# CITY OF ANN ARBOR INVITATION TO BID



# Veterans Memorial Park Pool Liner Replacement

# ITB No. 4513

Due Date: Thursday, September 21st, 2017 at 2:00pm (Local Time)

Parks and Recreation Services Administering Services Unit

Issued By:

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

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### NOTICE OF PRE-BID CONFERENCE

A pre-bid conference for this project will be held on Friday, September 8<sup>th</sup>, 2017 at 2:00pm at Veterans Memorial Park, 2150 Jackson Avenue, Ann Arbor, MI 48103.

Attendance at this conference is highly recommended. Administrative and technical questions regarding this project will be answered at this time. The pre-bid 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 bid will be affirmed in an addendum.

#### **INSTRUCTIONS TO BIDDERS**

#### General

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. All work to be done under this Contract is located in or near the City of Ann Arbor.

Any Bid which does not conform fully to these instructions may be rejected.

# Preparation of Bids

Bids should be prepared providing a straight-forward, concise description of the Bidder's ability to meet the requirements of the ITB. Bids shall be written in ink or typewritten. No erasures are permitted. Mistakes may be crossed out and corrected and must be initialed and dated in ink by the person signing the Bid.

Bids must be submitted on the "Bid Forms" provided with each blank properly filled in. If forms are not fully completed it may disqualify the bid. No alternative bid will be considered unless alternative bids are specifically requested. If alternatives are requested, any deviation from the specification must be fully described, in detail on the "Alternate" section of Bid form.

Each person signing the Bid certifies that he/she is the person in the Bidder's firm/organization responsible for the decision as to the fees being offered in the Bid and has not and will not participated in any action contrary to the terms of this provision.

# Questions or Clarification on ITB Specifications

All questions regarding this ITB shall be submitted via email. Emailed questions and inquires will be accepted from any and all prospective Bidders in accordance with the terms and conditions of the ITB.

All questions shall be due on or before **September 11<sup>th</sup>**, **2017 at 3:00pm** (Local Time) and should be addressed as follows:

Specification/Scope of Work questions emailed to <a href="mailto:neil.wager@stantec.com">neil.wager@stantec.com</a> Bid Process and Compliance questions emailed to <a href="mailto:cspencer@a2gov.org">cspencer@a2gov.org</a>

Any error, omissions or discrepancies in the specification discovered by a prospective contractor and/or service provider shall be brought to the attention of Neil Wager, Project Engineer at <a href="mailto:neil.wager@stantec.com">neil.wager@stantec.com</a> after discovery as possible. Further, the contractor and/or service provide shall not be allowed to take advantage of errors, omissions or discrepancies in the specifications.

#### Addenda

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

Each Bidder must in its Bid, to avoid any miscommunications, acknowledge all addenda which it has received, but 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 written addenda.

#### **Bid Submission**

All Bids are due and must be delivered to the City of Ann Arbor Procurement Unit on or before **Thursday, September 21**<sup>st</sup> at 2:00 EST. Bids submitted late or via oral, telephonic, telegraphic, electronic mail or facsimile will not be considered or accepted.

Each Bidder must submit one (1) original Bid and two (2) Bid copies in a sealed envelope clearly marked: ITB No. 4315 Veterans Memorial Park Pool Liner Replacement

#### Bids must be addressed and delivered to:

City of Ann Arbor Procurement Unit, c/o Customer Services, 1st Floor 301 East Huron Street Ann Arbor, MI 48107

All Bids received on or before the Due Date will be publicly opened and recorded immediately. No immediate decisions are rendered.

The following forms provided within this ITB Document must be included in submitted bids.

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

# Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

Hand delivered bids will be date/time stamped/signed by the Procurement Unit at the address above in order to be considered. Normal business hours are 9:00 a.m. to 3:00 p.m. Monday through Friday, excluding Holidays. The City will not be liable to any Bidder for any unforeseen circumstances, delivery or postal delays. Postmarking to the Due Date will not substitute for receipt of the Bid. Each Bidder is responsible for submission of their Bid.

Additional time for submission of bids past the stated due date and time will not be granted to a single Bidder; however, additional time may be granted to all Bidders when the City determines in its sole discretion that circumstances warrant it.

