PUBLIC IMPROVEMENT REQUEST FOR PROPOSAL

RFP# 23-03

VETERANS MEMORIAL PARK ICE ARENA IMPROVEMENTS

City of Ann Arbor PARKS AND RECREATION SERVICES COMMUNITY SERVICES UNIT



Due Date: April 4, 2023 by 10:00 a.m.(local time)

Issued By:

City of Ann Arbor Procurement Unit 301 E. Huron Street Ann Arbor, MI 48104

ADDENDUM No. 1

RFP No. 23-03

VETERANS MEMORIAL PARK ICE ARENA IMPROVMENTS

Due: April 4, 2023 at 10:00 A.M. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes one (1) page.**

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D Prevailing Wage Declaration of Compliance
- Attachment F Living Wage Declaration of Compliance
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Declaration of Compliance

<u>Proposals that fail to provide these completed forms listed above upon proposal opening</u> <u>may be rejected as non-responsive and may not be considered for award.</u>

I. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

- Question 1: What product is to be used to seal the exterior walls.
- Answer 1: *Refer to Specification Section 07181.*
- Question 2: When does the project need to be completed by? Are there any events/dates that will impact project schedule?
- Answer 2: Substantial Completion of the project must be no later than September 1, 2023. There are no events scheduled to use the Ice Arena throughout duration of the project.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

ADDENDUM No. 2

RFP No. 23-03

VETERANS MEMORIAL PARK ICE ARENA IMPROVMENTS

Updated Due: April 13, 2023 at 10:00 A.M. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes one (1) page.**

The Proposer is to acknowledge receipt of this Addendum No. 2, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D Prevailing Wage Declaration of Compliance
- Attachment F Living Wage Declaration of Compliance
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Declaration of Compliance

<u>Proposals that fail to provide these completed forms listed above upon proposal opening</u> <u>may be rejected as non-responsive and may not be considered for award.</u>

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s) Change

All mentions As provided in RFP No. 23-03 Document and Addendum 1: Proposal Due Date: April 4, 2023 at 10:00 a.m.

As updated herein:

Proposal Due Date: April 13, 2023 at 10:00 a.m.

Comment: The Due Date and Time for responses to this RFP has been extended as provided above. Note that all other dates are unchanged.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

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SECTION I - GENERAL INFORMATION

A. OBJECTIVE

The purpose of this Request for Proposal (RFP) is to select a contractor to provide limited demolition and repair/rehabilitation of the walls and structure at the Veteran's Park Ice Arena building.

B. BID SECURITY

Each bid <u>must be accompanied</u> by a certified check, or Bid Bond by a surety licensed and authorized to do business within the State of Michigan, in the amount of 5% of the total of the bid price.

Proposals that fail to provide a bid security upon proposal opening will be deemed non-responsive and will not be considered for award.

C. QUESTIONS AND CLARIFICATIONS / DESIGNATED CITY CONTACTS

All questions regarding this Request for Proposal (RFP) shall be submitted via e-mail. Questions will be accepted and answered in accordance with the terms and conditions of this RFP.

<u>All questions shall be submitted on or before March 17, 2023 at 5:00 p.m. (local time)</u>, and should be addressed as follows:

Scope of Work/Proposal Content questions shall be e-mailed to Adam Fercho, Park Planner / Landscape Architect, Afercho@a2gov.org

RFP Process and Compliance questions shall be e-mailed to Colin Spencer, Buyer - CSpencer@a2gov.org

Should any prospective bidder be in doubt as to the true meaning of any portion of this RFP, or should the prospective bidder find any ambiguity, inconsistency, or omission therein, the prospective bidder shall make a written request for an official interpretation or correction by the due date for questions above.

All interpretations, corrections, or additions to this RFP will be made only as an official addendum that will be posted to a2gov.org and MITN.info and it shall be the prospective bidder's responsibility to ensure they have received all addenda before submitting a proposal. Any addendum issued by the City shall become part of the RFP, and must be incorporated in the proposal where applicable.

D. PRE-PROPOSAL MEETING

A pre-proposal conference for this project will be held on **March 15, 2023, 10:30AM** at **Veterans Memorial Ice Arena (2150 Jackson Ave. Ann Arbor, MI 48103).** Please park in the westernn most parking lot off of Jackson Road.

Attendance at this conference is highly recommended. Administrative and technical questions regarding this project will be answered at this time. The pre-proposal conference is for information only. Any answers furnished will not be official until verified in writing by the Financial Service Area, Procurement Unit. Answers that change or substantially clarify the proposal will be affirmed in an addendum.

E. PROPOSAL FORMAT

To be considered, each firm must submit a response to this RFP using the format provided in Section III. No other distribution of proposals is to be made by the prospective bidder. An official authorized to bind the bidder to its provisions must sign the proposal. Each proposal must remain valid for at least one hundred and twenty (120) days from the due date of this RFP.

Proposals should be prepared simply and economically providing a straightforward, concise description of the bidder's ability to meet the requirements of the RFP. No erasures are permitted. Mistakes may be crossed out and corrected and must be initialed in ink by the person signing the proposal.

F. SELECTION CRITERIA

Responses to this RFP will be evaluated using a point system as shown in Section III. A selection committee comprised primarily of staff from the City will complete the evaluation.

If interviews are desired by the City, the selected firms will be given the opportunity to discuss their proposal, qualifications, past experience, and their fee proposal in more detail. The City further reserves the right to interview the key personnel assigned by the selected bidder to this project.

All proposals submitted may be subject to clarifications and further negotiation. All agreements resulting from negotiations that differ from what is represented within the RFP or in the proposal response shall be documented and included as part of the final contract.

G. SEALED PROPOSAL SUBMISSION

All proposals are due and must be delivered to the City on or before April 4, 2023 by 10:00 a.m. (local time). Proposals submitted late or via oral, telephonic, telegraphic, electronic mail or facsimile will not be considered or accepted.

Each respondent should submit in a sealed envelope

- one (1) original proposal
- one (1) additional proposal copy
- one (1) digital copy of the proposal preferably on a USB/flash drive as one file in PDF format

Proposals submitted should be clearly marked: "**RFP No. 23-03 – VETERANS MEMORIAL PARK ICE ARENA IMPROVEMENTS**" and list the bidder's name and address.

Proposals must be addressed and delivered to: City of Ann Arbor c/o Customer Service 301 East Huron Street Ann Arbor, MI 48107

All proposals received on or before the due date will be publicly opened and recorded on the due date. No immediate decisions will be rendered.

Hand delivered proposals may be dropped off in the Purchasing drop box located in the Ann Street (north) vestibule/entrance of City Hall which is open to the public Monday through Friday from 8am to 5pm (except holidays). The City will not be liable to any prospective bidder for any unforeseen circumstances, delivery, or postal delays. Postmarking on the due date will not substitute for receipt of the proposal.

Bidders are responsible for submission of their proposal. Additional time will not be granted to a single prospective bidder. However, additional time may be granted to all prospective bidders at the discretion of the City.

A proposal may be disqualified if the following required forms are not included with the proposal:

- Attachment D Prevailing Wage Declaration of Compliance
- Attachment E Living Wage Declaration of Compliance
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Declaration of Compliance

Proposals that fail to provide these forms listed above upon proposal opening may be deemed non-responsive and may not be considered for award.

H. DISCLOSURES

Under the Freedom of Information Act (Public Act 442), the City is obligated to permit review of its files, if requested by others. All information in a proposal is subject to

disclosure under this provision. This act also provides for a complete disclosure of contracts and attachments thereto.

I. TYPE OF CONTRACT

A sample of the Construction Agreement is included as Attachment A. Those who wish to submit a proposal to the City are required to review this sample agreement carefully. **The City will not entertain changes to its Construction Agreement.**

For all construction work, the respondent must further adhere to the City of Ann Arbor General Conditions. The General Conditions are included herein. Retainage will be held as necessary based on individual tasks and not on the total contract value. The Contractor shall provide the required bonds included in the Contract Documents for the duration of the Contract.

The City reserves the right to award the total proposal, to reject any or all proposals in whole or in part, and to waive any informality or technical defects if, in the City's sole judgment, the best interests of the City will be so served.

This RFP and the selected bidder's response thereto, shall constitute the basis of the scope of services in the contract by reference.

J. NONDISCRIMINATION

All bidders proposing to do business with the City shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the Section 9:158 of the Ann Arbor City Code. Breach of the obligation not to discriminate as outlined in Attachment H shall be a material breach of the contract. Contractors are required to post a copy of Ann Arbor's Non-Discrimination Ordinance attached at all work locations where its employees provide services under a contract with the City.

K. WAGE REQUIREMENTS

The Attachments provided herein outline the requirements for payment of prevailing wages or of a "living wage" to employees providing service to the City under this contract. The successful bidder must comply with all applicable requirements and provide documentary proof of compliance when requested.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. Use of Michigan Department of Transportation Prevailing Wage Forms (sample attached hereto) or a City-approved equivalent will be required along with wage rate interviews.

For laborers whose wage level are subject to federal, state and/or local prevailing wage law the appropriate Davis-Bacon wage rate classification is identified based

upon the work including within this contract. **The wage determination(s) current on the date 10 days before proposals are due shall apply to this contract.** The U.S. Department of Labor (DOL) has provided explanations to assist with classification in the following resource link: www.wdol.gov.

For the purposes of this RFP the Construction Type of Building will apply.

L. CONFLICT OF INTEREST DISCLOSURE

The City of Ann Arbor Purchasing Policy requires that the consultant complete a Conflict of Interest Disclosure form. A contract may not be awarded to the selected bidder unless and until the Procurement Unit and the City Administrator have reviewed the Disclosure form and determined that no conflict exists under applicable federal, state, or local law or administrative regulation. Not every relationship or situation disclosed on the Disclosure Form may be a disqualifying conflict. Depending on applicable law and regulations, some contracts may awarded on the recommendation of the City Administrator after full disclosure, where such action is allowed by law, if demonstrated competitive pricing exists and/or it is determined the award is in the best interest of the City. A copy of the Conflict of Interest Disclosure Form is attached.

M. COST LIABILITY

The City of Ann Arbor assumes no responsibility or liability for costs incurred by the bidder prior to the execution of an Agreement. The liability of the City is limited to the terms and conditions outlined in the Agreement. By submitting a proposal, bidder agrees to bear all costs incurred or related to the preparation, submission, and selection process for the proposal.

N. DEBARMENT

Submission of a proposal in response to this RFP is certification that the Respondent is not currently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from participation in this transaction by any State or Federal departments or agency. Submission is also agreement that the City will be notified of any changes in this status.

O. PROPOSAL PROTEST

All proposal protests must be in writing and filed with the Purchasing Manager within five (5) business days of any notices of intent. The bidder must clearly state the reasons for the protest. If any bidder contacts a City Service Area/Unit and indicates a desire to protest an award, the Service Area/Unit shall refer the bidder to the Purchasing Manager. The Purchasing Manager will provide the bidder with the appropriate instructions for filing the protest. The protest shall be reviewed by the City Administrator or designee, whose decision shall be final.

Any inquiries or requests regarding this procurement should be only submitted in writing to the Designated City Contacts provided herein. Attempts by the bidder to initiate contact with anyone other than the Designated City Contacts provided herein that the bidder believes can influence the procurement decision, e.g., Elected Officials, City Administrator, Selection Committee Members, Appointed Committee Members, etc., may lead to immediate elimination from further consideration.

P. SCHEDULE

The following is the schedule for this RFP process.

Activity/Event	Anticipated Date
Pre-Proposal Meeting	March 15, 2023, 10:30 a.m. (Local Time)
Written Question Deadline	March 17, 2023, 5:00 p.m. (Local Time)
Addenda Published (if needed)	Week of March 20, 2023
Proposal Due Date	April 4, 2023 by 10:00 a.m. (Local Time)
Selection/Negotiations	April 2023
Expected City Council Authorizations	May 2023

The above schedule is for information purposes only and is subject to change at the City's discretion.

Q. IRS FORM W-9

The selected bidder will be required to provide the City of Ann Arbor an IRS form W-9.

R. RESERVATION OF RIGHTS

- 1. The City reserves the right in its sole and absolute discretion to accept or reject any or all proposals, or alternative proposals, in whole or in part, with or without cause.
- 2. The City reserves the right to waive, or not waive, informalities or irregularities in terms or conditions of any proposal if determined by the City to be in its best interest.
- 3. The City reserves the right to request additional information from any or all bidders.
- 4. The City reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested within RFP.
- 5. The City reserves the right to determine whether the scope of the project will be entirely as described in the RFP, a portion of the scope, or a revised scope be implemented.
- 6. The City reserves the right to select one or more contractors or service providers to perform services.
- 7. The City reserves the right to retain all proposals submitted and to use any ideas in a proposal regardless of whether that proposal is selected. Submission of a

proposal indicates acceptance by the firm of the conditions contained in this RFP, unless clearly and specifically noted in the proposal submitted.

8. The City reserves the right to disqualify proposals that fail to respond to any requirements outlined in the RFP, or failure to enclose copies of the required documents outlined within the RFP.

S. IDLEFREE ORDINANCE

The City of Ann Arbor adopted an idling reduction Ordinance that went into effect July 1, 2017. The full text of the ordinance (including exemptions) can be found at: www.a2gov.org/idlefree.

Under the ordinance, No Operator of a Commercial Vehicle shall cause or permit the Commercial Vehicle to Idle:

- (a) For any period of time while the Commercial Vehicle is unoccupied; or
- (b) For more than 5 minutes in any 60-minute period while the Commercial Vehicle is occupied.

In addition, generators and other internal combustion engines are covered

(1) Excluding Motor Vehicle engines, no internal combustion engine shall be operated except when it is providing power or electrical energy to equipment or a tool that is actively in use.

T. ENVIRONMENTAL COMMITMENT

The City of Ann Arbor recognizes its responsibility to minimize negative impacts on human health and the environment while supporting a vibrant community and economy. The City further recognizes that the products and services the City buys have inherent environmental and economic impacts and that the City should make procurement decisions that embody, promote, and encourage the City's commitment to the environment.

The City encourages potential vendors to bring forward emerging and progressive products and services that are best suited to the City's environmental principles.

U. MAJOR SUBCONTRACTORS

The Bidder shall identify each major subcontractor it expects to engage for this Contract if the work to be subcontracted is 15% or more of the bid sum or over \$50,000, whichever is less. The Bidder also shall identify the work to be subcontracted to each major subcontractor. The Bidder shall not change or replace a subcontractor without approval by the City.

V. LIQUIDATED DAMAGES

A liquidated damages clause, as given on page C-2, Article III of the Contract, provides that the Contractor shall pay the City as liquidated damages, and not as a penalty, a sum certain per day for each and every day that the Contractor may be in default of completion of the specified work, within the time(s) stated in the Contract, or written extensions.

Liquidated damages clauses, as given in the General Conditions, provide further that the City shall be entitled to impose and recover liquidated damages for breach of the obligations under Chapter 112 of the City Code.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

SECTION II - SCOPE OF WORK

Please see the plan set for more details.

SECTION III - MINIMUM INFORMATION REQUIRED

PROPOSAL FORMAT

The following describes the elements that should be included in each of the proposal sections and the weighted point system that will be used for evaluation of the proposals.

Bidders should organize Proposals into the following Sections:

- A. Qualifications, Experience and Accountability
- B. Workplace Safety
- C. Workforce Development
- D. Social Equity and Sustainability
- E. Schedule of Pricing/Cost
- F. Authorized Negotiator
- G. Attachments

Bidders are strongly encouraged to provided details for all of the information requested below within initial proposals. Backup documentation may be requested at the sole discretion of the City to validate all of the responses provided herein by bidders. False statements by bidders to any of the criteria provided herein will result in the proposal being considered non-responsive and will not be considered for award.

Pursuant to Sec 1:325 of the City Code which sets forth requirements for evaluating public improvement bids, Bidders should submit the following:

A. Qualifications, Experience and Accountability - 20 Points

- 1. Qualifications and experience of the bidder and of key persons, management, and supervisory personnel to be assigned by the bidder.
- 2. References from individuals or entities the bidder has worked for within the last five (5) years including information regarding records of performance and job site cooperation.
- 3. Evidence of any quality control program used by the bidder and the results of any such program on the bidder's previous projects.

4. A statement from the bidder as to any major subcontractors it expects to engage including the name, work, and amount.

B. Workplace Safety – 20 Points

- 1. Provide a copy of the bidder's safety program, and evidence of a safety-training program for employees addressing potential hazards of the proposed job site. Bidder must identify a designated qualified safety representative responsible for bidder's safety program who serves as a contact for safety related matters.
- 2. Provide the bidder's Experience Modification Rating ("EMR") for the last three consecutive years. Preference within this criterion will be given to an EMR of 1.0 or less based on a three-year average.
- 3. Evidence that all craft labor that will be employed by the bidder for the project has, or will have prior to project commencement, completed at least an authorized 10-hour OSHA Construction Safety Course.
- 4. For the last three years provide a copy of any documented violations and the bidder's corrective actions as a result of inspections conducted by the Michigan Occupational Safety & Health Administration (MIOSHA), U.S. Department of Labor Occupational Safety and Health Administration (OSHA), or any other applicable safety agency.

C. Workforce Development – 20 Points

- 1. Documentation as to bidder's pay rates, health insurance, pension or other retirement benefits, paid leave, or other fringe benefits to its employees.
- 2.. Documentation that the bidder participates in a Registered Apprenticeship Program that is registered with the United States Department of Labor Office of Apprenticeship or by a State Apprenticeship Agency recognized by the USDOL Office of Apprenticeship. USDOL apprenticeship agreements shall be disclosed to the City in the solicitation response.
- 3. Bidders shall disclose the number of non-craft employees who will work on the project on a 1099 basis, and the bidders shall be awarded points based on their relative reliance on 1099 work arrangements with more points assigned to companies with fewer 1099 arrangements. Bidders will acknowledge that the City may ask them to produce payroll records at points during the project to verify compliance with this section.

D. Social Equity and Sustainability – 20 Points

- 1. A statement from the bidder as to what percentage of its workforce resides in the City of Ann Arbor and in Washtenaw County, Michigan. The City will consider in evaluating which bids best serve its interests, the extent to which responsible and qualified bidders employ individuals in either the city of the county. Washtenaw County jurisdiction is prioritized for evaluation purposes for this solicitation.
- 2. Evidence of Equal Employment Opportunity Programs for minorities, women, veterans, returning citizens, and small businesses.
- 3. Evidence that the bidder is an equal opportunity employer and does not discriminate on the basis of race, sex, pregnancy, age, religion, national origin, marital status, sexual orientation, gender identity or expression, height, weight, or disability.
- 4. The bidder's proposed use of sustainable products, technologies, or practices for the project, which reduce the impact on human health and the environment, including raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and waste management.
- 5. The bidder's environmental record, including findings of violations and penalties imposed by government agencies.

E. Schedule of Pricing/Cost – 20 Points

<u>Unit Price Bid –</u>

Item Description	Estimated Quantity	Unit Pric	<u>e</u>	Total Price
1. Replacement Gutters	1	Lump Sum	=	\$
2. Recaulk Joints and Openings	1	Lump Sum	=	\$ <u>52,915.00</u>
3. Interior Steel & CMU Painting	1	Lump Sum	=	<u>\$ 97,935.00</u>
4. CMU Repointing	6,200	Lineal Feet	=	\$ 44,635.00
5. Broken/Damaged CMU Replace	ment 68	Each	Ħ	<u>\$ 11,400.00</u>
6. Repair Door Frames	2	Each	=	<u>\$ 5,720.00</u>
7. Column Repair Type 1	37	Each	=	<u>\$ 72,478.00</u>
8. Column Repair Type 1A	1	Each	=	<u>\$ 12,590.00</u>
9. Column Repair Type 1B	6	Each	=	<u>\$ 21,230.00</u>
10. Column Repair Type 2	20	Each	Ξ	<u>\$ 42,830.00</u>
11. Column Repair Type 3	95	Each	Ξ	\$16,860.00
12. Column Repair Type 3A	21	Each	Ξ	\$4,790.00
13. Column Repair Type 3B	7	Each	=	\$2,560.00
14. Miscellaneous	1	Lump Sum	=	\$

ESTIMATED TOTAL

\$ 449,763.00

F. AUTHORIZED NEGOTIATOR / NEGOTIATIBLE ELEMENTS (ALTERNATES)

Include the name, phone number, and e-mail address of persons(s) in your organization authorized to negotiate the agreement with the City.

