. Identify diffuser equipment providers and proposed layout.
- 5. Identify baffle wall material of construction and layout.
- 6. Identify DO measurement instrumentation.
- 7. Prepare 50% drawings for proposed new and demolition work
- 8. Prepare table of contents of technical specifications and schedules of proposed equipment and suppliers
- 9. Draft sequence of construction.
- 10. Prepare preliminary opinion of probable construction costs and construction schedule.
- 11. Perform QAQC
- 12. Issue preliminary design deliverable to City for review.
- 13. Hold project advance to discuss preliminary design submittal and receive input from City. Issue meeting notes.

#### Task 4 Final Design

- 1. Finalize the Basis of Design memo.
- 2. Finalize drawings including details of equipment installation, baffles walls, concrete rehabilitation etc
- 3. Prepare blower automation and DO monitoring PID
- 4. Prepare technical specifications.
- 5. Prepare front-end specifications.
- 6. Prepare 100% design drawings.
- 7. Finalize sequence of construction.
- 8. Update opinion of probable construction costs and construction schedule.
- Perform QAQC
- 10. Issue preliminary design deliverable to City for review.
- 11. Hold project advance to discuss final design submittal and receive input from City. Issue meeting notes.
- 12. Update drawings and specifications for the City's comments.
- 13. Prepare permit review set and bidding documents.

#### **CLARIFICATIONS & ASSUMPTIONS**

The Work Plan above is based on the following assumptions:

• The City will isolate, drain and dewater the clear wells for confined space entry. OHM expects that the water level in the clear wells for our investigation will be 3 inches or less.



- The existing clear well aeration blower is equipped with a variable frequency drive that is currently tied into the City's SCADA system.
- There are available spare analog inputs in the Filter Building control panel for OHM's proposed DO monitoring.
- The City will provide any existing CADD files associated with this clear well project.
- The City will provide MS Word format of the City's front-end requirements for inclusion in the project manual.
- The City will provide monthly operating reports, the results of additional DO monitoring, and other reasonable data requests to OHM for analysis.

We appreciate this opportunity and look forward to starting work on this important project. If you have and questions, please do not hesitate to contact me at 734-323-8954.

Sincerely, OHM Advisors

Jennifer Drinan, P.E.

Senior Project Manager

Jemifer Deinam

## Ann Arbor WWTP Tertiary Filter Clear Wells Improvements Design Schedule Updated September 11, 2019

7/13 7/20 7/27 8/3 8/10 8/17 6/15 6/22 6/29 8/9 6/1 5/11 5/18 5/25 5/4 4/13 4/20 4/27 4/6 3/30 3/16 3/23 3/8 3/5 Start Finish Week Starting 11/01/19 08/21/20 10/28 11/4 11/11 11/18 11/25 12/2 12/9 12/16 12/23 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 11/01/19 11/01/19 11/01/19 11/04/19 11/04/19 11/16/19 11/104/19 11/16/19 11/11/19 11/16/19 11/25/19 12/06/19 11/25/19 12/06/19 12/29/19 12/20/19 12/29/19 12/20/19 12/29/19 12/20/19 01/13/20 02/28/20 01/13/20 01/24/20 01/23/20 02/13/20 02/03/20 02/14/20 02/103/20 02/14/20 02/17/20 02/14/20 02/17/20 02/14/20 03/02/20 05/01/20
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Notice to Proceed
Investigation
Review assting data
Review additional DO data
Rick off meeting
Advance 1 - Pre-Entry Coordination Meeting
South Clear Well inspection
North Clear Well inspection
North Clear Well inspection
North Clear Well spection
And Clear Well spection
And Advance 2 - Clear Well Assessment Findings Ann Arbor review final design returners.