#### **Award**

The City intends to award a Contract(s) to the lowest responsible Bidder(s). On multi-divisional contracts, separate divisions may be awarded to separate Bidders. The City may also utilize alternatives offered in the Bid Forms, if any, to determine the lowest responsible Bidder on each division, and award multiple divisions to a single Bidder, so that the lowest total cost is achieved for the City. For unit price bids, the Contract will be awarded based upon the unit prices and the lump sum prices stated by the bidder for the work items specified in the bid documents, with consideration given to any alternates selected by the City. If the City determines that the unit price for any item is materially different for the work item bid than either other bidders or the general market, the City, in its sole discretion, in addition to any other right it may have, may reject the bid as not responsible or non-conforming.

The acceptability of major subcontractors will be considered in determining if a Bidder is responsible. In comparing Bids, the City will give consideration to alternate Bids for items listed in the bid forms. All key staff and subcontractors are subject to the approval by the City.

The City will evaluate bids based on cost as well as experience. Contractors that have not included the required list of similar work experience and associated references in Section 5 of the Bid Form may have their bids rejected.

As part of the bid, Bidders shall provide documentation that:

The Bidder's Company has at least five (5) years of experience performing construction on similar projects of outdoor pools in similar climates.

Demonstrate a minimum of three (3) pools of similar size installed by its staff utilizing site built PVC reinforced PVC membrane materials, and a minimum of five (5) outdoor pools in northern climate.

The Bidder's Company can demonstrate a minimum of three (3) pools of similar size installed by its staff utilizing site built marcite materials, and a minimum of five (5) pools in a northern climate

Provide a full listing of any and all lawsuits from any venue in the United States from any prior customers in which they have been sued by claims within the last five (5) years.

#### Official Documents

The City of Ann Arbor officially distributes bid documents from the Procurement Unit or through the Michigan Intergovernmental Trade Network (MITN). Copies of the bid documents obtained from any other source are not Official copies. Addenda and other bid information will only be posted to these official distribution sites. If you obtained City of Ann Arbor Bid documents from other sources, it is recommended that you register on www.MITN.info and obtain an official Bid. Bidders do not need to be shown on the plan holders list provided by MITN to be considered an official plan holder.

# **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.

#### Withdrawal of Bids

After the time of opening, no Bid may be withdrawn for the period of ninety (90) days

#### Contract Time

Time is of the essence in the performance of the work under this Contract. The available time for work under this Contract is indicated on page C-2, Article III of the Contract. If these time requirements cannot be met, the Bidder must stipulate on Bid Form Section 3 - Time Alternate its schedule for performance of the work. Consideration will be given to time in evaluating bids.

## 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.

## **Human Rights Information**

All contractors 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 Section 5, beginning at page GC-3 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.

# Wage Requirements

Section 4, beginning at page GC-1, outlines the requirements for payment of prevailing wages and for payment of a "living wage" to employees providing service to the City under this contract. The successful bidder and its subcontractors must comply with all applicable requirements and provide proof of compliance.

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 the Prevailing Wage Form provided in the Appendix section 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 bids 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: <a href="https://www.wdol.gov">www.wdol.gov</a>.

For the purposes of this ITB the Construction Type of Heavy will apply.

#### Conflict of Interest Disclosure

The City of Ann Arbor Purchasing Policy requires that prospective Vendors complete a Conflict of Interest Disclosure form. A contract may not be awarded to the selected Vendor 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 Vendor Conflict of Interest Disclosure Form is attached.

## **Major Subcontractors**

The Bidder shall identify on Bid Form Section 4 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.

#### Debarment

Submission of a Bid in response to this ITB is certification that the Bidder 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.

#### **Disclosures**

After bids are opened, all information in a submitter's bid is subjected to disclosure under the provisions of Michigan Public Act No. 442 of 1976, as amended (MCL 15.231 et seq.) known as the "Freedom of Information Act." The Freedom of Information Act also provides for the complete disclosure of contracts and attachments thereto except where specifically exempted.

#### **Bid Protest**

All Bid protests must be in writing and filed with the Purchasing Agent within five (5) business days of the award action. The bidder must clearly state the reasons for the protest. If a 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 Agent. The Purchasing Agent 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.