The proposal price shall include materials and equipment selected from the designated items and manufacturers listed in the bidding documents. This is done to establish uniformity in bidding and to establish standards of quality for the items named.

If the bidder wishes to quote alternate items for consideration by the City, it may do so under this Section. A complete description of the item and the proposed price differential must be provided. Unless approved at the time of award, substitutions where items are specifically named will be considered only as a negotiated change in Contract Sum.

If the Bidder takes exception to the time stipulated in Article III of the Contract, Time of Completion, page C-2, it is requested to stipulate its proposed time for performance of the work.

Consideration for any proposed alternative items or time may be negotiated at the discretion of the City.

G. ATTACHMENTS

General Declaration, Legal Status of Bidder, Conflict of Interest Form, Living Wage Compliance Form, Prevailing Wage Compliance Form and the Non-Discrimination Form should be completed and returned with the proposal. These elements should be included as attachments to the proposal submission.

PROPOSAL EVALUATION

- 1. The selection committee will evaluate each proposal by the above-described criteria and point system. The City reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested for evaluation. A proposal with all the requested information does not guarantee the proposing firm to be a candidate for an interview if interviews are selected to be held by the City. The committee may contact references to verify material submitted by the bidder.
- 2. The committee then will schedule interviews with the selected firms if necessary. The selected firms will be given the opportunity to discuss in more detail their qualifications, past experience, proposed work plan (if applicable) and pricing.
- 3. The interview should include the project team members expected to work on the project, but no more than six members total. The interview shall consist of a

presentation of up to thirty minutes (or the length provided by the committee) by the bidder, including the person who will be the project manager on this contract, followed by approximately thirty minutes of questions and answers. Audiovisual aids may be used during the oral interviews. The committee may record the oral interviews.

4. The firms interviewed will then be re-evaluated by the above criteria and adjustments to scoring will be made as appropriate. After evaluation of the proposals, further negotiation with the selected firm may be pursued leading to the award of a contract by City Council, if suitable proposals are received.

The City reserves the right to waive the interview process and evaluate the bidder based on their proposal and pricing schedules alone.

The City will determine whether the final scope of the project to be negotiated will be entirely as described in this RFP, a portion of the scope, or a revised scope.

Work to be done under this contract is generally described through the detailed specifications and must be completed fully in accordance with the contract documents.

Any proposal that does not conform fully to these instructions may be rejected.

PREPARATION OF PROPOSALS

Proposals should have no plastic bindings but will not be rejected as non-responsive for being bound. Staples or binder clips are acceptable. Proposals should be printed double sided on recycled paper.

Each person signing the proposal certifies that they are a person in the bidder's firm/organization responsible for the decisions regarding the fees being offered in the Proposal and has not and will not participate in any action contrary to the terms of this provision.

ADDENDA

If it becomes necessary to revise any part of the RFP, notice of the addendum will be posted to Michigan Inter-governmental Trade Network (MITN) www.mitn.info and/or the City of Ann Arbor web site www.A2gov.org for all parties to download.

Each bidder should acknowledge in its proposal all addenda it has received on the General Declarations form provided in the Attachments section herein. The failure of a bidder to receive or acknowledge receipt of any addenda shall not relieve the bidder of the responsibility for complying with the terms thereof. The City will not be bound by oral responses to inquiries or written responses other than official written addenda.

SECTION IV - ATTACHMENTS

- Attachment A Sample Standard Contract
- Attachment B General Declarations
- Attachment C Legal Status of Bidder
- Attachment D Prevailing Wage Declaration of Compliance Form
- Attachment E Living Wage Declaration of Compliance Form
- Attachment F Living Wage Ordinance Poster
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Ordinance Declaration of Compliance Form
- Attachment I Non-Discrimination Ordinance Poster
- Sample Certified Payroll Report Template

ATTACHMENT A DRAFT CONTRACT

THIS CONTRACT is between the CITY OF ANN ARBOR, a Michigan Municipal Corporation, 301 East Huron Street, Ann Arbor, Michigan 48104 ("City") and RAM CONSTRUCTION SERVICES ("Contractor") a(n) Michigan Corporation located at 13800 Eckles Road, Livonia, Michigan 48150

Based upon the mutual promises below, the Contractor and the City agree as follows:

ARTICLE I - Scope of Work

The Contractor agrees to furnish all of the materials, equipment and labor necessary; and to abide by all the duties and responsibilities applicable to it for the project titled **Veterans Memorial Park Ice Arena Improvements** in accordance with the requirements and provisions of the following documents, including all written modifications incorporated into any of the documents, all of which are incorporated as part of this Contract:

> Non-discrimination and Living Wage Declaration of Compliance Forms (if applicable) Vendor Conflict of Interest Form Prevailing Wage Declaration of Compliance Form (if applicable) Bid Forms Contract and Exhibits Bonds

General Conditions Standard Specifications Detailed Specifications Plans Addenda

ARTICLE II - Definitions

Administering Service Area/Unit means Community Services / Parks and Recreation.

Project means Veterans Memorial Park Ice Arena Improvements RFP# 23-03

Supervising Professional means the person acting under the authorization of the manager of the Administering Service Area/Unit. At the time this Contract is executed, the Supervising Professional is: **Adam Fercho** whose job title is **Landscape Architect / Park Planner**. If there is any question concerning who the Supervising Professional is, Contractor shall confirm with the manager of the Administering Service Area/Unit.

Contractor's Representative means **Andrew Sandzik** whose job title is **Vice President, Restoration**.

ARTICLE III - Time of Completion

- (A) The work to be completed under this Contract shall begin immediately on the date specified in the Notice to Proceed issued by the City.
- (B) The entire work for this Contract shall be completed within 90 consecutive

calendar days.

(C) Failure to complete all the work within the time specified above, including any extension granted in writing by the Supervising Professional, shall obligate the Contractor to pay the City, as liquidated damages and not as a penalty, an amount equal to \$500.00 for each calendar day of delay in the completion of all the work. If any liquidated damages are unpaid by the Contractor, the City shall be entitled to deduct these unpaid liquidated damages from the monies due the Contractor.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

ARTICLE IV - The Contract Sum

- (A) The City shall pay to the Contractor for the performance of the Contract, the unit prices as given in the Bid Form for the estimated bid total of: \$449,763.00
- (B) The amount paid shall be equitably adjusted to cover changes in the work ordered by the Supervising Professional but not required by the Contract Documents. Increases or decreases shall be determined only by written agreement between the City and Contractor.

ARTICLE V - Assignment

This Contract may not be assigned or subcontracted any portion of any right or obligation under this contract without the written consent of 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 this contract unless specifically released from the requirement, in writing, by the City.

ARTICLE VI - Choice of Law

This Contract shall be construed, governed, and enforced in accordance with the laws of the State of Michigan. By executing this Contract, the Contractor and the City agree to venue in a court of appropriate jurisdiction sitting within Washtenaw County for purposes of any action arising under this Contract. The parties stipulate that the venue referenced in this Contract is for convenience and waive any claim of non-convenience.

Whenever possible, each provision of the Contract will be interpreted in a manner as to be effective and valid under applicable law. The prohibition or invalidity, under applicable law, of any provision will not invalidate the remainder of the Contract.

ARTICLE VII - Relationship of the Parties

The parties of the Contract agree that it is not a Contract of employment but is a Contract to accomplish a specific result. Contractor is an independent Contractor performing services for the City. Nothing contained in this Contract shall be deemed to constitute any other relationship between the City and the Contractor.

Contractor certifies that it has no personal or financial interest in the project other than the compensation it is to receive under the Contract. Contractor certifies 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 or personal property taxes. City shall have the right to set off any such debt against compensation awarded for services under this Contract.

ARTICLE VIII - Notice

All notices given under this Contract shall be in writing, and shall be by personal delivery or by certified mail with return receipt requested to the parties at their respective addresses as specified in the Contract Documents or other address the Contractor may specify in writing. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; or (2) three days after mailing certified U.S. mail.

ARTICLE IX - Indemnification

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, in whole or in part, from any act or omission, which is in any way connected or associated with this Contract, by the Contractor or anyone acting on the Contractor's behalf under this Contract. Contractor shall not be responsible to indemnify the City for losses or damages caused by or resulting from the City's sole negligence. The provisions of this Article shall survive the expiration or earlier termination of this contract for any reason.

ARTICLE X - Entire Agreement

This Contract represents the entire understanding between the City and the Contractor and it supersedes all prior representations, negotiations, agreements, or understandings whether written or oral. Neither party has relied on any prior representations in entering into this Contract. No terms or conditions of either party's invoice, purchase order or other administrative document shall modify the terms and conditions of this Contract, regardless of the other party's failure to object to such form. This Contract shall be binding on and shall inure to the benefit of the parties to this Contract and their permitted successors and permitted assigns and nothing in this Contract, 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 Contract. This Contract may be altered, amended or modified only by written amendment signed by the City and the Contractor.

ARTICLE XI – Electronic Transactions

The City and Contractor agree that signatures on this Contract may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this Contract. This Contract may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

[Signatures are on the Following Page]

RAM CONSTRUCTION SERVICES

CITY OF ANN ARBOR

By:		By:	
Name:	Andrew Sandzik	Name:	Milton Dohoney Jr.
Title:	Vice President, Restoration	Title:	City Administrator
Date:		Date:	
		Approve	ed as to substance:
		By:	
		Name:	Derek Delacourt
		Title:	Community Services Area Administrator
		Date:	
		Approve	ed as to form:
		By:	
		Name:	Atleen Kaur
		Title:	City Attorney
		Date:	

(Signatures continue on following page)

CITY OF ANN ARBOR

By:	
Name:	
Title:	Mayor
Date:	
By:	
Name:	
Title:	City Clerk
Date:	

PERFORMANCE BOND

(1)			
()	of		(referred to as
(2)	"Surety"), are bound to the	e City of Ann Arbor, rincipal and Surety k and assigns, jointly a	
(3)	Act No. 213 of the Michigan	Public Acts of 1963, declared by the City	ven for that Contract in compliance with as amended, being MCL 129.201 <u>et seq</u> . to be in default under the Contract, the promptly:
	(a) complete the Contract i	n accordance with its	s terms and conditions; or
(4)	(b) obtain a bid or bids accordance with its terms a responsible bidder, arrange available, as work progres balance of the Contract prio which Surety may be liable	for submission to the nd conditions, and up for a Contract betwee ses, sufficient funds ce; but not exceeding hereunder, the amou	he City for completing the Contract in oon determination by Surety of the lowest een such bidder and the City, and make to pay the cost of completion less the g, including other costs and damages for
(4)	under the Contract.		ie Fincipal faity and promptly performs
(5)	Contract or to the work to b it shall in any way affect i	be performed thereun ts obligations on this alteration or addition	, alteration or addition to the terms of the oder, or the specifications accompanying s bond, and waives notice of any such n to the terms of the Contract or to the
(6)	Principal, Surety, and the electronically in lieu of an o original signatures that bind by facsimile and upon such	City agree that sign original signature and them to this bond. To delivery, the facsim	natures on this bond may be delivered d agree to treat electronic signatures as This bond may be executed and delivered ile signature will be deemed to have the delivered to the other party.
SIGNE	ED AND SEALED this	_ day of	, 202
(Name	e of Surety Company)	_	(Name of Principal)
•	, , ,		By
<u>(</u> S	ignature)	_	
14-			(Signature)
its <u>(</u> Titl	le of Office)	_	Its (Title of Office)
Appro	ved as to form:		Name and address of agent:
Atleen	Naur, City Attorney	_	

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LABOR AND MATERIAL BOND

(1)	
	of(referred to
	as "Principal"), and, a corporation
	duly authorized to do business in the State of Michigan, (referred to as "Surety"), are bound
	to the City of Ann Arbor, Michigan (referred to as "City"), for the use and benefit of claimants
	as defined in Act 213 of Michigan Public Acts of 1963, as amended, being MCL 129.201 <u>et</u>
	<u>seq</u> ., in the amount of
	\$, for the payment of which Principal and Surety bind themselves, their
	heirs, executors, administrators, successors and assigns, jointly and severally, by this bond.
(2)	The Principal has entered a written Contract with the Cityentitled
	, for RFP No; and this bond is
	given for that Contract in compliance with Act No. 213 of the Michigan Public Acts of 1963 as
	amended;
(3)	If the Principal fails to promptly and fully repay claimants for labor and material reasonably
	required under the Contract, the Surety shall pay those claimants.
(4)	Surety's obligations shall not exceed the amount stated in paragraph 1, and Surety shall have
	no obligation if the Principal promptly and fully pays the claimants.
(5)	Principal, Surety, and the City agree that signatures on this bond may be delivered
	electronically in lieu of an original signature and agree to treat electronic signatures as original
	signatures that bind them to this bond. This bond may be executed and delivered by facsimile
	and upon such delivery, the facsimile signature will be deemed to have the same effect as if
	the original signature had been delivered to the other party.
SIG	NED AND SEALED this day of, 202_
•	me of Surety Company) (Name of Principal)
Ву	By (Signature)
	(Signature)
	Its
(Title of Office) (Title of Office)

Approved as to form:

Name and address of agent:

Atleen Kaur, City Attorney

GENERAL CONDITIONS

Section 1 - Execution, Correlation and Intent of Documents

The contract documents shall be signed in 2 copies by the City and the Contractor.

The contract documents are complementary and what is called for by any one shall be binding. The intention of the documents is to include all labor and materials, equipment and transportation necessary for the proper execution of the work. Materials or work described in words which so applied have a well-known technical or trade meaning have the meaning of those recognized standards.

In case of a conflict among the contract documents listed below in any requirement(s), the requirement(s) of the document listed first shall prevail over any conflicting requirement(s) of a document listed later.

(1) Addenda in reverse chronological order; (2) Detailed Specifications; (3) Standard Specifications; (4) Plans; (5) General Conditions; (6) Contract; (7) Bid Forms; (8) Bond Forms; (9) Bid.

Section 2 - Order of Completion

The Contractor shall submit with each invoice, and at other times reasonably requested by the Supervising Professional, schedules showing the order in which the Contractor proposes to carry on the work. They shall include the dates at which the Contractor will start the several parts of the work, the estimated dates of completion of the several parts, and important milestones within the several parts.

Section 3 - Familiarity with Work

The Bidder or its representative shall make personal investigations of the site of the work and of existing structures and shall determine to its own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved, and all other factors affecting the work proposed under this Contract. The Bidder to whom this Contract is awarded will not be entitled to any additional compensation unless conditions are clearly different from those which could reasonably have been anticipated by a person making diligent and thorough investigation of the site.

The Bidder shall immediately notify the City upon discovery, and in every case prior to submitting its Bid, of every error or omission in the bidding documents that would be identified by a reasonably competent, diligent Bidder. In no case will a Bidder be allowed the benefit of extra compensation or time to complete the work under this Contract for extra expenses or time spent as a result of the error or omission.

Section 4 - Wage Requirements

Under this Contract, the Contractor shall conform to Chapter 14 of Title I of the Code of the City of Ann Arbor as amended; which in part states "...that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of

subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. At the request of the City, any contractor or subcontractor shall provide satisfactory proof of compliance with the contract provisions required by the Section.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. A sample Prevailing Wage Form is provided in the Appendix herein for reference as to what will be expected from contractors. Use of the Prevailing Wage Form provided in the Appendix section or a City-approved equivalent will be required along with wage rate interviews.

Where the Contract and the Ann Arbor City Ordinance are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used.

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 Contract 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 Contract 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.

Contractor agrees that all subcontracts entered into by the Contractor shall contain similar wage provision covering subcontractor's employees who perform work on this contract.

Section 5 - Non-Discrimination

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 Title IX 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.

Section 6 - Materials, Appliances, Employees

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation, and other facilities necessary or used for the execution and completion of the work. Unless otherwise specified, all materials incorporated in the permanent work shall be new, and both workmanship and materials shall be of the highest quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.

The Contractor shall at all times enforce strict discipline and good order among its employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned.

Adequate sanitary facilities shall be provided by the Contractor.

Section 7 - Qualifications for Employment

The Contractor shall employ competent laborers and mechanics for the work under this Contract. For work performed under this Contract, employment preference shall be given to qualified local residents.

Section 8 - Royalties and Patents

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringements of any patent rights and shall hold the City harmless from loss on account of infringement except that the City shall be responsible for all infringement loss when a particular process or the product of a particular manufacturer or manufacturers is specified, unless the City has notified the Contractor prior to the signing of the Contract that the particular process or product is patented or is believed to be patented.

Section 9 - Permits and Regulations

The Contractor must secure and pay for all permits, permit or plan review fees and licenses necessary for the prosecution of the work. These include but are not limited to City building permits, right-of-way permits, lane closure permits, right-of-way occupancy permits, and the like. The City shall secure and pay for easements shown on the plans unless otherwise specified.

The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the contract documents are at variance with those requirements, it shall promptly notify the Supervising Professional in writing, and any necessary changes shall be adjusted as provided in the Contract for changes in the work.

Section 10 - Protection of the Public and of Work and Property

The Contractor is responsible for the means, methods, sequences, techniques and procedures of construction and safety programs associated with the work contemplated by this contract. The Contractor, its agents or sub-contractors, shall comply with the "General Rules and Regulations for the Construction Industry" as published by the Construction Safety Commission of the State of Michigan and to all other local, State and National laws, ordinances, rules and regulations pertaining to safety of persons and property.

The Contractor shall take all necessary and reasonable precautions to protect the safety of the public. It shall continuously maintain adequate protection of all work from damage, and shall take all necessary and reasonable precautions to adequately protect all public and private property from injury or loss arising in connection with this Contract. It shall make good any damage, injury or loss to its work and to public and private property resulting from lack of reasonable protective precautions, except as may be due to errors in the contract documents, or caused by agents or

employees of the City. The Contractor shall obtain and maintain sufficient insurance to cover damage to any City property at the site by any cause.

In an emergency affecting the safety of life, or the work, or of adjoining property, the Contractor is, without special instructions or authorization from the Supervising Professional, permitted to act at its discretion to prevent the threatened loss or injury. It shall also so act, without appeal, if authorized or instructed by the Supervising Professional.

Any compensation claimed by the Contractor for emergency work shall be determined by agreement or in accordance with the terms of Claims for Extra Cost - Section 15.

Section 11 - Inspection of Work

The City shall provide sufficient competent personnel for the inspection of the work.

The Supervising Professional shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for access and for inspection.

If the specifications, the Supervising Professional's instructions, laws, ordinances, or any public authority require any work to be specially tested or approved, the Contractor shall give the Supervising Professional timely notice of its readiness for inspection, and if the inspection is by an authority other than the Supervising Professional, of the date fixed for the inspection. Inspections by the Supervising Professional shall be made promptly, and where practicable at the source of supply. If any work should be covered up without approval or consent of the Supervising Professional, it must, if required by the Supervising Professional, be uncovered for examination and properly restored at the Contractor's expense.

Re-examination of any work may be ordered by the Supervising Professional, and, if so ordered, the work must be uncovered by the Contractor. If the work is found to be in accordance with the contract documents, the City shall pay the cost of re-examination and replacement. If the work is not in accordance with the contract documents, the Co

Section 12 - Superintendence

The Contractor shall keep on the work site, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Supervising Professional. The superintendent will be responsible to perform all on-site project management for the Contractor. The superintendent shall be experienced in the work required for this Contract. The superintendent shall represent the Contractor and all direction given to the superintendent shall be binding as if given to the Contractor. Important directions shall immediately be confirmed in writing to the Contractor. Other directions will be confirmed on written request. The Contractor shall give efficient superintendence to the work, using its best skill and attention.

Section 13 - Changes in the Work

The City may make changes to the quantities of work within the general scope of the Contract at any time by a written order and without notice to the sureties. If the changes add to or deduct from the extent of the work, the Contract Sum shall be adjusted accordingly. All the changes shall be

executed under the conditions of the original Contract except that any claim for extension of time caused by the change shall be adjusted at the time of ordering the change.

In giving instructions, the Supervising Professional shall have authority to make minor changes in the work not involving extra cost and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Supervising Professional, and no claim for an addition to the Contract Sum shall be valid unless the additional work was ordered in writing.

The Contractor shall proceed with the work as changed and the value of the work shall be determined as provided in Claims for Extra Cost - Section 15.