Advance 5: final Design Review Meeting
Submit permit set to EGE and Ann Arbor Township
EGLE and Ann Ann Arbor Township Review period
Update contract document for permit comments
Ostribute Bioloning documents to Ann Arbor Research aeration technologies available Propose diffuser layouts with baffle walls Consider automation of blower operations Prepare file cycle cost estimation of alternatives Prepare tech memo feasible alternatives ance 3 -Feasible Alternatives - Path Forward ID major equipment suppliers 50% design drawings Sperification Table of Contents Deal requence of construction Preliminary Construction Cost estimate Preliminary Construction Schedule Detailed sequence of construction Draft Division 0 and 1 specifications Updated Construction Cost estimate Updated Construction Schedule QAQC Address QAQC comments Ann Arbor review preliminary design Advance 4 - Preliminary Design Review M Final Design
Finalize Basis of Design Report
100% design drawings
Detailed technical specifications Preliminary Design

Draft Basis of Design Report

Air calculations ID required permits
ID materials of construction Address QAQC comments Alternatives Analysis



### EXHIBIT B COMPENSATION

#### General

Contractor shall be paid for those Services performed pursuant to this Agreement inclusive of all reimbursable expenses (if applicable), in accordance with the terms and conditions herein. The Compensation Schedule below/attached states nature and amount of compensation the Contractor may charge the City:

Project Estimating Sheet - OHM ADVISORS

	ovement
Project Name: City of Ann Arbor WWTP	Tertiary Filter Clear Well Impr

tember 6, 2019  Jennifer Drinan  Jennife	Si Engineer Si Engineer \$175.00	Lucas De Manhice	Fleid Services Darok K Honko	OA/QC	Lead Engineer			-						
Project Manager \$175.00  2 2 8 8 4 10 10	Sherri Wright St. Engineer \$175.00		rok Klonko			Technician	ONOC	Lead Engineer	Technician					
Project Manager \$175.00	\$r. Engineer \$175.00 8			Tom Allbaugh	Mike Spurbeck	Terry Dahl	Jim Rintala	Lou Meyette	Erin Harris	TNEMEDANA	EMEG	TRUCTURAL		PROJECT TOTAL
	\$175.00	GE 1	PE2 Te	Tech Advisor	PE 3	Tech 4	PE3	PE 3	GE 2	IN		s		
	8 4	\$115,00	\$145.00	\$190.00	\$158.00	\$132.00	\$158.00	\$158.00	\$125.00					
	8 4													
	4	80		2						2	18	0 0		20
		4		2						8	10	0	0	18
			9							4	9	0 0		10
		10	16		12					10	26	12 0		48
		10	16		12					10	26	12 0		48
		8	호		88					80	12	8		28
Internal QA/QC	4			2						0	9	0 0		9
Progress Advance Workshop - Clear Well Assessment Findings 4	2	4		2	4					4	8	4 0		16
TOTAL HOURS	18	44	42	89	36	0	0	0	0	46	112	36 0		194
TOTAL COSTS \$8,050	\$3,150	\$5,060	060'9\$	\$1,520	\$5,688	\$0	90	\$0	\$0	\$8,050	\$15,820 \$5	\$5,688	\$0 \$28	\$29,558
PHASE 2 - Feasible Aternatives														
Review two different aeration technologies	4	8		4						1	16	0		17
Propose three diffuser and baffle wall layout option	4	12		2	4	4				2	18	8		28
Propose baffle wall rehab and replace options	4	4			8					2	8	8 0		18
Review automation of blowers and continual DO monitoring	4	8		4				2	8	0	16	0 10	10 2	26
Optimization of DO for seasonal fluctuations	4	4		2				2	8	0	10	0 10	10	20
Construction and operational cost estimates for alternatives	8									0	8	0		89
Prepare Feasible Alternatives memorandum	4	8		2	4					0	14	4 0		18
Internal QA/QC 4				4			2	2		4	4	2 2		12
Progress Advance Workshop - Feasible Alternatives Review 8	2	4		2	2					8	89	2 0		18
TOTAL HOURS	34	48	0	20	18	4	2	9	16	17	102	24 22		165
TOTAL COSTS \$2,975	\$5,950	\$5,520	\$0	\$3,800	\$2,844	\$528	\$316	\$948	\$2,000	\$2,975	\$15,270 \$3	\$3,688 \$2,9	\$2,948 \$24	\$24,881