# **Cost Liability**

The City of Ann Arbor assumes no responsibility or liability for costs incurred by the Bidder prior to the execution of a contract with the City. By submitting a bid, a bidder agrees to bear all costs incurred or related to the preparation, submission and selection process for the bid.

# Reservation of Rights

The City of Ann Arbor reserves the right to accept any bid or alternative bid proposed in whole or in part, to reject any or all bids or alternatives bids in whole or in part and to waive irregularity and/or informalities in any bid and to make the award in any manner deemed in the best interest of the City.

#### **INVITATION TO BID**

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, Instructions to Bidders, 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 \_\_\_\_\_, 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	DAY OF	, 201
Bidder's Name		Authorized Sig	gnature of Bidder
Official Address		(Print Name of	Signer Above)
Telephone Number	 r	Email Address	s for Award Notice

# **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 busin	ess under the laws of the St	ate of
, for whom		, bearing the office title
of, whose signature is		
NOTE: If not incorporated in Michig	gan, please attach the corporation's	Certificate of Authority
A limited liability company doing busi whom bearing the title		e State of,
whose signature is affixed to this proposa LLC.	al, is authorized to execute c	ontract on behalf of the
* A partnership, organized under the laws of, whose members are (leach) (attach separate sheet if necessary):	list all members and the stre	
* An individual, whose signature with addre	ess, is affixed to this Bid:	
Authorized Official		(initial here)
	Date	, 201
(Print) Name	Title	
Company:		
Address:		
Contact Phone ( )	Fax ( )	
Email	_	

#### Section 1 – Schedule of Prices

Compan	ny:	
Project:	Veterans Memorial Park Pool Liner Replacement, ITB No	. 4513

#### Notes:

- 1. Bidders are encouraged to but not required to submit bids for all three (3) of the proposed pool liner system options (Bid Options A thru C).
- 2. All bidders shall fully complete the bid table and provide a Unit Price and Total Price for the bid options(s) they are submitting bids on.
- 3. Quantities included in the bid table represent estimated quantities for different work. The CONTRACTOR shall be compensated for the actual number of items completed using the unit prices provided.
- 4. The Owner, at its sole discretion, may elect to delete any portion of the work delineated below, with no change to the unit prices provided. Work shall be determined based upon the availability of funds.
- 5. Any item not provided in the following list shall be considered incidental to the Contract.
- 6. Contract shall be awarded based on the base bid or any combination of the base bid and alternate bid areas in any manner the City believes to be in its best interest.

# **PVC POOL LINER INSTALLATION BID ITEMS**

The Bidder agrees to complete the Project and all related work, as specified for the following unit prices.

BID O	BID OPTION A: PVC LINER INSTALLATIONS (MAIN & TOT POOLS)					
Item No.	Item Description	Qty	Unit	Unit Price	Total Price	
1.	General Conditions, Insurance, Bonds, Mobilization (max. 10% of bid)	1	LS	\$	\$	
2.	Pool Surface Repair	300	SF	\$	\$	
3.	Prepare Pool Surfaces; Install PVC Liners and all Required Components, Performance Testing and all Related Work	1	LS	\$	\$	
4.	Seal Joint In-between Gutter and Concrete Pool Decking	535	LF	\$	\$	
5.	Allowances for Miscellaneous Repairs, Permits, Inspection Fees	1	LS	\$ 25,000.00	\$ 25,000.00	
6.	Demobilization and Project Closeout	1	LS	\$	\$	
7.	Certified Payroll Compliance and Reporting	1	LS	\$	\$	
	TOTAL	BID (IT	EM NO	S. 1 THROUGH 7)	\$	

\_ Dollars (\$\_\_\_\_\_)

(Amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.)

# MARCITE POOL LINER INSTALLATION BID ITEMS

The Bidder agrees to complete the Project and all related work, as specified for the following unit prices.