Section 14 - Extension of Time

Extension of time stipulated in the Contract for completion of the work will be made if and as the Supervising Professional may deem proper under any of the following circumstances:

- (1) When work under an extra work order is added to the work under this Contract;
- (2) When the work is suspended as provided in Section 20;
- (3) When the work of the Contractor is delayed on account of conditions which could not have been foreseen, or which were beyond the control of the Contractor, and which were not the result of its fault or negligence;
- (4) Delays in the progress of the work caused by any act or neglect of the City or of its employees or by other Contractors employed by the City;
- (5) Delay due to an act of Government;
- (6) Delay by the Supervising Professional in the furnishing of plans and necessary information;
- (7) Other cause which in the opinion of the Supervising Professional entitles the Contractor to an extension of time.

The Contractor shall notify the Supervising Professional within 7 days of an occurrence or conditions which, in the Contractor's opinion, entitle it to an extension of time. The notice shall be in writing and submitted in ample time to permit full investigation and evaluation of the Contractor's claim. The Supervising Professional shall acknowledge receipt of the Contractor's notice within 7 days of its receipt. Failure to timely provide the written notice shall constitute a waiver by the Contractor of any claim.

In situations where an extension of time in contract completion is appropriate under this or any other section of the contract, the Contractor understands and agrees that the only available adjustment for events that cause any delays in contract completion shall be extension of the required time for contract completion and that there shall be no adjustments in the money due the Contractor on account of the delay.

Section 15 - Claims for Extra Cost

If the Contractor claims that any instructions by drawings or other media issued after the date of the Contract involved extra cost under this Contract, it shall give the Supervising Professional written notice within 7 days after the receipt of the instructions, and in any event before proceeding to execute the work, except in emergency endangering life or property. The procedure shall then be as provided for Changes in the Work-Section I3. No claim shall be valid unless so made.

If the Supervising Professional orders, in writing, the performance of any work not covered by the contract documents, and for which no item of work is provided in the Contract, and for which no unit price or lump sum basis can be agreed upon, then the extra work shall be done on a Cost-Plus-Percentage basis of payment as follows:

- (1) The Contractor shall be reimbursed for all reasonable costs incurred in doing the work, and shall receive an additional payment of 15% of all the reasonable costs to cover both its indirect overhead costs and profit;
- (2) The term "Cost" shall cover all payroll charges for employees and supervision required under the specific order, together with all worker's compensation, Social Security, pension and retirement allowances and social insurance, or other regular payroll charges on same; the cost of all material and supplies required of either temporary or permanent character; rental of all power-driven equipment at agreed upon rates, together with cost of fuel and supply charges for the equipment; and any costs incurred by the Contractor as a direct result of executing the order, if approved by the Supervising Professional;
- (3) If the extra is performed under subcontract, the subcontractor shall be allowed to compute its charges as described above. The Contractor shall be permitted to add an additional charge of 5% percent to that of the subcontractor for the Contractor's supervision and contractual responsibility;
- (4) The quantities and items of work done each day shall be submitted to the Supervising Professional in a satisfactory form on the succeeding day, and shall be approved by the Supervising Professional and the Contractor or adjusted at once;
- (5) Payments of all charges for work under this Section in any one month shall be made along with normal progress payments. Retainage shall be in accordance with Progress Payments-Section 16.

No additional compensation will be provided for additional equipment, materials, personnel, overtime or special charges required to perform the work within the time requirements of the Contract.

When extra work is required and no suitable price for machinery and equipment can be determined in accordance with this Section, the hourly rate paid shall be 1/40 of the basic weekly rate listed in the Rental Rate Blue Book published by Dataquest Incorporated and applicable to the time period the equipment was first used for the extra work. The hourly rate will be deemed to include all costs of operation such as bucket or blade, fuel, maintenance, "regional factors", insurance, taxes, and the like, but not the costs of the operator.

Section 16 - Progress Payments

The Contractor shall submit each month, or at longer intervals, if it so desires, an invoice covering work performed for which it believes payment, under the Contract terms, is due. The submission shall be to the City's Finance Department - Accounting Division. The Supervising Professional will, within 10 days following submission of the invoice, prepare a certificate for payment for the work in an amount to be determined by the Supervising Professional as fairly representing the acceptable work performed during the period covered by the Contractor's invoice. To insure the proper performance of this Contract, the City will retain a percentage of the estimate in accordance with Act 524, Public Acts of 1980. The City will then, following the receipt of the Supervising Professional's Certificate, make payment to the Contractor as soon as feasible, which is anticipated will be within 15 days.

An allowance may be made in progress payments if substantial quantities of permanent material have been delivered to the site but not incorporated in the completed work if the Contractor, in the opinion of the Supervising Professional, is diligently pursuing the work under this Contract. Such materials shall be properly stored and adequately protected. Allowance in the estimate shall be at the invoice price value of the items. Notwithstanding any payment of any allowance, all risk of loss due to vandalism or any damages to the stored materials remains with the Contractor.

In the case of Contracts which include only the Furnishing and Delivering of Equipment, the payments shall be; 60% of the Contract Sum upon the delivery of all equipment to be furnished, or in the case of delivery of a usable portion of the equipment in advance of the total equipment delivery, 60% of the estimated value of the portion of the equipment may be paid upon its delivery in advance of the time of the remainder of the equipment to be furnished; 30% of the Contract Sum upon completion of erection of all equipment furnished, but not later than 60 days after the date of delivery of all of the equipment to be furnished; and payment of the final 10% on final completion of erection, testing and acceptance of all the equipment to be furnished; but not later than 180 days after the date of delivery of all of the equipment to be unacceptable.

With each invoice for periodic payment, the Contractor shall enclose a Contractor's Declaration -Section 43, and an updated project schedule per Order of Completion - Section 2.

Section 17 - Deductions for Uncorrected Work

If the Supervising Professional decides it is inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made.

Section 18 - Correction of Work Before Final Payment

The Contractor shall promptly remove from the premises all materials condemned by the Supervising Professional as failing to meet Contract requirements, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute the work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work of other contractors destroyed or damaged by the removal or replacement.

If the Contractor does not remove the condemned work and materials within I0 days after written notice, the City may remove them and, if the removed material has value, may store the material

at the expense of the Contractor. If the Contractor does not pay the expense of the removal within 10 days thereafter, the City may, upon 10 days written notice, sell the removed materials at auction or private sale and shall pay to the Contractor the net proceeds, after deducting all costs and expenses that should have been borne by the Contractor. If the removed material has no value, the Contractor must pay the City the expenses for disposal within 10 days of invoice for the disposal costs.

The inspection or lack of inspection of any material or work pertaining to this Contract shall not relieve the Contractor of its obligation to fulfill this Contract and defective work shall be made good. Unsuitable materials may be rejected by the Supervising Professional notwithstanding that the work and materials have been previously overlooked by the Supervising Professional and accepted or estimated for payment or paid for. If the work or any part shall be found defective at any time before the final acceptance of the whole work, the Contractor shall forthwith make good the defect in a manner satisfactory to the Supervising Professional. The judgment and the decision of the Supervising Professional as to whether the materials supplied and the work done under this Contract comply with the requirements of the Contract shall be conclusive and final.

Section 19 - Acceptance and Final Payment

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Supervising Professional will promptly make the inspection. When the Supervising Professional finds the work acceptable under the Contract and the Contract fully performed, the Supervising Professional will promptly sign and issue a final certificate stating that the work required by this Contract has been completed and is accepted by the City under the terms and conditions of the Contract. The entire balance found to be due the Contractor, including the retained percentage, shall be paid to the Contractor by the City within 30 days after the date of the final certificate.

Before issuance of final certificates, the Contractor shall file with the City:

- (1) The consent of the surety to payment of the final estimate;
- (2) The Contractor's Affidavit in the form required by Section 44.

In case the Affidavit or consent is not furnished, the City may retain out of any amount due the Contractor, sums sufficient to cover all lienable claims.

The making and acceptance of the final payment shall constitute a waiver of all claims by the City except those arising from:

- (1) unsettled liens;
- (2) faulty work appearing within 12 months after final payment;
- (3) hidden defects in meeting the requirements of the plans and specifications;
- (4) manufacturer's guarantees.

It shall also constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.

Section 20 - Suspension of Work

The City may at any time suspend the work, or any part by giving 5 days notice to the Contractor in writing. The work shall be resumed by the Contractor within 10 days after the date fixed in the

written notice from the City to the Contractor to do so. The City shall reimburse the Contractor for expense incurred by the Contractor in connection with the work under this Contract as a result of the suspension.

If the work, or any part, shall be stopped by the notice in writing, and if the City does not give notice in writing to the Contractor to resume work at a date within 90 days of the date fixed in the written notice to suspend, then the Contractor may abandon that portion of the work suspended and will be entitled to the estimates and payments for all work done on the portions abandoned, if any, plus 10% of the value of the work abandoned, to compensate for loss of overhead, plant expense, and anticipated profit.

Section 21 - Delays and the City's Right to Terminate Contract

If the Contractor refuses or fails to prosecute the work, or any separate part of it, with the diligence required to insure completion, ready for operation, within the allowable number of consecutive calendar days specified plus extensions, or fails to complete the work within the required time, the City may, by written notice to the Contractor, terminate its right to proceed with the work or any part of the work as to which there has been delay. After providing the notice the City may take over the work and prosecute it to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any excess cost to the City. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the work, any materials, appliances and plant as may be on the site of the work and useful for completing the work. The right of the Contractor to proceed shall not be terminated or the Contractor charged with liquidated damages where an extension of time is granted under Extension of Time - Section 14.

If the Contractor is adjudged a bankrupt, or if it makes a general assignment for the benefit of creditors, or if a receiver is appointed on account of its insolvency, or if it persistently or repeatedly refuses or fails except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials, or if it fails to make prompt payments to subcontractors or for material or labor, or persistently disregards laws, ordinances or the instructions of the Supervising Professional, or otherwise is guilty of a substantial violation of any provision of the Contract, then the City, upon the certificate of the Supervising Professional that sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the Contractor 3 davs written notice, terminate this Contract. The City may then take possession of the premises and of all materials, tools and appliances thereon and without prejudice to any other remedy it may have, make good the deficiencies or finish the work by whatever method it may deem expedient, and deduct the cost from the payment due the Contractor. The Contractor shall not be entitled to receive any further payment until the work is finished. If the expense of finishing the work, including compensation for additional managerial and administrative services exceeds the unpaid balance of the Contract Sum, the Contractor and its surety are liable to the City for any excess cost incurred. The expense incurred by the City, and the damage incurred through the Contractor's default, shall be certified by the Supervising Professional.

Section 22 - Contractor's Right to Terminate Contract

If the work should be stopped under an order of any court, or other public authority, for a period of 3 months, through no act or fault of the Contractor or of anyone employed by it, then the Contractor may, upon 7 days written notice to the City, terminate this Contract and recover from the City payment for all acceptable work executed plus reasonable profit.

Section 23 - City's Right To Do Work

If the Contractor should neglect to prosecute the work properly or fail to perform any provision of this Contract, the City, 3 days after giving written notice to the Contractor and its surety may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost from the payment due to the Contractor.

Section 24 - Removal of Equipment and Supplies

In case of termination of this Contract before completion, from any or no cause, the Contractor, if notified to do so by the City, shall promptly remove any part or all of its equipment and supplies from the property of the City, failing which the City shall have the right to remove the equipment and supplies at the expense of the Contractor.

The removed equipment and supplies may be stored by the City and, if all costs of removal and storage are not paid by the Contractor within 10 days of invoicing, the City upon 10 days written notice may sell the equipment and supplies at auction or private sale, and shall pay the Contractor the net proceeds after deducting all costs and expenses that should have been borne by the Contractor and after deducting all amounts claimed due by any lien holder of the equipment or supplies.

Section 25 - Responsibility for Work and Warranties

The Contractor assumes full responsibility for any and all materials and equipment used in the construction of the work and may not make claims against the City for damages to materials and equipment from any cause except negligence or willful act of the City. Until its final acceptance, the Contractor shall be responsible for damage to or destruction of the project (except for any part covered by Partial Completion and Acceptance - Section 26). The Contractor shall make good all work damaged or destroyed before acceptance. All risk of loss remains with the Contractor until final acceptance of the work (Section 19) or partial acceptance (Section 26). The Contractor is advised to investigate obtaining its own builders risk insurance.

The Contractor shall guarantee the quality of the work for a period of one year. The Contractor shall also unconditionally guarantee the quality of all equipment and materials that are furnished and installed under the contract for a period of one year. At the end of one year after the Contractor's receipt of final payment, the complete work, including equipment and materials furnished and installed under the contract, shall be inspected by the Contractor and the Supervising Professional. Any defects shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. Any defects that are identified prior to the end of one year shall also be inspected by the Contractor and the Supervising Professional and shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. The Contractor shall assign all manufacturer or material supplier warranties to the City prior to final payment. The assignment shall not relieve the Contractor of its obligations under this paragraph to correct defects.

Section 26 - Partial Completion and Acceptance

If at any time prior to the issuance of the final certificate referred to in Acceptance and Final Payment - Section 19, any portion of the permanent construction has been satisfactorily completed, and if the Supervising Professional determines that portion of the permanent construction is not required for the operations of the Contractor but is needed by the City, the Supervising Professional shall issue to the Contractor a certificate of partial completion, and immediately the City may take over and use the portion of the permanent construction described in the certificate, and exclude the Contractor from that portion.

The issuance of a certificate of partial completion shall not constitute an extension of the Contractor's time to complete the portion of the permanent construction to which it relates if the Contractor has failed to complete it in accordance with the terms of this Contract. The issuance of the certificate shall not release the Contractor or its sureties from any obligations under this Contract including bonds.

If prior use increases the cost of, or delays the work, the Contractor shall be entitled to extra compensation, or extension of time, or both, as the Supervising Professional may determine.

Section 27 - Payments Withheld Prior to Final Acceptance of Work

The City may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any certificate to the extent reasonably appropriate to protect the City from loss on account of:

- (1) Defective work not remedied;
- (2) Claims filed or reasonable evidence indicating probable filing of claims by other parties against the Contractor;
- (3) Failure of the Contractor to make payments properly to subcontractors or for material or labor;
- (4) Damage to another Contractor.

When the above grounds are removed or the Contractor provides a Surety Bond satisfactory to the City which will protect the City in the amount withheld, payment shall be made for amounts withheld under this section.

Section 28 - Contractor's Insurance

(1) The Contractor shall procure and maintain during the life of this Contract, including the guarantee period and during any warranty work, such insurance policies, including those set forth below, 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 any work under this contract, Contractor shall provide to the City documentation satisfactory to the City, through City-approved means (currently myCOI), demonstrating it has obtained the required policies and endorsements. The certificates of insurance endorsements and/or copies of

policy language shall document that the Contractor satisfies the following minimum requirements. Contractor shall add 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).

Required insurance policies include:

(a) 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

(b) 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 named as an additional insured. There shall be no added exclusions or limiting endorsements specifically for the following coverages: Products and Completed Operations, Explosion, Collapse and Underground coverage or Pollution. Further there shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. 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
\$1,000,000	Personal and Advertising Injury
\$2,000,000	Products and Completed Operations Aggregate, which,
	notwithstanding anything to the contrary herein, shall be
	maintained for three years from the date the Project is completed.

- (c) Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, 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 named as 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.
- (d) Umbrella/Excess Liability Insurance shall be provided to apply 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.
- (2) Insurance required under subsection (1)(b) and (1)(c) 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.

- (3) 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 un-gualified 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(s); name and address of the agent(s) or authorized representative(s); name(s), email address(es), 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.
 - (4) 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.
 - (5) City reserves the right to require additional coverage and/or coverage amounts as may be included from time to time in the Detailed Specifications for the Project.
- (6) The provisions of General Condition 28 shall survive the expiration or earlier termination of this contract for any reason.

Section 29 - Surety Bonds

Bonds will be required from the successful bidder as follows:

- (1) A Performance Bond to the City of Ann Arbor for the amount of the bid(s) accepted;
- (2) A Labor and Material Bond to the City of Ann Arbor for the amount of the bid(s) accepted.

Bonds shall be executed on forms supplied by the City in a manner and by a Surety Company authorized to transact business in Michigan and satisfactory to the City Attorney.

Section 30 - Damage Claims

The Contractor shall be held responsible for all damages to property of the City or others, caused by or resulting from the negligence of the Contractor, its employees, or agents during the progress of or connected with the prosecution of the work, whether within the limits of the work or elsewhere. The Contractor must restore all property injured including sidewalks, curbing, sodding, pipes, conduit, sewers or other public or private property to not less than its original condition with new work.

Section 31 - Refusal to Obey Instructions

If the Contractor refuses to obey the instructions of the Supervising Professional, the Supervising Professional shall withdraw inspection from the work, and no payments will be made for work performed thereafter nor may work be performed thereafter until the Supervising Professional shall have again authorized the work to proceed.

Section 32 - Assignment

Neither party to the Contract shall assign the Contract without the written consent of the other. The Contractor may assign any monies due to it to a third party acceptable to the City.

Section 33 - Rights of Various Interests

Whenever work being done by the City's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Supervising Professional, to secure the completion of the various portions of the work in general harmony.

The Contractor is responsible to coordinate all aspects of the work, including coordination of, and with, utility companies and other contractors whose work impacts this project.

Section 34 - Subcontracts

The Contractor shall not award any work to any subcontractor without prior written approval of the City. The approval will not be given until the Contractor submits to the City a written statement concerning the proposed award to the subcontractor. The statement shall contain all information the City may require.

The Contractor shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by it.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and all other contract documents applicable to the work of the subcontractors and to give the Contractor the same power to terminate any subcontract that the City may exercise over the Contractor under any provision of the contract documents.

Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the City.

Section 35 - Supervising Professional's Status

The Supervising Professional has the right to inspect any or all work. The Supervising Professional has authority to stop the work whenever stoppage may be appropriate to insure the proper execution of the Contract. The Supervising Professional has the authority to reject all work and materials which do not conform to the Contract and to decide questions which arise in the execution of the work.

The Supervising Professional shall make all measurements and determinations of quantities. Those measurements and determinations are final and conclusive between the parties.

Section 36 - Supervising Professional's Decisions

The Supervising Professional shall, within a reasonable time after their presentation to the Supervising Professional, make decisions in writing on all claims of the City or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the contract documents.

Section 37 - Storing Materials and Supplies

Materials and supplies may be stored at the site of the work at locations agreeable to the City unless specific exception is listed elsewhere in these documents. Ample way for foot traffic and drainage must be provided, and gutters must, at all times, be kept free from obstruction. Traffic on streets shall be interfered with as little as possible. The Contractor may not enter or occupy with agents, employees, tools, or material any private property without first obtaining written permission from its owner. A copy of the permission shall be furnished to the Supervising Professional.

Section 38 - Lands for Work

The Contractor shall provide, at its own expense and without liability to the City, any additional land and access that may be required for temporary construction facilities or for storage of materials.

Section 39 - Cleaning Up

The Contractor shall, as directed by the Supervising Professional, remove at its own expense from the City's property and from all public and private property all temporary structures, rubbish and waste materials resulting from its operations unless otherwise specifically approved, in writing, by the Supervising Professional.

Section 40 - Salvage

The Supervising Professional may designate for salvage any materials from existing structures or underground services. Materials so designated remain City property and shall be transported or stored at a location as the Supervising Professional may direct.

Section 41 - Night, Saturday or Sunday Work

No night or Sunday work (without prior written City approval) will be permitted except in the case of an emergency and then only to the extent absolutely necessary. The City may allow night work which, in the opinion of the Supervising Professional, can be satisfactorily performed at night. Night work is any work between 8:00 p.m. and 7:00 a.m. No Saturday work will be permitted unless the Contractor gives the Supervising Professional at least 48 hours but not more than 5 days notice of the Contractor's intention to work the upcoming Saturday.

Section 42 - Sales Taxes

Under State law the City is exempt from the assessment of State Sales Tax on its direct purchases. Contractors who acquire materials, equipment, supplies, etc. for incorporation in City projects are not likewise exempt. State Law shall prevail. The Bidder shall familiarize itself with the State Law and prepare its Bid accordingly. No extra payment will be allowed under this Contract for failure of the Contractor to make proper allowance in this bid for taxes it must pay.