Project Estimating Sheet - OHM ADVISORS
Project Name: City of Ann Arbor WWTP

Prepared By: Jennifer Drinan	Management		EWRG	86			STRUCTURAL		M	MEP					
Standard hourly rates include an overhead factor of 1.85	ЬМ	Lead Engineer	Technician	Field Services	0A.0C	Lead Engineer	Fechnician	OAOC	Lead Engineer	Technician					
Date: September 6, 2019	Jennifer Drinan	Sherri Wright	Lucas	Derek Kienke	Tom Allbaugh	Mike Spurbeck	Terry Dahi	Jim Rintala	Lou Meyette	Erin Harris	ANAGEMENT	EMKG	TRUCTURAL	WEb	PROJECT TOTAL
	Project Manager	Sr. Engineer	GE 1	PE2	Tech Advisor	PE 3	Tech 4	PE3	PE 3	GE 2	w		.s		
Labor Cost as an hourly rate	\$175.00	\$175.00	\$115.00	\$145.00	\$190.00	\$158.00	\$132.00	\$158.00	\$158,00	\$125.00					
PHASE 3 - Basis of Design and Preliminary Desgin															
Review existing blower for possible modifications	1		4		2				2	8	1	9	0	10	17
Oxygen transfer calculations		2	8								0	10	0	0	10
Prepare preliminary basis of design		*8*	4								0	8	0	0	8
Size/specify baffle wall details		2			-	4	80				0	3	12	0	15
Size/specify diffuser details		2	80		-						0	11	0	0	11
Size/specify blower modifications, if required		œ	80						4	4	0	16	0	8	24
Size/specify DO monitors		4			4					4	0	8	0	t	12
Identify structural repair details, materials and quantities	4		8			4	00				4	8	12	0	24
Draft sequence of operation for aeration system		8							4		0	8	0	4	12
Prepare details for access during construction	4					4	8				4	0	12	0	16
50% Design drawings		8	40			4	12			4	0	48	16	ব	68
50% Specifications		80	16			4				4	0	24	4	4	32
Draft demolition and construction sequencing	4	2									4	2	0	0	9
Develop 50% Construction Cost Opinion & Schedule		4	17			4				2	0	8	4	2	14
Internal QA/QC	8				ω			2	2		80	80	2	2	20
Progress Advance Workshop - Preliminary Design	9	2	4		2	4					9	8	4	0	18
Submit Preliminary Design to EGLE for review	2	4									2	4	0	0	9
TOTAL HOURS	29	58	104	0	18	28	36	2	12	26	29	180	99	38	313
TOTAL COSTS	\$5,075	\$10,150	\$11,960	0\$	\$3.420	\$4,424	\$4,752	\$316	\$1,896	\$3,250	\$5,075	\$25,530	\$9,492	\$5,146	\$45,243
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Project Estimating Sheet - OHM ADVISORS
Project Name: City of Ann Arbor WWTP

Prepared By: Jennifer Drinan	Management		EW	EWRG			STRUCTURAL	報を記述	M	MEP					
Standard hourly rates include an overhead factor of 1.85	ЬМ	Lead Engineer	Technician	Field Services	GANDO	Lead Engineer	Technician	ONOC	Lead Engineer	Technician					
Date: September 6, 2019	Jennifer Drinan	Sherri Wright	Lucas Manhice	Derek Kienke	Tom Alibaugh	Mike Spurbeck	Terry Dahi	Jim Rintala	Lou Meyette	Erin Harris	MAGEMENT	EMBG	ГВИСТИВАL	daM EP	PROJECT TOTAL
	Project Manager	Sr. Engineer	GE 1	PE2	Tech Advisor	PE 3	Tech 4	PE3	PE 3	GE 2	/W		.s		
Labor Cost as an hourly rate	\$175.00	\$175.00	\$115.00	\$145.00	\$190.00	\$158.00	\$132.00	\$158.00	\$158.00	\$125.00					
PHASE 4 - Final Design															
Update design for 50% review comments			4				2			2	0	4	2	2	80
Finalize Basis of Design	0	2	2								0	4	0	0	4
Finalize temporary construction design elements	2	4	8		2	4	8			2	2	14	12	2	30
Update demolition and construction sequencing	4	4	4		2	4					4	10	4	0	18
90% Design drawings		8	24			4	8			4	0	32	12	4	48
90% Specifications		89	16		4	4		***************************************	2	4	0	28	4	9	38
Internal QA/QC	9				9			2	2		9	9	2	2	16
Develop 90% cost estimate and construction schedule	2	7	8								2	12	0	0	14
Progress Advance Workshop - Final Design	9	2	4		2	2					9	8	2	0	16
Finalize bidding documents	2	80	8		2	2	2		2	4	2	400	4	9	30
Submit design to EGLE for review and Ann Arbor Township permits	2	4									2	4	0	0	9
TOTAL HOURS	24	44	78	0	18	20	20	2	9	16	24	140	42	22	228
TOTAL COSTS	\$4,200	\$7,700	\$8,970	\$0	\$3,420	\$3,160	\$2.640	\$316	\$948	\$2.000	\$4,200	\$20,090	\$6,116	\$2,948	\$33,354
				THE PERSON NAMED IN		THE REAL PROPERTY.	THE REAL PROPERTY.	Section of the last	The state of the s	Sanda Sanda					
TOTAL HOURS	116	154	274	42	64	102	09	9	24	89	116	534	168	82	006
TOTAL COST	\$20,300	\$26.950	\$31,510	\$6.090	\$12,160	\$16,116	\$7,920	\$948	\$3.792	\$7,250	\$20,300	\$76,710	\$24,984 \$	\$11,042	\$133,036
TOTAL CADD HOURS			84				44			14			0.000		142
TOTAL CADD FEES			\$9,660.00				\$5,808,00			\$1,750.00					\$17.218