BID C	BID OPTION B: MARCITE REMOVAL AND RELACEMENT (MAIN &TOT POOLS)				
Item No.	Item Description	Qty	Unit	Unit Price	Total Price
1.	General Conditions, Insurance, Bonds, Mobilization (max. 10% of bid)	1	LS	\$	\$
2.	Pool Surface Repairs	300	SF	\$	\$
3.	Marcite Removal, Replacement, and all Related Components and Work	1	LS	\$	\$
4.	Seal Joint Between Gutter and Concrete Pool Decking	535	LF	\$	\$
5.	Allowance for Miscellaneous Repairs, Permits, and Inspection Fees	1	LS	\$ 25,000.00	\$ 25,000.00
6.	Demobilization and Project Closeout	1	LS	\$	\$
7.	Certified Payroll Compliance and Reporting	1	LS	\$	\$
	TOTAL	\$			

\_ Dollars (\$\_\_\_\_\_)

(Amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.)

# WET-EDGE SATIN MATRIX POOL LINER INSTALLATION BID ITEMS

The Bidder agrees to complete the Project and all related work, as specified for the following unit prices.

	BID OPTION C: MARCITE REMOVAL AND WET-EDGE SATIN MATRIX RELACEMENT (MAIN & TOT POOLS)						
Item No.	Item Description	Qty	Unit		Unit Price		Total Price
1.	General Conditions, Insurance, Bonds, Mobilization (max. 10% of bid)	1	LS	\$		\$	
2.	Pool Surface Repairs	300	SF	\$		\$	
3.	Marcite Removal, Replacement with Wet-Edge Satin Matrix, and all Related Components and Work	1	LS	\$		\$	
4.	Seal Joint Between Gutter and Concrete Pool Decking	535	LF	\$		\$	
5.	Allowances for Miscellaneous Repairs, Permits, and Inspection Fees	1	LS	\$	25,000.00	\$	25,000.00
6.	Demobilization and Project Closeout						
7.	Certified Payroll Compliance and Reporting	1	LS	\$		\$	
	TOTAL BID (ITEM NOS. 1 THROUGH 7)						

Dollars (	Φ.	
Dollars	D	

(Amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.)

#### Section 2 - Material and Equipment Alternates

The Base Bid 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 Contractor 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.

Add/Deduct Amount

Description

	•	<u> </u>				
Kal Bill						
the following	statement:	est any material or	r equipment al	ternate, the Bio	ider MUSI comp	olete
	coutlined in thi ternate under th	is request for bid ne Contract.	, the bidder o	loes NOT prop	ose any materia	al o
Signature of A	Authorized Rep	resentative of Bide	der		Date	

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Item Number

#### Section 3 - Time Alternate

Section 5 - Time Alternate
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 below its proposed time for performance of the work. Consideration will be given to time in evaluating bids.
If the Bidder does not suggest any time alternate, the Bidder ${\bf MUST}$ complete the following statement:
For the work outlined in this request for bid, the bidder does NOT propose any time alternate

Signature of Authorized Representative of Bidder \_\_\_\_\_\_Date \_\_\_\_

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under the Contract.

# Section 4 - Major Subcontractors

For purposes of this Contract, a Subcontractor is anyone (other than the Contractor) who performs work (other than or in addition to the furnishing of materials, plans or equipment) at or about the construction site, directly or indirectly for or on behalf of the Contractor (and whether or not in privity of Contract with the Contractor), but shall not include any individual who furnishes merely the individual's own personal labor or services.

Contractor agrees that all subcontracts entered into by the Contractor shall contain similar wage provision to Section 4 of the General Conditions covering subcontractor's employees who perform work on this contract.

For the work outling subcontractors to p			Bidder expects to	engage the following major
Subcontrac Address)	tor (Name	and	<u>Work</u>	<u>Amount</u>
If the Ridder does n	at avpact to ar	ogago any maio	or subcontractor, th	e Bidder <b>MUST</b> complete the
following statement		igage any majo	or subcontractor, tr	e bidder <b>moo</b> r complete the
For the work outline subcontractor to pe				expect to engage any major
Signature of Author	ized Represer	ntative of Bidde	r	Date
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# Section 5 – References

Include a minimum of three (3) reference from similar project completed within the past five (5) years.