Section 43

CONTRACTOR'S DECLARATION

I hereby declare that I have not, during the period ______, 20___, to _____, 20 , performed any work, furnished any materials, sustained any loss, damage or delay, or otherwise done anything in addition to the regular items (or executed change orders) set forth in the Contract titled _____, for which I shall ask, demand, sue for, or claim compensation or extension of time from the City, except as I hereby make claim for additional compensation or extension of time as set forth on the attached itemized statement. I further declare that I have paid all payroll obligations related to this Contract that have become due during the above period and that all invoices related to this Contract received more than 30 days prior to this declaration have been paid in full except as listed below.

There is/is not (Contractor please circle one and strike one as appropriate) an itemized statement attached regarding a request for additional compensation or extension of time.

Contractor

Date

By _____ (Signature)

Its _____(Title of Office)

Past due invoices, if any, are listed below.

Section 44

CONTRACTOR'S AFFIDAVIT

The undersigned Contractor, _______, represents that on ______, 20____, it was awarded a contract by the City of Ann Arbor, Michigan to _______ under the terms and conditions of a Contract titled ______. The Contractor represents that all work has now been accomplished and the Contract is complete.

The Contractor warrants and certifies that all of its indebtedness arising by reason of the Contract has been fully paid or satisfactorily secured; and that all claims from subcontractors and others for labor and material used in accomplishing the project, as well as all other claims arising from the performance of the Contract, have been fully paid or satisfactorily settled. The Contractor agrees that, if any claim should hereafter arise, it shall assume responsibility for it immediately upon request to do so by the City of Ann Arbor.

The Contractor, for valuable consideration received, does further waive, release and relinquish any and all claims or right of lien which the Contractor now has or may acquire upon the subject premises for labor and material used in the project owned by the City of Ann Arbor.

This affidavit is freely and voluntarily given with full knowledge of the facts.

Contractor	Date
By (Signature)	
Its (Title of Office)	
Subscribed and sworn to before me, on the	his day of, 20 County, Michigan
Notary Public County, MI My commission expires on:	0.00000, 100000gen

STANDARD SPECIFICATIONS

All work under this contract shall be performed in accordance with the Public Services Department Standard Specifications in effect at the date of availability of the contract documents stipulated in the Bid. All work under this Contract which is not included in these Standard Specifications, or which is performed using modifications to these Standard Specifications, shall be performed in accordance with the Detailed Specifications included in these contract documents.

Standard Specifications are available online:

http://www.a2gov.org/departments/engineering/Pages/Engineering-and-Contractor-Resources.aspx

DETAILED SPECIFICATIONS

CONTRACT SPECIFICATIONS

Veterans Park Ice Arena Improvements



Prepared for: City of Ann Arbor

Procurement Unit 301 E. Huron Street Ann Arbor, MI 48104



Prepared By: Hubbell, Roth & Clark, Inc. Project No. 20210971 November 2022

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SECTION 01300

SUBMITTALS

PART 1 GENERAL

1.1 SCHEDULE FOR SUBMISSION

- A. Submittal procedures
- B. Submittal Review
- C. Proposed Products list
- D. Shop Drawings, Product Data, and Samples
- E. Manufacture's installation instructions

1.2 RELATED SECTIONS

- A. General Conditions
- B. Standard Specifications
- C. Section 01400 Quality Control
- D. Section 01700 Contract Closeout

1.3 SCHEDULE FOR SUBMISSION

- A. Prior to submitting any shop drawings, product data, portfolios, samples, etc. the Contractor shall prepare a Schedule of Submittals, listing all items in the project which he will submit for review by the Engineer. Identify all critical path submittals.
- B. The summary shall be submitted within twenty (20) calendar days after receipt of Notice to Proceed and shall be updated once per month thereafter.
- C. The summary shall include the proposed dates for submittal for each item for control purposes. The summary shall be prepared in coordination with the Project Schedule for Construction and adequate time shall be allowed therein for review and possible resubmittal.
- D. The summary and schedule for submittals shall not relieve the Contractor of his obligation to comply with specification requirements for items not listed on the schedule.
- E. Nothing herein shall be construed as allowing additional time for completion of the project in the event resubmittal is required for shop drawings or the other items to be submitted.

1.4 SUBMITTAL PROCEDURES

- A. Transmit each submittal with Engineer approved transmittal form.
- B. Sequentially number the transmittal form. Re-submittals shall have original specification number and a sequential alphabetic suffix.
- C. Identify Project, Contractor, Subcontractor and supplier; pertinent drawing and detail number, and specification section number, as appropriate.
- D. Apply Contractor's stamp, signed or initialed certifying that review, verification of Products required, field dimensions, adjacent construction Work, and coordination of information, is in accordance with the requirements of the Work and Contract Documents.
- E. Schedule submittals to expedite the Project, and deliver to the Engineer in a manner to allow sufficient time for review and processing by the Engineer so as to not cause delays in the Work. Coordinate submission of related items.
- F. All drawings, information and documentation shall be prepared and submitted with all words in the English language and dimensions in American units. No foreign language or metric units will be permitted.
- G. Identify variations from Contract Documents and Products and system limitations which may be detrimental to successful performance of the completed work.
- H. Provide space for Contractor and Engineer review stamps.
- I. Revise and resubmit submittals as required and identify all changes made since previous submission.
- J. Distribute copies of reviewed submittals to all concerned and related parties. Instruct parties to promptly report any inability to comply with provisions.
- K. The Engineer reserves the right to refuse to check or review any submittal of a subcontractor or manufacturer which is not presented in compliance with the foregoing requirements.
- L. Electronic Submittals:
 - 1. All electronic submittals shall follow the procedures outlined above.
 - 2. Electronic submittal procedures are only applicable to Shop Drawings and product data submittals.
 - 3. Electronic submittals shall be made in .PDF format
 - 4. Reviewed submittals shall be returned in PDF electronic format for the Contractor's printing and distribution.

1.5 SUBMITTAL REVIEW

A. All subcontractors and manufacturers' drawings shall first be sent directly to the Contractor, who shall keep a record of the drawing numbers and the dates of receipt. The Contractor shall check thoroughly all such drawings, as regards measurements, sizes of members, materials, and all other details to assure himself that they conform to the intent of the drawings and the specification, and shall promptly return to the subcontractors and/or manufacturers for correction such drawings as are found inaccurate or otherwise in error.

- B. The Engineer will review the Contractor's, subcontractors' and manufacturers' drawings within a reasonable time after receipt thereof and will return one copy endeavoring to indicate, by notation thereon or written instructions, any correction which may be necessary to meet the Contract requirements. The Contractor shall then review such notations and/or instructions and if he concurs therein, shall make or have made such required corrections, and shall, when so noted on the drawings or requested by the Engineer, resubmit corrected drawings to the Engineer as soon as possible, for final review. Such further review by the Engineer will be limited to the corrections only, and the Contractor, by such re-submission shall be held to have represented that such drawings contain no other alterations, additions or deletions, unless the Contractor (in writing) directs the Engineer's specific attention to same. Should the Contractor question, or dissent from, such notations and/or instructions, he shall so inform the Engineer and request further clarification before resubmitting the drawings.
- C. The review of Contractor's, subcontractors', and manufacturers' drawings by the Engineer is for coordination and assistance, and the Engineer does not thereby assume responsibility for errors or omissions. Such errors or omissions must be made good by the Contractor, irrespective of the receipt, review of the drawings by the Engineer, and even though the work is done in accordance with such drawings.

1.6 PROPOSED PRODUCTS LIST

- A. Within 15 days after date of Owner-Contractor Agreement submit list of all major products proposed for use, including those previously called for to be submitted in the Proposal, with name of manufacturer, trade name, and model number of each product.
- B. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.7 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

- A. While the contract drawings and specifications propose to be complete in all respects as to layout, type of equipment and materials, they are not intended to serve as detailed installation drawings and the preparation of such drawings required or necessary for this purpose, or to set equipment accurately, shall be the responsibility of the Contractor.
- B. These Contract Documents shall be supplemented by other drawings, product data, samples and portfolios of all equipment, components, apparatus, materials, anchors/fasteners, etc. furnished by the Contractor and reviewed by the Engineer. All such supplementary drawings or instructions are intended to be consistent with the Contract Documents, true developments thereof and reasonably inferable therefrom. Therefore, no extra charge will be allowed on a claim that particular supplemental drawings or instructions differed from the Contract documents, incurring extra work, unless the Contractor has first brought the matter, in writing, to the Engineer's attention for proper adjustment before starting on the work covered by such and has received from the Engineer an order in writing to so proceed.

- C. These original and supplementary drawings constitute the drawings according to which the work is to be done. The Contractor shall keep at the site of the work, copies of all drawings and specifications and shall at all times give the Engineer or Owner access thereto.
- D. Shop Drawings are drawings, diagrams, schedules other data specifically prepared for the Work by the Contractor or a subcontractor, Subcontractor manufacturer, supplier or distributor to illustrate some portion of the Work.
- E. Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of these submittals is to demonstrate for those portions of the Work for which submittals are required the way the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.
- F. Product Data are illustrations, standard schedules, performance charts, instructions, catalog cuts, brochures, diagrams, materials lists and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.
- G. Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.
- H. The Contractor shall review, approve, and submit to the Engineer, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents requested by the Engineer or Owner or otherwise necessary for the proper execution of the work, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors. Submittals made by the Contractor which are not required by the Contract Documents may be returned without action.
- I. The Contractor shall perform no portion of the Work requiring submittal, resubmittal, and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been reviewed by the Engineer. Such Work shall be in accordance with reviewed submittals.
- J. By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents that the Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or contained within such submittals with the requirements of the Work and of the Contract Documents.
- K. The Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Engineer's review of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Engineer in writing of such deviation at the time of submittal and the Engineer has given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in the Shop Drawings, Product Data, Samples or similar submittals by the Engineer's review thereof, as the Engineer's review in intended to cover compliance with the Contract Document and not to enter into every detail of the shop work.
- L. The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those required by the Engineer on previous submittals.

- M. When professional certification of performance criteria of materials systems or equipment is required by the Contract Documents, the Engineer shall be entitled to rely upon the accuracy and completeness of such calculations and certifications.
- N. Shop Drawings
 - 1. Submit in the form of legible PDFs
- O. Product Data
 - 1. Submit in the form of legible PDFs
 - 2. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information unique to this Project.
 - 3. Product data shall include an index sheet containing a space at least 5" x 8" for review stamps and notes.
 - 4. After review distribute in accordance with the Submittal Procedures article above and provide copies for record documents described in Section 01700 CONTRACT CLOSEOUT.
- P. Samples
 - 1. Submit samples to illustrate functional and aesthetic characteristics of the Product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
 - 2. Submit samples of sufficient size and representative of finishes indicating textures, and patterns for Owner selection.
 - 3. Include identification on each sample, with full Project information.
 - 4. Submit the number of samples specified in individual specification sections; two of which will be retained by the Engineer.
 - 5. Reviewed samples which may be used in the work are indicated in individual specification sections.

1.8 MANUFACTURER INSTALLATION INSTRUCTIONS

- A. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, operating, maintaining and finishing to the Engineer in quantities specified for Product Data.
- B. Identify conflicts between manufacturer's instructions and contract documents.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01400

QUALITY CONTROL

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Quality assurance control of installation.
- B. Tolerances
- C. References.

1.2 RELATED SECTIONS

- A. Section 01300 Submittals: Submission of manufacturers' instructions and certificates.
- B. Section 01600 Material and Equipment: Requirements for material and product quality.

1.3 QUALITY ASSURANCE - CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, Products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of specified quality.
- F. Secure Products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.4 TOLERANCES

- A. Monitor tolerance control of installed Products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.
- C. Adjust Products to appropriate dimensions; position before securing Products in place.

1.5 REFERENCES

- A. For Products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current on date specified in the individual specification sections, except where a specific date is established by code.
- C. Obtain copies of standards where required by product specification sections.
- D. The contractual relationship, duties, and responsibilities of the parties in Contract nor those of the Architect/Engineer shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.6 MANUFACTURERS' FIELD SERVICES AND REPORTS

- A. When specified in individual specification sections, require material or Product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment and as applicable, and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
- C. Submit report in duplicate within 30 days of observation to Engineer for information.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01600

MATERIALS, PRODUCTS AND EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. General Provisions.
- B. Transportation and handling.
- C. Storage and protection.
- D. "Or Equal" Clause
- E. Product options.
- F. Substitutions.

1.2 RELATED SECTIONS

A. Section 01400 - Quality Control: Product quality monitoring.

1.3 GENERAL PROVISIONS

- A. Products (including all materials, machinery, equipment, and systems) shall be carefully designed and installed to insure that all required functions are adequately performed within specified degrees of precision and that each unit shall operate with every other part, furnished or existing, to provide a complete integrated system which shall operate to the satisfaction of the Engineer. Any changes or revisions of existing work made necessary by the type and dimensions of furnished products shall be made at the expense of the Contractor, and he shall furnish detail drawings showing such changes or revisions for the approval of the Engineer.
- B. Submit to the Engineer ample proof that each and every part of the products to be furnished is of a reliable make and of a type which has been in successful operation within the continental United States. Installation of any experimental or untried type of apparatus, material, or machinery will not be allowed.
- C. All materials, equipment, and accessories shall be new and unused and shall be essentially the products of a manufacturer regularly engaged in the production of such material or equipment and shall essentially duplicate material or equipment that has been in satisfactory operation at least 5 years.
- D. The owner reserves the right to reject any material or equipment manufacturer who, although he meets the above requirements, does not provide satisfactory evidence indicating adequate and prompt post-installation repair and maintenance service as required to suit the operational

requirements of Owner. Items of any one type of materials or equipment shall be the product of a single manufacturer.

1.4 TRANSPORTATION AND HANDLING

- A. All parts of the equipment shall be carefully crated to facilitate shipping and handling. The crates shall be constructed to completely protect the equipment and shall be sufficiently strong to permit lifting and skidding without requiring additional bracing or reinforcement.
 - 1. Packages or materials showing evidence of damage or contamination, regardless of cause, will be rejected.
- B. Transport and handle Products in accordance with manufacturer's instructions.
- C. Transport and handle all materials in such a manner to avoid breakage, inclusion of foreign materials, and/or damage by water or other causes.
- D. Deliver packaged materials in original unopened containers. Packages or materials showing evidence of damage or contamination regardless of cause will be rejected.
- E. Promptly inspect shipments to ensure that Products comply with requirements, quantities are correct, and Products are undamaged.
- F. Repair or replace all items damaged or broken as a result of the Contractor's operation at no cost to the Owner.
- G. When specified in the individual Section, equipment shall be made available for conditional acceptance by the Engineer at the factory prior to shipment.
- H. Equipment shall not be delivered unless it can be immediately incorporated into the work or proper storage facilities are available.
- I. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.
- J. Notify the Engineer at least two days in advance of the delivery of equipment.

1.5 STORAGE AND PROTECTION

- A. All materials and equipment shall be handled in a manner to avoid damage, breakage, soiling, disfigurement, shock, denting, marring of surfaces or delay in the completion of the work.
 - 1. The Contractor shall coordinate delivery of equipment with his construction program so that an undue amount of storage space is not required. Space for contractor's use will be designated by the Owner.
 - 2. The Contractor shall exercise care in the protection of materials and equipment furnished and/or installed under this contract while they are in storage at the site and during and after installation prior to final acceptance.
 - 3. The Contractor shall repair or replace, without cost to the Owner and to the satisfaction of the Owner, all items damaged or broken as a result of his operation.
 - 4. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.

- 5. All materials which have been stored shall be subject to retest and shall meet the requirements of these Specifications at the time they are used in the work and at the time of final acceptance of the work.
- 6. Arrange storage of Products to permit access for inspection. Periodically inspect to verify Products are undamaged and are maintained in acceptable condition.
- B. Store and protect Products in accordance with manufacturers' instructions, with seals and labels intact and legible.
 - 1. Store sensitive Products in weather tight, climate controlled enclosures.
 - 2. Cover Products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation or potential degradation of Product.
 - 3. All machined surfaces of the equipment subject to corrosion shall be protected by coating with grease immediately after finishing.
 - 4. All flanges shall be protected prior to installation by means of wooden flanges bolted in place.
 - 5. Pump casings shall be thoroughly drained of all water.
 - 6. All unpainted steel surfaces shall be prevented from rusting by an Owner approved method.
 - 7. Plate and sheet metal work shall be handled and stored with care to prevent permanent deformations or crimps in the material.
 - 8. Whenever the shop coat of protective paint is damaged, spot coating shall be made immediately to prevent rusting.
 - 9. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
 - 10. Equipment and materials stored outdoors shall be placed on sloped supports, up at least six inches above the ground.

1.6 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Any Product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers with the provision "No Substitutions": Products of manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for "or Equal" or Substitutions: Submit a request for substitution for any manufacturer not named in accordance with the following article and Section 01300.

1.7 "OR EQUAL" CLAUSE

A. Specifying an article, material, or piece of equipment by reference to a proprietary product or by using the name of a manufacturer or vendor followed by the clause "or equal" shall be understood to indicate the type, function, minimum standard of design, efficiency, and quality desired and shall not be construed in such a manner as to exclude products of comparable quality, design, and efficiency.

- B. Comparable products shall be capable of performing equal function and shall be compatible with other equipment, materials, or systems to which they connect or will become an integral part of.
- C. The clause "or approved equal" which may appear elsewhere in the documents shall mean the same as "or equal".
- D. Wherever in the documents an article, material, or piece of equipment is defined by specifying a proprietary product or using the name of a manufacturer or vendor the term "or equal" if not included shall be implied.
- E. Substitutions of "or equal" products are subject to approval of the Engineer.

1.8 SUBSTITUTIONS OR ALTERNATIVES

- A. For the purposes of this Specification, Alternatives and Substitutions are the same.
- B. Refer also to Section 01300.
- C. Document each alternative identified on the Bid Form with complete data substantiating compliance of proposed Substitution with Contract Documents.
- D. Each request shall include the credit amount for the alternative. This amount must include all cost adjustments to any other trade as a result of this alternative.
- E. A request constitutes a representation that the Contractor:
 - 1. Has investigated proposed Product and determined that it meets or exceeds the quality level of the specified Product.
 - 2. Will provide the same warranty for the Substitution as for the specified Product.
 - 3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
 - 4. Waives claims for additional costs or time extension which may subsequently become apparent.
- F. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- G. Substitution Submittal Procedure:
 - 1. Submit three copies of request for Substitution for consideration. Limit each request to one proposed Substitution.
 - 2. Submit shop drawings, product data, and certified test results attesting to the proposed Product equivalence. Also provide information required by Section 01300 for substitutions. Burden of proof is on proposer.
 - 3. The Engineer will notify Contractor in writing of decision to accept or reject request.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01700

CONTRACT CLOSEOUT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Closeout procedures.
- B. Final cleaning.
- C. Adjusting.
- D. Project record documents.
- E. Substantial completion.
- F. Warranties.

1.2 RELATED SECTIONS

A. Section 01300 - Submittals.

1.3 SUBMITTALS

- A. As-Built Drawings
- B. Final Change Order
- C. Final Application for Payment, including
 - 1. Waiver of Liens
 - 2. Contractor's Affidavit
 - 3. Contractors Declaration
 - 4. Release of Surety
- D. Manufacturers extended warranties, with the date of Substantial Completion and warranty end date identified
- E. Confirmation that all submittals were approved, and that no outstanding re-submittals are required
- F. Satisfactory evidence that all claims have been resolved

1.4 CLOSEOUT PROCEDURES

A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Engineer's review.

- B. Provide submittals to Engineer that are required by governing or other authorities.
- C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- D. Submit As-Built drawings to Engineer for scanning. Engineer to provide project AutoCAD Record Drawings

1.5 FINAL CLEANING

- A. Complete final cleaning and restoration prior to final project inspection.
- B. Remove all temporary labels, stains and foreign substances. Wash or clean by approved methods all surfaces on which dust and dirt has collected.
- C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- D. Clean debris from drainage systems.
- E. Clean site; sweep paved areas, rake clean landscaped surfaces.
- F. Remove waste and surplus materials, rubbish, and construction facilities from the site.
- G. Restore disturbed area. Lawn area may be seeded unless otherwise noted. Paved area shall be restored to their original condition, compatible with the surrounding area, using like materials and workmanship.
- H. Touchup painted surface. Clean and repaint with matching color all scratched, marred or otherwise damaged painted surfaces of all equipment and enclosures.