### EXHIBIT C INSURANCE REQUIREMENTS

From the earlier of the Effective Date or the Commencement Date of this Agreement, and continuing without interruption during the term of this Agreement, Contractor shall have, at a minimum, the following insurance, including all endorsements necessary for Contractor to have or provide the required coverage.

- A. The Contractor shall have insurance that meets the following minimum requirements:
  - 1. Professional Liability Insurance or Errors and Omissions Insurance protecting the Contractor and its employees in an amount not less than \$1,000,000.
  - 2. Worker's Compensation Insurance in accordance with all applicable state and federal statutes. Further, Employers Liability Coverage shall be obtained in the following minimum amounts:

Bodily Injury by Accident - \$500,000 each accident Bodily Injury by Disease - \$500,000 each employee Bodily Injury by Disease - \$500,000 each policy limit

3. Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 04 13 or current equivalent. The City of Ann Arbor shall be an additional insured. There shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. Further, the following minimum limits of liability are required:

\$1,000,000 Each occurrence as respect Bodily Injury Liability or Property Damage Liability, or both combined \$2,000,000 Per Project General Aggregate Personal and Advertising Injury

- 4. Motor Vehicle Liability Insurance equivalent to, as a minimum, Insurance Services Office form CA 00 01 10 13 or current equivalent. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. The City of Ann Arbor shall be an additional insured. There shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. Further, the limits of liability shall be \$1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.
- 5. Umbrella/Excess Liability Insurance shall be provided to apply in excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of \$1,000,000.

- B. Insurance required under A.3 and A.4 above shall be considered primary as respects any other valid or collectible insurance that the City may possess, including any self-insured retentions the City may have; and any other insurance the City does possess shall be considered excess insurance only and shall not be required to contribute with this insurance. Further, the Contractor agrees to waive any right of recovery by its insurer against the City for any insurance listed herein.
- C. Insurance companies and policy forms are subject to approval of the City Attorney, which approval shall not be unreasonably withheld. Documentation must provide and demonstrate an unconditional and unqualified 30-day written notice of cancellation in favor of the City of Ann Arbor. Further, the documentation must explicitly state the following: (a) the policy number(s); name of insurance company; name(s), email address(es), and address(es) of the agent or authorized representative; name and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions, which may be approved by the City in its sole discretion; (c) that the policy conforms to the requirements specified. Contractor shall furnish the City with satisfactory certificates of insurance and endorsements prior to commencement of any work. Upon request, the Contractor shall provide within 30 days, a copy of the policy(ies) and all required endorsements to the City. If any of the above coverages expire by their terms during the term of this contract, the Contractor shall deliver proof of renewal and/or new policies and endorsements to the Administering Service Area/Unit at least ten days prior to the expiration date.