1.6 ADJUSTING

A. Adjust operating Products and equipment to ensure smooth and unhindered operation.

1.7 PROJECT RECORD DOCUMENTS

- A. Maintain on site, one set of the following record documents:
 - 1. Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other modifications to the Contract.
 - 5. Reviewed Shop Drawings, Product Data, and Samples.
 - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. As the work progresses, keep a complete and accurate record of all changes in the Contract Documents (including Drawings, Shop Drawings, Product Data, and Specifications) indicating the work as actually installed. All changes shall be neatly shown on blueline prints of the drawings effected or in the specifications which shall be kept at the job site for inspection by the Owner and the Engineer.

- C. Ensure entries are complete and accurate, enabling future reference by Owner.
- D. Store record documents separate from documents used for construction.
- E. Record information concurrent with construction progress.
- F. Specifications: Legibly mark and record at each Product section description of actual Products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda, Field Modifications and Change Orders.
- G. Record Documents and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Measured depths of foundations, slabs, platforms in relation to finish main floor datum.
 - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - 3. Measured locations of internal utilities, conduits and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - 4. Field changes of dimension and detail.
 - 5. Details not on original Contract drawings.
- H. On completion of the work, prior to the Contractor's application for final payment and as a condition to its approval by the Engineer and Owner, the Contractor shall arrange such site records in order in accordance with the various sections of the specifications bind them together and index them and deliver them to the Engineer. In addition the Contractor shall request a complete set of reproducible contract Drawings, and transfer all as-built revisions and changes to them and deliver them to the Engineer. These drawings shall be dated and marked "As-Built".
- I. All public authorities or agencies having jurisdiction over any part of the work shall be determined, and all the requirements of these authorities or agencies with respect to but not limited to inspection, permits, fees, approval, and the like regardless of whether they are listed above or not shall be met.
- J. Submit all documents to Engineer for approval prior to submittal of final Application for Payment.

1.8 SUBSTANTIAL COMPLETION

- A. Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so the Owner can occupy and utilize the facilities for its intended use.
- B. When the Contractor considers that the Work, or portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Engineer a comprehensive list of items to be completed or corrected. The Contractor shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with

the Contract Documents. Upon receipt of the Contractor's list, the Engineer will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Engineers inspection discloses any item, whether or not included on the Contractor's list, which is not in accordance with the requirements of the Contract Documents, the Contractor shall complete or correct such item upon notification by the Engineer. The Contractor shall then submit a request for another inspection by the Engineer to determine Substantial Completion. When the Work or designated portion thereof is substantially complete, the Engineer will prepare a Certificate of Substantial Completion which shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contract shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate.

1.9 WARRANTIES

- A. Provide duplicate copies of all extended warranties.
- B. Execute and assemble transferable warranty documents from Subcontractors, suppliers, and manufacturers with a Table of Contents.
- C. Submit warranty documents prior to final Application for Payment.
- D. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within 10 days after acceptance, listing date of acceptance as start of warranty period.
- E. All parts of the work or equipment which is in the opinion of the Engineer prove defective in material, workmanship, or operation within the warranty period shall be removed and replaced or repaired in a manner satisfactory to the Engineer and at no cost to the Owner.
- F. Any service material or equipment required because of the defect shall be supplied without charge.
- G. All work specified to be designed by the Contractor shall be guaranteed to perform as specified.
- H. The Warranty period shall be one year from the date of Substantial Completion unless:
 - 1. A greater period is specified elsewhere.
 - 2. Owner chooses to take over and use a portion of the Work as provided for in the Specifications; in which case the warranty shall be one year from said takeover and use.
- I. Equipment or work replaced and/or repaired during the warranty period shall be guaranteed for one year from the date of acceptance of the repair or replacement or until expiration of the original warranty period whichever comes later.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 02050 -

DEMOLITION WORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Demolition, removal, and disposal off-site of masonry block, concrete and all other debris created by the Work.
- B. Demolition removal and disposal of piping, equipment, and wiring as needed unless same is called to be turned over to the Owner, disconnected and left in-place, or left in operation.

1.2 REGULATORY REQUIREMENTS

- A. Conform to all applicable Federal, State, County, and local codes and ordinances for demolition of structures, safety of adjacent structures, dust control, runoff control, disposal, and erosion control.
- B. Submit Regulatory Notifications for demolition work to authorities as required to perform the Work.
- C. Obtain required permits from authorities.
- D. The cost of all permits shall be included as part of the bid.
- E. Do not close or obstruct public roadways, sidewalks, and hydrants without permits.

1.3 PROJECT CONDITIONS

- A. Immediately after the contract is awarded, the Contractor will meet with the Owner's Engineer and prepare a schedule setting actual dates for starting and completion of the various parts of the work.
- B. The Contractor shall provide all toilet facilities required for the use of his personnel on the site. Any water, compressed air electric power, telephone, or other services required by this Contractor, will be furnished by him, the cost of which shall be included in his bid.
- C. Protection:
 - 1. Perform all demolition and removal work to prevent damage or injury to structures, occupants thereof and adjacent features which might result from falling debris or other causes, and so as not to interfere with the use, and free and safe passage to and from adjacent structures.
 - 2. The Contractor shall provide and install all necessary shoring and bracing required to support walls and other parts of existing buildings during demolition. All Contractor installed fences, barricades, shoring, etc. not essential for the further protection of property or personnel at the completion of the demolition work shall be removed by the Contractor.

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- 3. Closing or obstructing of roadways, sidewalks, and passageways adjacent to the work by the placement or storage of materials will not be permitted, and all operations shall be conducted with a minimum interference to traffic on these ways.
- 4. Erect and maintain barriers, lights, sidewalk sheds, and other necessary protective devices.
- 5. Repair damage to facilities to remain, or to any property belonging to the Owner or occupants of the facilities.
- D. It is the intent of this Section that the Demolition Work shall be complete whether or not specifically specified herein or shown on the Drawings, and all costs associated with the Demolition Work shall be included in the bid price.

1.4 COORDINATION OF THE WORK

- A. Contractor shall submit for approval, before commencing work:
 - 1. A detailed sequence of demolition and removal work to ensure uninterruption of Owner's operation.
 - 2. Notify and schedule all demolition work through the Owner.

1.5 TESTING AND SAMPLING

- A. The Contractor will provide and pay for all testing and sampling if required by this Section.
- B. The Contractor shall provide full access to all areas to an Independent Testing Laboratory to perform tests.

1.6 CONTRACTOR'S SUPERVISION

- A. Contractor's responsibility shall include a completely equipped first aid kit, provided and maintained at the site in a clean orderly condition and shall be readily accessible at all times to all the Contractor's employees.
- B. The Contractor shall designate certain employees who are properly instructed to be in charge of first aid. Contractor is fully responsible for site safety during the execution of the work.
- C. At least one such employee shall be available whenever work is in progress at the demolition site.
- D. Telephone call lists for summoning aids from outside sources, such as doctors, ambulances, pulmotor and rescue squads, shall be conspicuously posted at the site.

1.7 MAINTENANCE OF SERVICE

- A. The premature breaking up and removal of public sidewalks, streets, and other related pavements is not a part of this contract.
 - 1. The Contractor shall be responsible for the above items.
 - 2. To assure minimum damage during period of demolition and removal of existing buildings, the Contractor shall protect same with heavy timbers, meeting Engineer's approval, or use other means meeting Engineer's approval to maintain existing and construction traffic patterns, as required.

- B. Upon removal of all protection materials from the above described Municipality property, all shall be intact and capable of use by the public or other trades without recourse to repairs, the expense of which, if necessary, will be paid by the Contractor.
- C. Any damage by the Contractor to items not scheduled for demolition, shall be immediately repaired to a condition "As-Good-As", or "Better" at the Contractors sole expense.

1.8 SCHEDULING

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A. Schedule all work for protection, demolition removal, and salvage to comply with project requirements.

1.9 PROJECT RECORD DOCUMENTS

- A. On completion of project, prior to receiving final payment, the Contractor shall prepare record Drawings, or record reproducible copies of the Contract Drawings provided to him by the Engineer, showing locations of existing utilities which are either left in operation or abandoned in place and exposed by his work.
- B. Accurately record locations of capped utilities, and subsurface obstructions encountered.

PART 2 GENERAL

NOT USED

PART 3 EXECUTION

- 3.1 PREPARATION
 - A. Prior to submitting his bid, the Contractor shall visit the site and determine the nature of the work.
 - B. Provide, erect, and maintain temporary barriers and security devices at the site.
 - C. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

3.2 DEMOLITION REQUIREMENTS

- A. Conduct demolition to minimize interference with existing and adjacent structures, occupancies, and roadways.
- B. Conduct demolition operations to ensure safety of all persons and to prevent damage to existing structures and utilities, construction in progress, and other property.
- C. Cease operations immediately if adjacent structures appear to be in danger. Notify Engineer immediately. Do not resume operations until permission has been granted by the Owner.

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- D. Conduct operations with minimum interference to public or private accesses. Maintain protected egress and access at all times.
- E. All dumpsters supplied by the Contractor for use during the project shall be covered with tarps at all time when not being actively used.

3.3 PARTIAL DEMOLITION

- A. Restrict demolition to comply with the limits of removal as shown on the Drawings.
- B. Protect adjacent members from any and all damage due to demolition operations.
- C. Sawcutting of concrete for removal shall stop at corners. Sawcutting shall not continue beyond limit of removal (corner) at either face of concrete.

3.4 DEMOLITION

- A. The work included under this Section consists of providing all labor, equipment, and services required to remove and dispose of demolition items as shown on the Drawings.
- B. The items of demolition and removal shown are not necessarily intended to be a complete detail of each and every item of work.
 - 1. The Contractor is required to carefully review the Drawings for all trades, as well as examine the actual sites of the various items of work so that he may include all items of demolition and removal work under this section.
 - 2. The Owner does not guarantee that the work was constructed in accordance with any drawings that are available.
 - 3. The Contractor shall make his own independent determination of the work by visiting and surveying the work sites.
 - 4. All information relative to existing conditions is shown to assist the Contractor in evaluation of the work, but with no specific representation, either expressed or implied, as to completeness or accuracy. The Contractor shall be responsible for any deductions or conclusions made on the basis of this information and that of any additional site inspections, if made.
- C. The Drawings are not intended to indicate precise details of all interconnecting items to be removed nor exact locations of items for demolition and removal.
 - 1. The Contractor shall visit the site prior to bidding to ascertain the scope of work and shall, if necessary, request written clarification of any items in doubt.
- D. Bracing and shoring shall be provided as necessary to prevent collapse due to removals of any part of any of the structures concerned with under this contract.
 - 1. Bracing and shoring shall be removed promptly when no longer required.
 - 2. Care shall be taken not to impair retained portions of existing structures during demolition and removal operations.
- E. All debris, scrap, etc., removed during demolition operations, unless specified otherwise hereinafter, shall become the Contractor's property and be legally disposed of or recycled promptly off the Owner's property.
 - 1. Only one day's accumulation of debris will be permitted at any job site.

CITY OF ANN ARBOR VETERAN'S PARK ICE ARENA IMPROVEMENTS

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- F. Cleaning wastes (liquid or solid) shall be stored in container suitable for the type of material, tested and disposed of in an offsite facility that is appropriate for the type of tested material.
- G. Trucks hauling loose materials from or to the sites shall be tight and their loads trimmed to prevent spillage on public streets.
 - 1. The Contractor shall promptly clean streets dirtied by any cause arising from his operations.
- H. Concrete: Concrete may be recycled if there are no visible reinforcement bars. If concrete is stained, it must be tested prior to recycling and disposed of in accordance with the test results.
- I. Care shall be taken that dust and debris do not in any way impair or damage the Owner's machinery or plant that has to be salvaged or remain in place.
 - 1. The work of this section shall take into consideration the protection of employees, buildings, machinery, and equipment.
 - 2. In line with this requirement, all necessary dust and weather protection, of a type meeting with the approval of the Owner, shall be provided for the time required, and promptly removed when no longer required.

3.5 DISPOSAL AND RECYCLING FACILITIES

- A. Materials that are transported from the building shall be transported by a transporter who meets applicable requirements of State and Federal law.
 - 1. The material shall be contained and transported in a manner that meets all applicable requirements of State and Federal law.

3.6 WORK INCLUDED

- A. All debris shall be removed as directed by the Owner and disposed of off-site at the Contractor's expense.
- B. The Contractor shall be responsible for taking all necessary measures for safely removing, storing, transporting and disposal of materials.

END OF SECTION

Hubbell, Roth & Clark, Inc. Job No. 20210971

02132A - Lead Paint Inspection Report

City of Ann Arbor Veterans Memorial Park Indoor Ice Arena List by Material

Lead Inspection

FS#	FS Description	Homogeneous Area Description	Color	Pb Results (% by weight)
2	Skate Rental	Brick	White	Not Sampled
15	Referee Locker Room	Cinderblock	Beige	<0.010%
16	Locker Room #4	Cinderblock	Beige	<0.010%
19	Maintenance Office Hall	Cinderblock	Beige	<0.010%
27	Ice Rink	Cinderblock	Blue	0.11%
23	Northwest Team Office	Cinderblock	Red	<0.010%
4	Lobby	Cinderblock	Red	<0.010%
10	Café	Cinderblock	Red	<0.010%
23	Northwest Team Office	Cinderblock	White	0.68%
1	Office	Cinderblock	White	0.68%
2	Skate Rental	Cinderblock	White	0.68%
3	Concessions	Cinderblock	White	0.68%
10	Café	Cinderblock	White	0.68%
11	Locker Room #1	Cinderblock	White	0.68%
12	Locker Room #2	Cinderblock	White	0.68%
13	Skate Sharpening Room	Cinderblock	White	0.68%
14	Rink Storage	Cinderblock	White	0.68%
19	Maintenance Office Hall	Cinderblock	White	0.68%
20	Zamboni Room	Cinderblock	White	0.68%
22	Northwest Foyer	Cinderblock	White	0.68%
24	Northeast Foyer	Cinderblock	White	0.68%
7	Custodial Closet	Cinderblock	White	0.68%
8	Women's Restroom	Cinderblock	White	0.68%
9	Men's Restroom	Cinderblock	White	0.68%
17	Mechanical Room	Cinderblock	White	0.68%
18	Maintenance Office	Cinderblock	White	0.68%
25	Northeast Team Office	Cinderblock	White	0.68%
27	Ice Rink	Cinderblock	White	0.68%
4	Lobby	Cinderblock	White	0.68%
16	Locker Room #4	Cinderblock	White	0.68%
17	Mechanical Room	Concrete Floor	Gray	<0.010%
27	Ice Rink	Concrete Floor	Gray	<0.010%
1	Office	Concrete Floor	No Paint	NA
1	Office	Concrete Floor	No Paint	NA
3	Concessions	Concrete Floor	No Paint	NA
4	Lobby	Concrete Floor	No Paint	NA
7	Custodial Closet	Concrete Floor	No Paint	NA
8	Women's Restroom	Concrete Floor	No Paint	NA
9	Men's Restroom	Concrete Floor	No Paint	NA
10	Café	Concrete Floor	No Paint	NA
11	Locker Room #1	Concrete Floor	No Paint	NA
12	Locker Room #2	Concrete Floor	No Paint	NA
13	Skate Sharpening Room	Concrete Floor	No Paint	NA

FS#	FS Description	Homogeneous Area Description	Color	Pb Results (% by weight)
14	Rink Storage	Concrete Floor	No Paint	NA
15	Referee Locker Room	Concrete Floor	No Paint	NA
16	Locker Room #4	Concrete Floor	No Paint	NA
18	Maintenance Office	Concrete Floor	No Paint	NA
19	Maintenance Office Hall	Concrete Floor	No Paint	NA
20	Zamboni Room	Concrete Floor	No Paint	NA
22	Northwest Foyer	Concrete Floor	No Paint	NA
23	Northwest Team Office	Concrete Floor	No Paint	NA
24	Northeast Foyer	Concrete Floor	No Paint	NA
25	Northeast Team Office	Concrete Floor	No Paint	NA
5	Conference Room	Drywall	White	0.059%
22	Northwest Foyer	Drywall	White	0.059%
1	Office	Drywall	White	0.059%
2	Skate Rental	Drywall	White	0.059%
3	Concessions	Drywall	White	0.059%
4	Lobby	Drywall	White	0.059%
6	Administrative Office	Drywall	White	0.059%
13	Skate Sharpening Room	Drywall	White	0.059%
14	Rink Storage	Drywall	White	0.059%
24	Northeast Foyer	Drywall	White	0.059%
6	Administrative Office	Metal Deck	Black	Not Sampled
20	Zamboni Room	Metal Deck	Gray	0.140%
8	Women's Restroom	Metal Deck	Gray	0.140%
9	Men's Restroom	Metal Deck	Gray	0.140%
13	Skate Sharpening Room	Metal Deck	Gray	0.140%
14	Rink Storage	Metal Deck	Gray	0.140%
15	Referee Locker Room	Metal Deck	Gray	0.140%
16	Locker Room #4	Metal Deck	Gray	0.140%
17	Mechanical Room	Metal Deck	Gray	0.140%
19	Maintenance Office Hall	Metal Deck	Gray	0.140%
24	Northeast Foyer	Metal Deck	White	0.57%
1	Office	Metal Deck	White	0.57%
2	Skate Rental	Metal Deck	White	0.57%
3	Concessions	Metal Deck	White	0.57%
4	Lobby	Metal Deck	White	0.57%
5	Conference Room	Metal Deck	White	0.57%
7	Custodial Closet	Metal Deck	White	0.57%
10	Café	Metal Deck	White	0.57%
11	Locker Room #1	Metal Deck	White	0.57%
12	Locker Room #2	Metal Deck	White	0.57%
18	Maintenance Office	Metal Deck	White	0.57%
22	Northwest Foyer	Metal Deck	White	0.57%
23	Northwest Team Office	Metal Deck	White	0.57%

FS#	FS Description	Homogeneous Area Description	Color	Pb Results (% by weight)
25	Northeast Team Office	Metal Deck	White	0.57%
19	Maintenance Office Hall	Metal Door	Blue	0.016%
14	Rink Storage	Metal Door	Blue	0.016%
15	Referee Locker Room	Metal Door	Blue	0.016%
16	Locker Room #4	Metal Door	Blue	0.016%
22	Northwest Foyer	Metal Door	Blue	0.016%
24	Northeast Foyer	Metal Door	Blue	0.016%
1	Office	Metal Door	Brown	Not Sampled
17	Mechanical Room	Metal Door	Gray	Not Sampled
23	Northwest Team Office	Metal Door	Red	0.15%
2	Skate Rental	Metal Door	Red	0.15%
5	Conference Room	Metal Door	Red	0.15%
6	Administrative Office	Metal Door	Red	0.15%
7	Custodial Closet	Metal Door	Red	0.15%
8	Women's Restroom	Metal Door	Red	0.15%
9	Men's Restroom	Metal Door	Red	0.15%
11	Locker Room #1	Metal Door	Red	0.15%
12	Locker Room #2	Metal Door	Red	0.15%
13	Skate Sharpening Room	Metal Door	Red	0.15%
17	Mechanical Room	Metal Door	Red	0.15%
18	Maintenance Office	Metal Door	Red	0.15%
20	Zamboni Room	Metal Door	Red	0.15%
18	Maintenance Office	Metal Door	White	0.010%
17	Mechanical Room	Metal Door	White	0.010%
25	Northeast Team Office	Metal Door	White	0.010%
11	Locker Room #1	Metal Door Frame	Black	<0.010%
1	Office	Metal Door Frame	Black	<0.010%
2	Skate Rental	Metal Door Frame	Black	<0.010%
5	Conference Room	Metal Door Frame	Black	<0.010%
6	Administrative Office	Metal Door Frame	Black	<0.010%
7	Custodial Closet	Metal Door Frame	Black	<0.010%
8	Women's Restroom	Metal Door Frame	Black	<0.010%
9	Men's Restroom	Metal Door Frame	Black	<0.010%
12	Locker Room #2	Metal Door Frame	Black	<0.010%
17	Mechanical Room	Metal Door Frame	Black	<0.010%
19	Maintenance Office Hall	Metal Door Frame	Blue	0.083%
13	Skate Sharpening Room	Metal Door Frame	Blue	0.083%
14	Rink Storage	Metal Door Frame	Blue	0.083%
15	Referee Locker Room	Metal Door Frame	Blue	0.083%
16	Locker Room #4	Metal Door Frame	Blue	0.083%
22	Northwest Foyer	Metal Door Frame	Blue	0.083%
24	Northeast Foyer	Metal Door Frame	Blue	0.083%
17	Mechanical Room	Metal Door Frame	Green	Not Sampled

FS#	FS Description	Homogeneous Area Description	Color	Pb Results (% by weight)
23	Northwest Team Office	Metal Door Frame	Red	<0.010%
17	Mechanical Room	Metal Door Frame	Red	<0.010%
20	Zamboni Room	Metal Door Frame	Red	<0.010%
18	Maintenance Office	Metal Door Frame	White	0.045%
25	Northeast Team Office	Metal Door Frame	white	0.045%
27	Ice Rink	Metal I-Beam	Blue	<0.010%
23	Northwest Team Office	Metal I-Beam	Red	1.20%
4	Lobby	Metal I-Beam	Red	1.20%
23	Northwest Team Office	Metal I-Beam	White	0.76%
22	Northwest Foyer	Metal I-Beam	White	0.76%
24	Northeast Foyer	Metal I-Beam	White	0.76%
25	Northeast Team Office	Metal I-Beam	White	0.76%
4	Lobby	Metal Trim	Black	0.042%
5	Conference Room	Metal Trim	Black	0.042%
27	Ice Rink	Wood Bleacher	Gray	0.10%

SECTION 04100

MORTAR AND MASONRY GROUT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Mortar and grout for masonry.
- B. Repointing of existing masonry where called for on the Drawings or specified.

1.2 RELATED SECTIONS

- A. Section 01400 Quality Control.
- B. Section 04300 Unit Masonry System: Installation of mortar and grout.

1.3 REFERENCES

- A. TMS 402 Building Code Requirements for Masonry Structures.
- B. TMS 602 Specifications for Masonry Structures.
- C. ASTM C91 Masonry Cement.
- D. ASTM C144 Aggregate for Masonry Mortar.
- E. ASTM C150 Portland Cement.
- F. ASTM C207 Hydrated Lime for Masonry Purposes.
- G. ASTM C270 Mortar for Unit Masonry.
- H. ASTM C387 Packaged, Dry, Combined Materials, for Mortar and Concrete.
- I. ASTM C404 Aggregates for Masonry Grout.
- J. ASTM C476 Grout for Masonry.
- K. ASTM C780 Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry.
- L. ASTM C1019 Method of Sampling and Testing Grout.
- M. ASTM C1072 Method for Measurement of Masonry Flexural Bond Strength.
- N. ASTM E447 Test Methods for Compressive Strength of Masonry Prisms.
- O. ASTM E518 Test Method for Flexural Bond Strength of Masonry.

P. IMIAC (International Masonry Industry All-Weather Council) - Recommended Practices and Guide Specifications for Cold Weather Masonry Construction.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Include design mix, indicating the proportion specifications of the mix per ASTM C270.
- C. Samples: Submit two samples of mortar, illustrating mortar color and color range.
- D. Reports: Submit reports on mortar indicating conformance of mortar to property requirements of ASTM C270, component mortar materials to requirements of ASTM C270 and test and evaluation reports to ASTM C780.
- E. Reports: Submit reports on grout indicating conformance of component grout materials to requirements of ASTM C476 and test and evaluation reports to ASTM C1019.
- F. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with TMS 402 and TMS 602.
- B. Maintain one copy of each document on site.
- 1.6 DELIVERY, STORAGE, AND HANDLING
 - A. Deliver, store, protect, and handle products to site under provisions of Section 01600.
 - B. Maintain packaged materials clean, dry, and protected against dampness, freezing, and foreign matter.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Cold Weather Requirements: IMIAC Recommended Practices and Guide Specifications for Cold Weather Masonry Construction.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.
- C. Environmental requirements shall meet the Michigan Building Code requirements, Section 2104 Construction, for both construction and protection.

PART 2 PRODUCTS

2.1 MATERIALS

A. Portland Cement: ASTM C150, Type I, gray-white.

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- 1. Use all white cement as applicable to achieve color match to existing (cleaned) mortar.
- B. Hydrated Lime: ASTM C207, Type S.
- C. Water: Clean and potable.
- D. For pigmented mortar, use a colored cement formulation as required to produce the color indicated or as selected from manufacturer's standard formulations.
 - 1. Pigments shall not exceed 10% of Portland cement by weight for mineral oxides nor 2% for carbon black.
 - 2. Pigments shall not exceed 5% of mortar cement or masonry cement by weight for mineral oxides nor 1% for carbon black.
- E. Bagged Masonry Cements.

2.2 ADMIXTURES

- A. No admixtures shall be used without the expressed written approval of the Engineer.
- B. It is not the intent of the Engineer to allow the use of admixtures.

2.3 MORTAR MIXES

A. Mortar for Load Bearing Walls and Partitions: ASTM C270, Type S using the Proportion specification.

2.4 MORTAR MIXING

- A. Thoroughly mix mortar ingredients in accordance with ASTM C270 in quantities needed for immediate use.
- B. Maintain sand uniformly damp immediately before the mixing process.
- C. Do not use anti-freeze compounds to lower the freezing point of mortar.
- D. If water is lost by evaporation, re-temper only within two hours of mixing.
- E. Use mortar within two hours after mixing at temperatures of 90 degrees F (32 degrees C), or two-and-one-half hours at temperatures under 50 degrees F (10 degrees C).

2.5 GROUT MIXES

A. Bond Beams, Lintels and other areas that may be called for on the Drawings: 2,000 psi (14 MPa) strength at 28 days; 8-10 inches (200-250 mm) slump; mixed in accordance with ASTM C476, fine grout.

2.6 GROUT MIXING

A. Thoroughly mix grout ingredients in quantities needed for immediate use in accordance with ASTM C476 Fine grout.

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B. Do not use anti-freeze compounds to lower the freezing point of grout.

2.7 MIX TESTS

- A. Test mortar and grout in accordance with Section 01400.
- B. Testing of Mortar Mix: In accordance with ASTM C780 for compressive strength, consistency, mortar aggregate ratio, water content, air content, splitting tensile and strength.
- C. Testing of Grout Mix: In accordance with ASTM C1019 for compressive strength and slump.

2.8 REPOINTING SPECIFICATIONS

- A. Deteriorated mortar joints in existing Building masonry, and other areas that may be shown on the Drawings, shall be cleaned out and refilled with fresh mortar.
- B. All new mortar installed as part of this work shall match the color of the adjacent mortar for the area being worked on, unless it is being painted.
- C. Joints shall be considered deteriorated if they are eroded back 1/4 inch or more from the face of the masonry units; mortar has fallen out of the joint; hairline cracks run through the mortar; or the bond between mortar and masonry unit is broken.
 - 1. Refer to sheet A-1 for repointing quantities.
- D. Raking The Old Mortar Joints:

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- 1. Mortar joints should be raked out to at least 1/2 inch depth or, if the joint is more than 1/2 inch thick, to a depth as great as the thickness of the mortar joint.
- 2. If the mortar is still unsound at 1/2 inch, the joint shall be cut deeper.
- 3. All unsound mortar shall be removed without disturbing the brick.
- E. Mortar may be removed with a hand-held grinder, a small mason's chisel, or a special raking tool.
 - 1. If the grinder is used to rake vertical joints, care shall be taken not to cut the brick in the next course above or below the joint.
 - 2. Before repointing, brush all loose fragments and dust from the joint or flush them out with a stream of water.
- F. Repointing mortar should closely match the existing mortar in strength, hardness, color, and texture.
- G. Test the existing mortar to see what mix proportions were used.
 - Type N mortar may be used if the original mortar cannot be duplicated.
 - a. Type N mortar should be made from 1 part Portland cement, 1 part Type S hydrated lime, and 4 ½ to 6 parts sand.
 - 2. The mortar ingredients shall be high quality.
 - a. Portland cement (gray or white) shall meet the requirements of ASTM C 150, Type I or IA.
 - b. Hydrated mason's lime should meet the requirements of ASTM C 207, Type S. Hydraulic quicklime.
 - c. Sand should meet ASTM C 5 and C 144 requirements, respectively.

- d. Do not use admixtures.
- 3. To compensate for shrinkage, a prehydration process shall be used.
 - a. Mix the dry ingredients with only enough water to produce a damp, unworkable mix that retains its form when pressed into a ball.
 - b. Keep the mortar in this damp condition for 1 to 2 hours and then add the remaining water required.
 - c. Mortar for repointing should be somewhat drier than mortar used to lay masonry units.
 - d. This drier mix is easier to place:
 - e. It doesn't flow to the bottom of the joint after it's been pushed into the joint with the repointer's trowel.
- 4. To see if the color of the new mortar matches the color of the old mortar, test a sample area in an inconspicuous spot before repointing the entire job.
 - a. Use a garden hose to soak a portion of the wall.
 - b. The color of the new mix should match the darker color of the wetted old mortar.
 - c. Minor adjustments, such as adding or subtracting sand or cement, may be necessary (but they must stay within the limits set by ASTM C 270 for the type of mortar selected).
 - d. A record shall be kept of the exact proportions so the same color can be reproduced in other batches throughout the job.
- 5. Ordinary gray or white mortars can be retempered as needed within the first 2 ½ hours after they're mixed.
- 6. Colored mortars shall not be retempered.

PART 3 EXECUTION

- 3.1 EXAMINATION
 - A. Request inspection of spaces to be grouted.

3.2 INSTALLATION

- A. Install mortar in accordance with ASTM C270.
- B. Mortar:
 - 1. "Measurement of materials for mortar shall be by volumetric measure and be controlled and accurately maintained. Measurement by "Shovel full" shall not be permitted."
 - 2. Mortar shall be retempered as required to maintain consistency. Dispose off site of mortar which has begun to stiffen, set or which is over 2-1/2 hours old.
 - 3. Follow color manufacturer's recommendations for re-temper colored mortar to avoid color mis-match."
- C. Work grout into masonry cores and cavities to eliminate voids.
- D. Do not install grout in lifts greater than 16 inches (400 mm) (two CMU courses without consolidating grout by rodding.

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- E. Do not displace reinforcement while placing grout.
- F. Remove excess mortar from grout spaces.

3.3 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed in accordance with the Structural Tests and Special Inspections in TMS 602, refer to Table 4.
- B. Test and evaluate mortar in accordance with ASTM C780.
- C. Test and evaluate grout in accordance with ASTM C1019.

END OF SECTION

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SECTION 04300

UNIT MASONRY SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Concrete masonry units (CMU).
- B. Reinforcement, anchorage, and accessories.

1.2 PRODUCTS INSTALLED BUT NOT FURNISHED UNDER THIS SECTION

A. Section 04100 – Mortar and Masonry Grout: Mortar and grout.

1.3 REFERENCES

- A. TMS 402 Building Code Requirements for Masonry Structures.
- B. TMS 602 Specifications For Masonry Structures.
- C. ASTM A82 Cold-Drawn Steel Wire for Concrete Reinforcement.
- D. ASTM A123 Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products.
- E. ASTM A167 Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- F. ASTM A525 Steel Sheet, Zinc Coated, (Galvanized) by the Hot-Dip Process.
- G. ASTM A580 Stainless and Heat-Resisting Steel Wire.
- H. ASTM A615 Deformed and Plain Billet Steel Bars for Concrete Reinforcement.
- I. ASTM A641 Zinc-Coated (Galvanized) Carbon Steel Wire.
- J. ASTM C90 Load-Bearing Concrete Masonry Units.
- K. IMIAC International Masonry Industry All-Weather Council: Recommended Practices and Guide Specification for Cold Weather Masonry Construction.
- L. UL Fire Resistance Directory.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide data for masonry units and fabricated wire reinforcement.

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- C. Product Data: Provide data for masonry accessories, cleaning solution, dovetail anchors, flashing, joint filler, masonry mat, weep hole material, etc.
- D. Samples: Submit one sample of block units to illustrate color, texture and rib depth.
- E. Manufacturer's Certificate: Certify that all masonry units covered by this specification meet or exceed all appropriate, referenced ASTM Specification requirements.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with TMS 402 and TMS 602.
- B. Maintain one copy of each document on site.
- C. Environmental requirements shall meet the Michigan Building Code requirements, Section 2104 Construction, for both construction and protection.

1.6 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

1.7 PRE-INSTALLATION CONFERENCE

A. Convene one week prior to commencing work of this section.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, protect and handle products to site under provisions of Section 01600.

1.9 ENVIRONMENTAL REQUIREMENTS

- A. Cold Weather Requirements: IMIAC Recommended Practices and Guide Specifications for Cold Weather Masonry Construction.
- B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.

1.10 COORDINATION

A. Coordinate the masonry work with other improvements on this project.

PART 2 PRODUCTS

2.1 CONCRETE MASONRY UNITS

A. All masonry block units on the project shall be uniform in color. Units that are specified to receive pigment shall have the color uniform all the way through the unit.

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- B. Color for integrally colored units used in the building(s) shall be synthetic iron oxide, dry granulated pigments. Color shall be selected by the Owner from the manufacturers complete color palette, provide custom color as required. CMU color, texture, and module to be a direct match to the existing CMU (after cleaning) at the building. Provide full size sample for review/approval.
- C. Solid Load-Bearing Block Units (CMU): medium weight, ASTM C-90.
- D. Integrally Colored Split Faced Ribbed Units: Nominal modular size of 12" (10" cores with 2" flutes) x 16" x 8" high shown having a split face on one side of masonry block as shown on Drawings. Provide special units for 90 degree corners.

2.2 REINFORCEMENT AND ANCHORAGE

- A. Single Wythe Joint Reinforcement: 2 wire, ladder type; steel wire, hot dip galvanized to ASTM A153 Class B2 after fabrication, 9 gage (3.7 mm) side rods with 9 gage (3.7 mm) cross ties.
 - 1. Approved Manufacturers:
 - a. Hohmann & Barnard, Inc.
 - b. Wire-Bond
 - c. Or other Engineer approved equal.

2.3 MORTAR AND GROUT

A. Mortar and Grout: As specified in Section 04100.

2.4 ACCESSORIES

- A. Joint Filler (Backer Rod): Refer to Drawings.
- B. Control Joint Filler: unless otherwise noted on the drawings, provide 3/8" thick, 3" wide, closed cell neoprene strip gasket. Use two 3" strips at CMU wall, for installed width of 6".
- C. Cleaning Solution:
 - 1. Cleaning solution shall be as recommended by the cleaning solution manufacturer from their line of Masonry Cleaning Products.
 - 2. Approved manufacturers are Diedrich Technologies or ProSoCo.
 - 3. Manufacturer's printed recommendations and cleaning procedures shall be strictly followed.
 - 4. Submit Manufacturer's recommendations and procedures as part of the shop drawing submittals.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine conditions for compliance with requirements for installation tolerances and other conditions affecting performance.
 - 1. Verify that foundations are within tolerances specified.

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- 2. Verify that reinforcing dowels are properly placed.
- 3. Verify that the structural steel frame and miscellaneous metal work is complete, plumb, secured and properly located to allow masonry work to be installed as detailed and with adequate clearances.
- B. Foundation and steel frame discrepancies:
 - 1. Notify the Architect Engineer and Owner's Representative in writing of discrepancies.
 - 2. Foundation and/or steel frame discrepancies: Do not proceed with masonry work until conditions have been corrected.
 - 3. Foundation discrepancies affecting the masonry work shall be resolved by Foundation Contractor, the Masonry Contractor and the Owner Representative without Owner's extra cost.
 - 4. Steel Frame discrepancies affecting the masonry work shall be resolved by the Steel Frame contractor, the Masonry Contractor, and the Owner's Representative without Owner's extra cost.
- C. Verify that field conditions are acceptable and are ready to receive work. The Engineer shall be notified of any conditions not suitable to receive the Unit Masonry work.
- D. Verify items provided by other sections of work are properly sized and located.

3.2 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied to other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.3 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Lay out work carefully in advance to make joints, both horizontal and vertical, fit the openings with a minimum of cutting.
 - 1. Provide joints of uniform width. Form corners as true 90 degree angles unless otherwise shown.
 - 2. Exposed units shall be free from chips on faces and exposed edges, and from broken corners.
- C. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

D. Concrete Masonry Units:

- 1. Bond: Stack to match existing.
- 2. Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
- 3. Mortar Joints:
 - a. Lay up block units on a bed joint in a beveled peak away from the cavity to minimize mortar protrusions into the cavity.
 - b. Do not furrow bed joints, butter ends of stretchers, and sides of headers if used, with mortar before laying.

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- c. Fill vertical joints with mortar. Construct head joints by pushing units tightly into mortar against adjoining unit.
- d. Lay units with joints of uniform width, approximately 3/8 inch, with horizontal joints level and with vertical joints plumb.
- e. Tool exterior joints concave.
- f. Tool joints of interior block walls concave.
- E. New masonry infill at existing wall openings shall be toothed-in to existing masonry (unless noted otherwise). Texture, size, and finish of new masonry units are to match existing for a seamless transition.
- F. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

3.4 PLACING AND BONDING

- A. Lay masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Cores to be grouted solid shall have the CMU cross webs set in a mortar bed to prevent the grout from flowing into the adjacent cells.
- C. Start the partitions on concrete floor slabs and extend to roof or floor construction above; except that where partitions are shown to terminate at suspended ceilings, extend partitions a minimum of 4 inches above such suspended ceilings, unless shown otherwise.
- D. Buttering corners of joints or excessive furrowing of mortar joints are not permitted.
- E. Remove excess mortar as work progresses.
- F. For the finished masonry walls that will not be painted:
 - 1. Avoid use of excess mortar.
 - 2. Remove excess mortar as work progresses.
 - 3. Immediately clean mortar from the face of the CMU or ACMU wall units.
 - 4. All precautions shall be taken to avoid staining of the finished surface of the masonry units.
- G. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- H. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- I. Broken or chipped masonry units will not be allowed. Care shall be taken during handling and installation to prevent any damage to the face and edges of all block units.
- J. Where built-in terms are to be embedded in cores of hollow masonry units, place a grout retainer in the in joint below and rod mortar or grout into core.

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- K. Masonry work that shows evidence of having been frozen shall be removed and replaced with new materials.
- L. Masonry work shall never be placed on snow or ice covered surfaces. The surfaces shall be cleaned and dried prior to proceeding with the new masonry work.
- M. Wet or frozen masonry units shall not be used until they are allowed to dry.
- N. All Masonry walls shall be covered at night or whenever work is not underway to prevent moisture entry into the wall.
 - 1. Finished walls shall have the tops of exposed walls covered to prevent moisture entry into the wall.
 - 2. Wall covering shall be waterproof tarps, reinforced polyethylene sheets or other approved waterproof barrier, anchored in place so they will not be displaced by the weather.

3.5 REINFORCEMENT AND ANCHORAGE – SINGLE WYTHE MASONRY

- A. Install horizontal joint reinforcement 16 inches (400 mm) oc.
- B. Place joint reinforcement continuous in first and second joint below top of walls.
- C. Lap joint reinforcement ends minimum 6 inches (150 mm).
- D. Install pre-fabricated corners and tees.
- E. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch (13 mm) of dimensioned position.
- F. Provide reinforced walls or piers in locations shown. Install vertical reinforcing in block cores, of sizes and at spacings shown.
 - 1. Loop and wire-tie to dowels at bottom.
 - 2. If splicing of reinforcing is required, lap joints and wire-tie as required by the codes.
 - 3. After mortar has set, fill cores containing reinforcing with grout.
 - 4. If only segments of a wall are reinforced, provide setting mortar on cross-webs adjacent to segment, during laying, to contain the grout in the reinforced cores.

3.6 GROUTED COMPONENTS

- A. Place horizontal mortar mesh over cores below grouted course(s).
- B. Lap splices minimum 24 bar diameters.
- C. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch (13 mm) of dimensioned position.
- D. Place and consolidate grout fill without displacing reinforcing.
- E. At vertical reinforcing steel locations, grout cores solid as shown on the Drawings.

3.7 TOLERANCES

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- A. Maximum Variation from Unit to Adjacent Unit: 1/32 inch.
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.
- C. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.
- E. Maximum Variation of Joint Thickness: 1/8 inch in 3 ft.
- F. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch.
- G. Maximum Variation of Head Joint Alignment, Every Second Course: 1/8 inch in 2 ft and 1/4 inch in 8 ft.

3.8 CUTTING AND FITTING

- A. Cut and fit for chases, pipes, conduit, sleeves, grounds, etc. Coordinate with other sections of work to provide correct size, shape, and location.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.9 CLEANING

- A. Clean work under provisions of 01700.
- B. Clean exposed surfaces of masonry thoroughly to remove mortar, dirt, paint spots, stains, efflorescence and defacements.
 - 1. Protect exposed adjacent materials during installation and cleaning operations.
 - 2. Remove mortar droppings from aluminum and other metal surfaces daily.
 - 3. Do not use sand blast, or other materials or methods that will stain, discolor, or damage the masonry surfaces in any way.
- C. Point up joints full and even and to match tooling used on wall.
 - 1. Cut out and point up defective joints during or before cleaning.
 - 2. Clean out and provide proper-depth recesses for calking and sealing work.
 - 3. Mortar shall match adjacent installations in color and texture.
- D. Brush clean concrete masonry units as the work progresses.
 - 1. Allow mortar droppings on such surfaces to dry and then remove by trowel, block-rubbing and brushing.
- E. Protect surfaces that could be harmed by cleaning operations.
- F. Clean masonry with warm water, detergent and fiber brushes.

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- 1. IF such cleaning is ineffective, use specified brick cleaning solution following the manufacturer's instructions.
- 2. Cleaning solutions from Diedrich or ProSoCo may be used as necessary to remove stains from the masonry block and must be approved by the Engineer prior to starting the work.
 - a. The Contractor shall start with the mildest cleaning solution available and work to the stronger cleaning agents if the stains persist.
 - b. All solutions shall be tested in inconspicuous places to verify that they are not detrimental (change texture or color) to the appearance of the wall surface.
- 3. Immediately flush surfaces thoroughly with clean, clear water.
- 4. Also, immediately flush adjacent surfaces upon which solution has dropped or splashed. Do not use high-pressure power washers.
- 5. The walls shall be cleaned as many times as necessary to remove stubborn and persistent stains.
- 6. If stains are such that they cannot be successfully removed from the surface of the masonry unit, the masonry unit shall be cut from the wall and a new non-stained masonry unit matching the existing wall units shall be tuck-pointed into place.
- G. It is the Owner and the Engineer's intention to have a uniform appearance in the final wall surfaces.
- H. For soiled stone surfaces, clean joints and exposed surfaces with fiber brush and soap powder and rinse thoroughly with water.
- I. Remove all excess materials, debris, equipment, sample panels, etc. From site upon completion and acceptance of masonry work.
- J. Use non-metallic tools in cleaning operations.

3.10 PROTECTION OF FINISHED WORK

- A. Protect finished Work under provisions of Section 01500.
- B. All new masonry walls shall be protected at night to prevent the entrance of moisture into the exposed top of walls.
 - 1. Wall protection shall be provided until such time as the wall is permanently protected from moisture by subsequent construction.
 - 2. Walls not being actively worked on shall be protected from moisture continuously during the work interruption.
 - 3. Wall coverings shall be plastic or canvas as approved by the Engineer.
 - 4. Wall coverings shall be held in place securely to prevent being displaced by wind or weather conditions.
- C. Without damaging completed work, provide protective boards at exposed external corners which may be damaged by construction activities.
- D. If masonry work becomes stained after the cleaning process has been completed and prior to acceptance of the completed building by the Owner, the Contractor shall clean the walls again, in accordance with the above specified procedures, to make them acceptable.

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3 : 2 END OF SECTION

Hubbell, Roth & Clark, Inc. Job 20210971

SECTION 04900

MASONRY RESTORATION & CLEANING

PART 1 GENERAL

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1.1 SUMMARY

- A. Section Includes: Masonry restoration for all exposed CMU on the existing building.
- B. Sandblasting and/or use of job mixed basic acids (non-proprietary cleaning materials) will not be allowed under the contract.
- 1.2 RELATED SECTIONS: SECTIONS:
 - A. Section 04100: Mortar and Masonry Grout.
 - B. Section 04300: Unit Masonry System.
- 1.3 SYSTEM DESCRIPTION
 - A. Performance Requirements: Provide masonry restoration products and new masonry construction cleaners which have been manufactured for and are appropriate for use on designated substrates.
 - B. Existing surfaces to be cleaned shall include CMU and mortar.
 - C. The work under this Section includes the removal of the dirty and heavily carboned masonry at the site. The products shall loosen and dissolve dirt, paint oxidation, carbon buildup and other atmospheric pollutants.

1.4 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit product data, manufacturer's product sheet, for specified products.
- C. Program Description:
 - 1. Restoration Program: Submit written program description for restoration process describing materials, methods, equipment, and sequence of operations.
 - 2. Cleaning Program: Submit written program description for cleaning process describing materials, methods, equipment, and sequence of operations.
- D. Quality Assurance Submittals: Submit the following:
 - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
 - 2. Warranty: Warranty documents specified herein.

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1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - a. Certificate: When requested, submit certificate indicating qualification.
 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.
 - Regulatory Requirements: Comply with all Federal, State and Local Government agency regulations that may apply to the use or application of the products covered under this Section.
- B. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements. Comply with Division 1 Coordination and Meetings, Section 01039.
- C. Preinstallation Testing: Conduct preinstallation testing as follows: Test a 4'-0" x 4'-0" area prior to beginning full scale cleaning operations to determine dilution rate and compatibility with masonry surfaces.
 - 1. Test each type of surface and each type of stain.
 - 2. Test effect of pressure rinsing on the existing surfaces.
 - 3. Allow 3 to 5 days before evaluating results of test cleaning.
 - 4. Do not conduct testing when freezing weather is expected during any phase of the testing procedure. Masonry surface temperatures should be above 40° F.

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.

1.7 PROJECT CONDITIONS

A. Environmental Requirements/Conditions: Substrate and ambient air temperature shall be in accordance with manufacturer's requirements.

1.8 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document.
 - 1. Warranty Period: One year commencing on Date of Substantial Completion.

PART 2 PRODUCTS

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2.1 MASONRY RESTORATION & CLEANING

- A. Manufacturer: ProSoCo, Inc.
 - 1. Contact: 3741 Greenway Circle, Lawrence, KS 66046; Telephone: (800) 255-4255, (785) 865-4200, Fax: (785) 830-9797.
- B. Proprietary Product(s)/System(s):
 - 1. Masonry Restoration Cleaners.

2.2 PRODUCT SUBSTITUTION

- A. Substitutions: Substitutions will be permitted under the terms of Section 01600.
- B. Substitution products shall be subject to a side by side comparison testing with the specified products.
- C. After the side by side comparison testing is complete, the Engineer shall select the product that has performed the best in the test samples and that shall be the product used for the Project.

2.3 MASONRY RESTORATION MATERIALS

- A. Products under this Section shall be coordinated with the products provided under other Sections as to compatibility and suitability in combination with the restoration products.
- B. Exterior Masonry Restoration Cleaners:
 - 1. Enviro Klean, 2010 All Surface Cleaner. For removing moderate to heavy atmospheric staining from architectural concrete block.

PART 3 EXECUTION

- 3.1 MANUFACTURER'S INSTRUCTIONS
 - A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.

3.2 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

3.3 PREPARATION

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

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- B. Surface Preparation: Clean substrates of substances that interfere with penetration or performance of surface treatments. Test for moisture content and pH level, according to manufacturer's instructions, to ensure surface is prepared and dry to receive surface treatments.
- C. Test Application: In general the following procedures shall be followed for each system. Modifications may be necessary to suit one of the particular products and these suggested modifications should be pointed out during the shop drawing submittal stage so they can be evaluated and approved.
 - 1. Test each surface for each type of stain.
 - 2. Test to see if pressure rinsing will be effective.
 - 3. Evaluate test area between 3 and 7 days after the conducting the initial tests.
 - 4. Surface temperature of the material to be cleaned must be 40°F and rising.
 - 5. Air temperature should remain above freezing during the evaluation period.
 - 6. Conduct first test with product at full strength.
 - a. If first test is successful, conduct a second test at 2:1 dilution rate.
 - b. If second test is successful, conduct a third test at 3:1 dilution rate.
 - c. Each test shall be conducted on a different area of the same wall for comparison purposes.
 - d. 3:1 is the maximum allowable dilution rate for the products.
 - e. The Contractor can use the highest rate that still cleans effectively in the opinion of the Engineer.

3.4 INSTALLATION

- A. Masonry Restoration and Cleaning Installation:
 - 1. Masonry Cleaning: Cleaning procedures for masonry surfaces shall include the application of 766 Masonry Pre-wash followed by Restoration Cleaner in strict accordance with the manufacturer's recommendations. This application may be modified as required to improve final results based on the evaluated results of the field testing on the existing masonry.
 - 2. Masonry Repointing: Masonry areas found to be loose and deteriorated shall be repointed to meet Engineer approval.
- B. Special Techniques: Manufacturer's recommendations shall be followed with regards to the protecting of other materials that will not be cleaned or that could be damaged by contact with the restoration materials. The contractor shall mask off all non-compatible materials or provide other means of adequate protect. Any damage shall be repaired at the Contractor's expense.
- C. Interface with Other Work: The Contractor shall coordinate his efforts with other Contractors working in the area. This work shall be scheduled to avoid any potential conflicts and minimize inconvenience to the Owner.
- D. Sequence of Operation: The building to be cleaned/restored shall be scheduled with the Owner so the building operations can continue with a minimum of disruption. The Contractor shall schedule his operations to avoid closing any portions of the building that the operators need access to.

3.5 CLEANING

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A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.6 **PROTECTION**

A. Protection: Protect cleaned surfaces and installed surface treatments.

END OF SECTION

SECTION 05500

METAL FABRICATIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Shop fabricated ferrous metal items, including but not limited to miscellaneous steel lintels, steel plate fabrications, column sections and angles.

1.2 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

A. Section 04300 - Unit Masonry System: Placement of metal fabrications in masonry.

1.3 RELATED SECTIONS

A. Section 09900 - Painting: Paint finish.

1.4 **REFERENCES**

- A. AISC Code of Standard Practice Manual of Steel Construction Allowable Stress Design (ASD).
- B. AISC Section 10 Architecturally Exposed Structural Steel.
- C. ASTM A36/A36M Structural Steel.
- D. ASTM A48 Standard Specifications for Gray Iron Castings
- E. ASTM A123 Zinc (Hot-Galvanized) Coatings on Products Fabricated From Rolled, Pressed and Forged Steel Shapes, Plates, Bars, and Strip.
- F. ASTM A153 Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- G. ASTM A283 Carbon Steel Plates, Shapes, and Bars.
- H. ASTM B85 Standard Specification for Aluminum-Alloy Die Castings.
- I. ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- J. ASTM B210 Standard Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes.
- K. ASTM B211 Standard Specification for Aluminum and Aluminum-Alloy Bar, Rod, and Wire.
- L. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

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- M. ASTM A307 Carbon Steel Externally Threaded Standard Fasteners.
- N. ASTM A320/A320M-92 Specification for Alloys-Steel Bolting Materials for Low-Temperature Service.
- O. ASTM A325 High Strength Bolts for Structural Steel Joints.
- P. ASTM A501 Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
- Q. ASTM E329-93b Specification for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction.
- R. AWS A2.0 Standard Welding Symbols.
- S. AWS D1.1 Structural Welding Code.
- T. SSPC Steel Structures Painting Council.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
- C. Indicate welded connections using standard AWS A2.0 welding symbols. Indicate net weld lengths.
- D. Product Data: Provide high strength bolt test data, details of product descriptions, product limitations.

1.6 QUALIFICATIONS

- A. Prepare Shop Drawings under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of Michigan.
- B. Welders Certificates: Submit under provisions of Section 01300, certifying welders employed on the Work, verifying AWS qualification within the previous 12 months.

1.7 FIELD MEASUREMENTS

A. Verify that field measurements are as indicated on shop drawings and instructed by the manufacturer.

1.8 REGULATORY REQUIREMENTS

A. Conform to "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings", latest edition of the American Institute of Steel Construction and governing Local or State Codes.

PART 2 PRODUCTS

- 2.1 MATERIALS STEEL
 - A. Structural Shapes: ASTM A36/A36M.
 - B. Steel Plate: ASTM A36/A36M. Grade 50.
 - C. Hollow Structural Sections: ASTM A500/A500M, Grade B.
 - D. Steel Pipe: ASTM A53/A53M, Grade B Schedule 40 unless otherwise noted on the Drawings.
 - E. Sheet Steel: ASTM A653/A653M, Grade 33 Structural Quality, galvanized with 1.5 ounce coating class.
 - F. Bolts: ASTM A325; Type 1.1. Finish: Hot dipped galvanized.
 - G. Nuts: ASTM A563 heavy hex type.1. Finish: Hot dipped galvanized.
 - H. Washers: ASTM F436; Type 1.1. Finish: Hot dipped galvanized.
 - I. Welding Materials: AWS D1.1; type required for materials being welded.
 - J. Shop Primer: SSPC Paint 15, Type 1, red oxide, compatible with finish painting specified in Section 09900.
 - K. Touch-Up Primer: Match shop primer.
 - L. Touch-Up Primer for Galvanized Surfaces: In accordance with requirements of Specification Section 09900
- 2.2 MATERIALS STAINLESS STEEL
 - A. Bars and Shapes: ASTM A479/A479M; Type 304.
 - B. Tubing: ASTM A554; Type 304.
 - C. Pipe: ASTM A312/A312M, seamless; Type 304.
 - D. Plate, Sheet and Strip: ASTM A240/A240M OR ASTM 666; Type 304.
 - E. Bolts, Nuts, and Washers: Stainless Steel Bolts: Conform to ASTM A320, Grade B8M (AISI Type 316, U.N.O.).
 - F. Welding Materials: AWS D1.6; type required for materials being welded.
 - G. Stainless Steel Bolts: Conform to ASTM A320, Grade B8M (AISI Type 316, U.N.O.).

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2.3 MATERIALS - ALUMINUM

- A. Extruded Aluminum: ASTM B221 Alloy 6063, Temper T5.
- B. Sheet Aluminum: ASTM B209, Alloy 6061.
- C. Aluminum-Alloy Drawn Seamless Tubes: ASTM B210, Alloy 6063, Temper T6.
- D. Aluminum-Alloy Bars: ASTM B211, Alloy 6063, Temper T6.
- E. Aluminum-Alloy Sand Castings: ASTM B26/B26M.
- F. Aluminum-Alloy Die Castings: ASTM B85, Alloy as required to suit application.
- G. Bolts, Nuts, and Washers: Stainless steel.
- H. Welding Materials: AWS D1.1; type required for materials being welded.

2.4 MISCELLANEOUS

- A. Welding Materials: AWS D1.1; Electrodes: E70 low hydrogen.
- B. Touch-Up Primer for Galvanized Surfaces: Per Section 09900.

2.5 FABRICATION

- A. Fit and shop assemble in largest practical sections, for delivery to site.
- B. Fabricate items with joints tightly fitted and secured.
- C. Continuously seal joined members exposed to weather, by continuous watertight welds, ground smooth.
- D. Grind exposed welds and joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- E. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
- F. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
- G. Bolt heads, where required, shall be countersunk flush with the surface of the members in which they are located.
- H. No shop or field burning is permitted without the permission of the Owner. If permission is given, all burned members shall be finished to an acceptable appearance which shall be the equal of a sheared finish.
- I. Structural shop connections shall be welded or bolted with high tensile bolts. Initial shop bolting, when used, shall be for erection purposes only.

- J. Final torque all shop and field bolted connections in the field to provide unit connections.
- K. All bolted connections shall be made with not less than two, 3/4 inch minimum diameter, high strength bolts.
- L. All connections shall be symmetrical.

2.6 FINISHES

- A. Prepare surfaces to be primed in accordance with Specification Section 09900 PAINTING.
- B. Do not prime surfaces in direct contact with concrete or where field welding is required.
- C. Prime paint items with one coat as specified in Section 09900.
- D. Fabricated Items: Galvanize in accordance with ASTM A123, structural steel members. Provide minimum 2 oz/sq ft galvanized coating.
- E. Hardware: Hot dip in accordance with ASTM A153.

PART 3 EXECUTION

- 3.1 EXAMINATION
 - A. Verify that field conditions are acceptable and are ready to receive work.
 - B. Beginning of installation means erector accepts existing conditions.

3.2 PREPARATION

- A. Clean and strip primed steel items to bare metal where site welding is required.
- B. Supply items required to be cast into concrete or embedded in masonry with setting templates, to appropriate sections.

3.3 INSTALLATION

- A. Install items plumb and level, accurately fitted, free from distortion or defects.
- B. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- C. Field weld components indicated on shop drawings.
- D. Perform field welding in accordance with AWS D1.1.
- E. Obtain Engineer approval prior to site cutting or making adjustments not scheduled.
- F. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

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3.4 SCHEDULE

- A. The Schedule is a list of principal items only. Refer to Drawing details for items not specifically scheduled.
- B. Headed Steel Anchor Studs: Size and length as indicated on the Drawings.
- C. Miscellaneous Steel Column sections, Channel and Plate Fabricated Supporting Members: Size and fabrication as shown on the Drawings. Galvanize all members.
- D. Expansion Anchors: When not shown on the Drawings, anchors shall be Red Head Wedge Anchors or Parabolt; minimum 4 inch long concrete embedment.
- E. Material specified herein shall be finish painted as specified in Section 09900; stainless steel and FRP items shall not be painted.
- F. Stop plates with grooves: Fabricate as shown on the Drawings. Galvanize all items unless specifically noted otherwise.

END OF SECTION

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SECTION 07181

WATER REPELLENT COATING

PART 1 GENERAL

1.1 SECTION INCLUDES

Water repellent coating applied to exterior exposed concrete surfaces. A.

1.2 **RELATED SECTIONS**

- Section 04300-Unit Masonry: Masonry surfaces. A.
- Β. Section 04900-Masonry Restoration.

1.3 **SUBMITTALS**

- Submit under provisions of Section 01300. A.
- B. Product Data: Provide details of product description, tests performed, limitations to coating, cautionary procedures required during application, and chemical properties including percentage of solids.
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.
- D. Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.

1.4 **QUALIFICATIONS**

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years experience.
- Applicator: Company specializing in performing the work of this section with minimum three Β. years experience.

1.5 MOCKUP

- A. Provide mockup of surface to be coated under provisions of Section 01400.
- B. Prepare coated surface 36×36 inch $(1 \times 1 \text{ m})$ in size.
- C. Apply material to test area using the same equipment as intended for the job. Sample area will be allowed to cure for a minimum of 48 hours.
- D. Mockup may, at the discretion of the Engineer, remain as part of the Work.

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1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Section 01600.
- B. Protect coating liquid from freezing.

1.7 ENVIRONMENTAL REQUIREMENTS

A. Do not apply coating when ambient or surface temperature is lower than 50 degrees F (10 degrees C) or higher than 100 degrees F (38 degrees C).

1.8 EXTRA MATERIALS

- A. Furnish under provisions of Section 01700.
- B. Provide two gallons of coating, in manufacturer's labeled, unopened, containers.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. ProSoCo Inc.:
 - 1. Concrete Block, Concrete Brick, Cast Stone and Unpolished Limestone Sure Klean Weather Seal Blok-Guard & Graffiti Control WB 15.
- B. Substitutions: Under provisions of Section 01300.

2.2 MATERIAL

- A. A water repellent sealer for exterior, vertical, above-grade applications on concrete and masonry. A clear, water-repellent, film-free formula protects buildings from moisture damage and reduces efflorescence, atmospheric staining, and scaling associated with freeze/thaw cycles.
- B. Water repellent material shall have the following minimum performance.
 - 1. Reduction in water absorption: 98.9 percent per ASTM C 67.
 - 2. Reduction in water absorption: 94.8 percent per ASTM C 642.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify joint sealants are installed and cured.
- B. Verify compatibility of material with joint sealants and masonry restoration products used.
- C. Verify surfaces to be coated are dry, clean, and free of efflorescence, oil, or other matter detrimental to application of coating.

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3.2 PREPARATION

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- A. Delay work until masonry mortar or concrete substrate is cured a minimum of 30 days or as recommended by the manufacturer of the water repellent coating.
- B. Remove loose particles and foreign matter.
- C. Remove oil or foreign substance with a chemical solvent which will not affect coating.
- D. Scrub and rinse surfaces with water and let dry.

3.3 APPLICATION

- A. Apply coating in accordance with manufacturer's instructions. Wall surfaces must be tested daily with a moisture meter to ensure that moisture levels at the walls are within Manufacturer's allowed tolerance levels prior to application of coating.
- B. Apply each coat of material in one continuous, uniform coat; actual number of coats applied shall be as recommended by material manufacturer to meet manufacturer's standard warranty requirements.
- C. Special attention must be given to applying the coating to the interior edges of the exterior flutes at the CMU to ensure complete coverage at all exterior surfaces, as well as the exposed portions of the cast in place foundation walls.

3.4 PROTECTION TO FINISHED AND ADJACENT WORK

- A. Protect adjacent surfaces not scheduled to receive coating.
- B. Protect landscaping, property, and vehicles.
- C. If applied to unscheduled surfaces, remove immediately by a method instructed by coating manufacturer.

END OF SECTION

Hubbell, Roth & Clark, Inc. Job 20210971

SECTION 07620

SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Metal edge and preformed roof flashings.
- B. Gutters.

1.2 **REFERENCES**

- A. ASTM A167 Stainless and Heat-Resisting Chromium-Nickel Steel Plate.
- B. ASTM D4586 Asphalt Roof Cement, Asbestos-Free.
- C. NRCA (National Roofing Contractors Association) Roofing Manual.
- D. SMACNA Architectural Sheet Metal Manual.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.

1.4 QUALITY ASSURANCE

- A. Perform work in accordance with AISI, CDA, NRCA and SMACNA standard details and requirements. Several SMACNA standard documents and fabrications are referred to, in this Work. Maintain one copy of each document/ cut sheet on site. Where not specifically detailed or specified, comply with SMACNA's "Architectural Sheet Metal Manual". Conform to dimensions and profiles recommended unless more stringent requirements are indicated.
- B. Maintain one copy of each document on site.

1.5 QUALIFICATIONS

A. Fabricator and Installer: Company specializing in sheet metal flashing work with 3 years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Section 01600.
- B. Stack preformed and prefinished material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.

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C. Prevent contact with materials which may cause discoloration or staining.

PART 2 PRODUCTS

- 2.1 MANUFACTURERS fabrications shall be factory fabricated to the extent possible. Contractor may elect to provide field fabricated copings and flashings as long as the metals are as specified and fabricated as called for in this Section. Manufacturer shall note flashing configurations as required on the Drawings and Contractor shall provide existing field dimensions for fabrications as required for the Work. Provide product configurations by one of the following:
 - A. IMETCO, Inc.
 - B. PAC-CLAD Peterson
 - C. W.P. Hickman

2.2 SHEET MATERIALS

- A. Galvanized Steel Sheet: Mill phosphatized, minimized spangle, zinc coating designation G90 per ASTM A 653.
- B. Galvanized Steel Gages: Metal gages shall be as specified below. If a fabrication is required that is not listed below, Contractor shall follow minimum SMACNA galvanized steel gage recommendations for that item. Unless noted otherwise on the Drawings, use minimum 24 gage for all items except:
 - 1. New gutter hanger fabrications shall be similar to existing hangers in terms of profile, finish and configuration.

2.3 ACCESSORIES

- A. Fasteners: Same material and finish as flashing metal (unless noted otherwise on the Drawings), with soft neoprene washers.
- B. Sealants: Sealants used in conjunction with the metal flashings shall be polyurethane; ASTM C920, Grade NS, Type S, Class 25, single component sealant, non-staining, non-bleeding, non-sagging type; color to match adjacent surfaces; Sonolastic NP-1 manufactured by Sonneborn Building Products; Dynatrol, I-XL manufactured by Pecora Corporation or Bostik ChemCalk-GPS1.

2.4 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Fabricate cleats of same material as sheet, interlockable with sheet.
- C. Form pieces in longest possible lengths; profiles as shown on the Drawings.
- D. Hem exposed edges on underside 1/4 (6 mm) inch; miter and seam corners.

- E. Fabricate corners from one piece with minimum 6 inch long legs; miter joint shall be watertight welded or standing seal construction. Sealing with sealant alone is not acceptable.
- F. Fabricate vertical faces with bottom edge formed outward 1/4 inch (6 mm) and hemmed to form drip.
- G. Gutters shall be sized as indicated on drawings, fabricated in accordance with SMACNA standards. Provide custom connector to tie into existing downspouts. Provide heavy duty galvanized and powder coated hangers for gutter support. Gutters shall have interlocked seam.

2.5 FINISH

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- A. Polyvinylidene Fluoride Finish: Factory-applied baked-on polyvinylidene fluoride resin finish containing not less than 70% Kynar 500 or Hylar 5000 resin, with minimum total dry film thickness of 1.0 mil (0.2 mil primer and 0.8 mil finish), in standard color as selected per approved samples.
- B. Back paint concealed metal surfaces as specified for dissimilar metal protection on aluminum flashings and fabrications.

PART 3 EXECUTION

- 3.1 EXAMINATION
 - A. Verify roofing termination and base flashings are in place, sealed, and secure.

3.2 PREPARATION

A. Install starter and edge strips, and cleats before starting installation.

3.3 INSTALLATION

- A. Conform to drawing details included in the NRCA manual.
- B. Secure flashings in place using concealed fasteners. Use exposed fasteners only where permitted.
- C. Apply plastic cement compound between metal flashings and felt flashings.
- D. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- E. Seal metal joints watertight.

3.4 FIELD QUALITY CONTROL

A. Field inspection will be performed under provisions of Section 01400.

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B. Inspection will involve Engineer observation of work during installation to ascertain compliance with specified requirements.

END OF SECTION

<u>APPENDIX</u>

ATTACHMENT B GENERAL DECLARATIONS

City of Ann Arbor Guy C. Larcom Municipal Building Ann Arbor, Michigan 48107

Ladies and Gentlemen:

The undersigned, as Bidder, declares that this Bid is made in good faith, without fraud or collusion with any person or persons bidding on the same Contract; that this Bidder has carefully read and examined the bid documents, including City Nondiscrimination requirements and Declaration of Compliance Form, Living Wage requirements and Declaration of Compliance Form, Prevailing Wage requirements and Declaration of Compliance Form, Vendor Conflict of Interest Form, Notice of Pre-Bid Conference, General Information, Bid, Bid Forms, Contract, Bond Forms, General Conditions, Standard Specifications, Detailed Specifications, all Addenda, and the Plans (if applicable) and understands them. The Bidder declares that it conducted a full investigation at the site and of the work proposed and is fully informed as to the nature of the work and the conditions relating to the work's performance. The Bidder also declares that it has extensive experience in successfully completing projects similar to this one.

The Bidder acknowledges that it has not received or relied upon any representations or warrants of any nature whatsoever from the City of Ann Arbor, its agents or employees, and that this Bid is based solely upon the Bidder's own independent business judgment.

The undersigned proposes to perform all work shown on the plans or described in the bid documents, including any addenda issued, and to furnish all necessary machinery, tools, apparatus, and other means of construction to do all the work, furnish all the materials, and complete the work in strict accordance with all terms of the Contract of which this Bid is one part.

In accordance with these bid documents, and Addenda numbered <u>1</u>, the undersigned, as Bidder, proposes to perform at the sites in and/or around Ann Arbor, Michigan, all the work included herein for the amounts set forth in the Bid Forms.

The Bidder declares that it has become fully familiar with the liquidated damage clauses for completion times and for compliance with City Code Chapter 112, understands and agrees that the liquidated damages are for the non-quantifiable aspects of non-compliance and do not cover actual damages that may be shown and agrees that if awarded the Contract, all liquidated damage clauses form part of the Contract.

The Bidder declares that it has become fully familiar with the provisions of Chapter 14, Section 1:320 (Prevailing wages) and Chapter 23 (Living Wage) of the Code of the City of Ann Arbor and that it understands and agrees to comply, to the extent applicable to employees providing services to the City under this Contract, with the wage and reporting requirements stated in the City Code provisions cited. Bidder certifies that the statements contained in the City Prevailing Wage and Living Wage Declaration of Compliance Forms are true and correct. Bidder further agrees that the cited provisions of Chapter 14 and Chapter 23 form a part of this Contract.

The Bidder declares that it has become familiar with the City Conflict of Interest Disclosure Form and certifies that the statement contained therein is true and correct.

The Bidder encloses a certified check or Bid Bond in the amount of 5% of the total of the Bid Price. The Bidder agrees both to contract for the work and to furnish the necessary Bonds and insurance documentation within 10 days after being notified of the acceptance of the Bid.

If this Bid is accepted by the City and the Bidder fails to contract and furnish the required Bonds and insurance documentation within 10 days after being notified of the acceptance of this Bid, then the Bidder shall be considered to have abandoned the Contract and the certified check or Bid Bond accompanying this Bid shall become due and payable to the City.

If the Bidder enters into the Contract in accordance with this Bid, or if this Bid is rejected, then the accompanying check or Bid Bond shall be returned to the Bidder.

In submitting this Bid, it is understood that the right is reserved by the City to accept any Bid, to reject any or all Bids, to waive irregularities and/or informalities in any Bid, and to make the award in any manner the City believes to be in its best interest.

SIGNED THIS 13	_ DAY OF April, 202 <u>3</u> .
RAM Construction Services of Michigan, Inc.	AVer
Bidder's Name	Authorized Signature of Bidder
13800 Eckles Rd, Livonia, MI 48150	Andrew Sandzik, VP Restoration
Official Address	(Print Name of Signer Above)
734-464-3800	asandzik@ramservices.com

Telephone Number

Email Address for Award Notice

THE AMERICAN INSTITUTE OF ARCHITECTS



AIA Document A310

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we

RAM Construction Services of Michigan, Inc. 13800 Eckles Road, Livonia, MI 48150

as Principal, hereinafter called Principal, and

Travelers Casualty and Surety Company of America One Tower Square, Hartford, CT 06183

a corporation duly organized under the laws of the State of **Connecticut** as Surety, hereinafter called Surety, are held and firmly bound unto

City of Ann Arbor

301 East Huron Street, Ann Arbor, MI 48104

as Obligee, hereinafter called Obligee, in the sum of Five Percent of Accompanying Bid

Dollars (5% of Bid

for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourseives, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for

(Here insert full name, address and description of project)

Veterans Memorial Park Ice Arena Improvements

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this <u>4th</u> day of <u>April</u>	, 2023 .
/	RAM Construction Services of Michigan, Inc.
Do the	(Prifopal) (Seal)
(Witness)	Aut hur
	Robert T. Mazur (Title) President
	Travelers Casualty and Surety Company of America
	(Surety) (Seal)
(Witness)	Horef richold.
	(Title) Holly Nichols ,Attorney in Fact



Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Nicholas Ashburn, Anne M Barick, Robert D Heuer, Paul Hurley, Michael D Lechner, Mark Madden, Richard S McGregor, and Holly Nichols of Rochester Hills, Michigan, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business ofguaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

City of Hartford ss.

Robert L. Raney, Senior Vice President

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026

Inne (Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this day of 4th April 2023 725 ŵ CONN 25.62

Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880. Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

ATTACHMENT C LEGAL STATUS OF BIDDER

(The bidder shall fill out the appropriate form and strike out the other three.)

Bidder declares that it is:

* A corporation organized and doing business under the laws of the State of

<u>Michigan</u>, for whom <u>Andrew Sandzik</u>, bearing the office title of <u>Vice President Restoration</u>, whose signature is affixed to this Bid, is authorized to execute contracts.

NOTE: If not incorporated in Michigan, please attach the corporation's Certificate of Authority

N/A	
*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Authorized Official DateApril 13, 2023 (Print) NameAndrew Sandzik TitleVice President, Restoration	
Company: RAM Construction Services of Michigan, Inc.	
Address: 13800 Eckles Road, Livonia, MI 48150	
Contact Phone (734) <u>368-6854</u> Fax ()	- 11 17 1 1
Email <u>asandzik@ramservices.com</u>	

ATTACHMENT D PREVAILING WAGE DECLARATION OF COMPLIANCE

The "wage and employment requirements" of Section 1:320 of Chapter 14 of Title I of the Ann Arbor City Code mandates that the city not enter any contract, understanding or other arrangement for a public improvement for or on behalf of the city unless the contract provides that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. Where the contract and the Ann Arbor City Code are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used. Further, to the extent that any employees of the contractor providing services under this contract are not part of the class of craftsmen, mechanics and laborers who receive a prevailing wage in conformance with section 1:320 of Chapter 14 of Title I of the Code of the City of Ann Arbor, employees shall be paid a prescribed minimum level of compensation (i.e. Living Wage) for the time those employees perform work on the contract in conformance with section 1:815 of Chapter 23 of Title I of the Code of the City of Ann Arbor.

At the request of the city, any contractor or subcontractor shall provide satisfactory proof of compliance with this provision.

The Contractor agrees:

- (a) To pay each of its employees whose wage level is required to comply with federal, state or local prevailing wage law, for work covered or funded by this contract with the City,
- (b) To require each subcontractor performing work covered or funded by this contract with the City to pay each of its employees the applicable prescribed wage level under the conditions stated in subsection (a) or (b) above.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the wage and employment provisions of the Chapter 14 of the Ann Arbor City Code. The undersigned certifies that he/she has read and is familiar with the terms of Section 1:320 of Chapter 14 of the Ann Arbor City Code and by executing this Declaration of Compliance obligates his/her employer and any subcontractor employed by it to perform work on the contract to the wage and employment requirements stated herein. The undersigned further acknowledges and agrees that if it is found to be in violation of the wage and employment requirements of Section 1:320 of the Chapter 14 of the Ann Arbor City Code it shall has be deemed a material breach of the terms of the contract and grounds for termination of same by the City.

RAM Construction Services of Michigan, Inc.

Company Name	
le V	4/13/2023
Signature of Authorized Representative	Date
Andrew Sandzik, Vice President, Re	estoration
Print Name and Title 13800 Eckles Rd, Livonia, MI 48150	
Address, City, State, Zip	

<u>734-368-6854 / asandzik@ramservices.com</u> Phone/Email address

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500

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ATTACHMENT E

LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelvemonth contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here [___] No. of employees_____

The Contractor or Grantee agrees:

(a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as \$14.82/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than \$16.52/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

Check the applicable box below which applies to your workforce



Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits

Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

- (b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.
- (e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

RAM Construction Services of Michigan, Inc.	13800 Eckles Road
Company Name	Street Address
4/13/2023	Livonia, MI 48150
Signature of Authonized Representative Date	City, State, Zip
Andrew Sandzik, Vice President, Restoration	734-368-6854
Print Name and Title	Phone/Email address

City of Ann Arbor Procurement Office, 734/794-6500, procurement@a2gov.org

Rev. 3/10/22

CITY OF ANN ARBOR LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2022 - ENDING APRIL 29, 2023





If the employer provides health care benefits*

If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than \$10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

ENFORCEMENT

The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than \$500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

* Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed \$.50 an hour for an average work week; and the employer cost or contribution must equal no less than \$1/hr for the average work week.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

For Additional Information or to File a Complaint contact Colin Spencer at 734/794-6500 or cspencer@a2gov.org

Revised 2/1/2022

ATTACHEMENT G



Vendor Conflict of Interest Disclosure Form

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

- No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
- 2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
- No City employee is contemporaneously employed or prospectively to be employed with the vendor.
- Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
- 5. Please note any exceptions below:

Conflict	of Interest Di	sclosure*
Name of City of Ann Arbor employees, elect	ed · ·	Relationship to employee
officials or immediate family members with whether there may be a potential conflict of interest	t () l	nterest in vendor's company Other (please describe in box below)
N/A		
Disclosing a potential conflict of interest does not	disqualify vend	ors. In the event vendors do not disclose potenti
conflicts of interest and they are detected by the Ci	ity, vendor will	be exempt from doing business with the City.
I certify that this Conflict of Interest D contents are true and correct to my kn certify on behalf of the Vendor by my si	nowledge an	d belief and I have the authority to so
octary of benañ of the vendor by my si	gnature be	
RAM construction Services of Michigan, Inc	. 7	34-464-3800
Vendor Name	Vendor Phone Number	
2×	4/13/2023	Andrew Sandzik, VP Restoration
Signature of Vendor Authorized Representative	Date	Printed Name of Vendor Authorized Representative

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, procurement@a2gov.org

ATTACHMENT H

DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

- (a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.
- (b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.
- (c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.
- (d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

RAM Construction Services of Michigan, Inc.

Company Name	
A	4/13/2023
Signature of Authorized Representative	Date
Andrew Sandzik, Vice President, Restoration	
Print Name and Title	
13800 Eckles Road, Livonia, MI 48150	
Address, City, State, Zip	14
10 BELLIN BY RECEIPTING AND ADDRESS	
734-368-6854 / asandzik@ramservices.com	
Phone/Email Address	

Questions about the Notice or the City Administrative Policy, Please contact: Procurement Office of the City of Ann Arbor (734) 794-6500

CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below. You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

<u>Discriminatory Employment Practices:</u> No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

<u>Discriminatory Effects</u>: No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

<u>Nondiscrimination by City Contractors:</u> All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter. he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a first complete the complaint form, which is complaint. available at www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

<u>Private Actions For Damages or Injunctive Relief</u>: To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.

Michigan Department Of Transportation CP-347 (04/10)

MICHIGAN DEPARTMENT OF TRANSPORTATION CERTIFIED PAYROLL

COMPLETION OF CERTIFIED PAYROLL FORM FULFILLS THE MINIMUM MDOT PREVAILING WAGE REQUIREMENTS

	SUBCONTRACTOR (CIRCLE ONE	-,			12/14	DRES	-														
(3) PAYROLL NO.	(4) FOR WEEK ENDING				(5) F	ROJE	CT AND	LOCA	TION									(6) (CONTRAC	ГID	
(a)	(a) (b) (c)		(d) DAY AND DATE						(e)	(f)	(f) (g)	(h) GROSS	(i)	(j) DEDUCTIONS						(k)	
EMPLOYEE INFORMATION	WORK CLASSIFICATION	Hour Type		HOUF	rs woi	RKED (DJECT		TOTAL HOURS ON PROJECT	PROJECT RATE OF PAY		PROJECT EARNED GROSS WEEKLY EARNED	TOTAL WEEKLY HOURS WORKED ALL JOBS	FICA	FEDERAL	STATE		OTHER	TOTAL DEDUCT	TOTAI WEEKL WAGE PAID FC ALL JOB
NAME:										0			\$0.00							\$0.00	\$0.0
ETH/GEN: ID #: VAME:	GROUP/CLASS #:	s								0			\$0.00								
										0			\$0.00							\$0.00	\$0.0
ETH/GEN: ID #: NAME:	GROUP/CLASS #:	s								0			\$0.00								
										0										\$0.00	\$0.0
ETH/GEN: ID #: NAME:	GROUP/CLASS #:	s								0			\$0.00								
ETH/GEN: ID #:	GROUP/CLASS #:	s								0										\$0.00	\$0.0
NAME:										0			\$0.00							\$0.00	\$0.0
TH/GEN: ID #:	GROUP/CLASS #:	s								0			\$0.00								
										0			\$0.00							\$0.00	\$0.0
ETH/GEN: ID #: NAME:	GROUP/CLASS #:	s								0			\$0.00								
IF										0										\$0.00	\$0.0
:TH/GEN: ID #: IAME:	GROUP/CLASS #:	s								0			\$0.00								
ETH/GEN: ID #:	GROUP/CLASS #:	s								0										\$0.00	\$0.0

Page 1 of 2

MDOT CP-347 (04/10)

Date	(b) WHE
I,(Name of Signatory Party) (Title)	
do hereby state:	
(1) That I pay or supervise the payment of the persons employed by	
	(c) EXCI
on the (Contractor or Subcontractor)	
; that during the payroll period commencing on the	
(Building or Work)	
day of,, and ending the day of,,	
all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said	
from the full	
(Contractor or Subcontractor)	
weekly wages earned by any person and that no deductions have been made either directly or indirectly	
from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Start. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:	
	REMARKS:
(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.	
(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.	
(4) That: (a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS	NAME AND TITL
in addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such	THE WILLFUL SUBCONTRACT

employees, except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

☐ - Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in section 4(c) below.

(c) EXCEPTIONS

(0) 23(02) 1101(0						
EXCEPTION (CRAFT)	EXPLANATION					
REMARKS:						
NAME AND TITLE	SIGNATURE					
THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.						

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