# [Refer also to Instructions to Bidders for additional requirements, if any]

1)			
,	Project Name	Cost	Date Constructed
	Contact Name		Phone Number
2)	Project Name	Cost	
	,		
	Contact Name		Phone Number
3)	Project Name	Cost	
	r roject Name	Cost	Date Constructed
	Contact Name		Phone Number

#### SAMPLE STANDARD CONTRACT

If a contract is awarded, the selected contractor will be required to adhere to a set of general contract provisions which will become a part of any formal agreement. These provisions are general principles which apply to all contractors of service to the City of Ann Arbor such as the following:

#### CONTRACT

THIS AGREEMENT is made on the ANN ARBOR, a Michigan Municipal Co ("City") and	day of prporation, 301 East Huron	Street, Ann	between the CITY OF Arbor, Michigan 48104 ("Contractor")
(An individual/partnership/corporation, inc	clude state of incorporation)		(Address)
Based upon the mutual promises below,	the Contractor and the City	agree as folk	ows:

#### **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 [Insert Title of Bid and Bid Number] in accordance with the requirements and provisions of the following documents, including all written modifications incorporated into any of the documents, 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 Parks and Recreation Services Unit

Project means Veterans Memorial Park Pool Liner Replacement, ITB No. 4513

#### **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 by May 7, 2018
- (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 \$ 750.00 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**

#### **Bid Option A: PVC Liner Installation (Main & Tot Pools)**

(A)	The City shall pay to the Contractor for the performance of the Contract, the lun sum price as given in the Bid Form in the amount of:		
	Dollars (\$)		
Bid Option I	B: Marcite Pool Liner Installation (Main & Tot Pools)		
(B)	The City shall pay to the Contractor for the performance of the Contract, the lump sum price as given in the Bid Form in the amount of:		
	Dollars (\$)		
Bid Option (	C: Wet-Edge Satin Matrix Pool Liner Installation (Main & Tot Pools)		
(C)	The City shall pay to the Contractor for the performance of the Contract, the lump sum price as given in the Bid Form in the amount of:		
	Dollars (\$)		

#### **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 agreement, 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 agreement.

#### **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 harmless 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.

FOR CONTRACTOR	FOR THE CITY OF ANN ARBOR
Ву	Ву
•	Christopher Taylor, Mayor
Its:	_
	[signatures continue on next page]

Jacqueline Beaudry, City Clerk		
Approved as to substance		
By		
Howard S. Lazarus		
City Administrator		
By		
Derek Delacourt		
Services Area Administrator		
Approved as to form and content		
Stephen K. Postema, City Attorney		

# **PERFORMANCE BOND**

(1)			
	of		(referred to as
	"Principal"), andcorporation duly authorized "Surety"), are bound to the 0	to do business in City of Ann Arbor, Mic	the State of Michigan (referred to as chigan (referred to as "City"), for
	\$bind themselves, their heirs and severally, by this bond.	, the , executors, adminis	e payment of which Principal and Surety trators, successors and assigns, jointly
(2)	, 201_, fo	ct in compliance with	Contract with the City dated all Park Pool Liner Replacement and this Act No. 213 of the Michigan Public Acts
(3)	Whenever the Principal is d Surety may promptly remed		to be in default under the Contract, the promptly:
	(a) complete the Contract in	n accordance with its	terms and conditions; or
	accordance with its terms an responsible bidder, arrange available, as work progress	nd conditions, and up for a Contract betwe ses, sufficient funds e; but not exceeding	ne City for completing the Contract in on determination by Surety of the lowest een such bidder and the City, and make to pay the cost of completion less the , including other costs and damages for nt set forth in paragraph 1.
(4)	Surety shall have no obligation under the Contract.	ation to the City if th	e Principal fully and promptly performs
(5)	Surety agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder, or the specifications accompanying it shall in any way affect its obligations on this bond, and waives notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work, or to the specifications.		
SIGNE	ED AND SEALED this	_ day of	, 201
•	e of Surety Company) Signature)	_	(Name of Principal) By
			(Signature)
Its (Tit	le of Office)	_	(Title of Office)
Appro	oved as to form:		Name and address of agent:
Steph	nen K. Postema, City Attorney	_	

# **LABOR AND MATERIAL BOND**

(1)			
	of		(referred to
	as "Principal"), and		, a corporation
	duly authorized to do business in	n the State of Mich	igan, (referred to as "Surety"), are bound
	to the City of Ann Arbor, Michiga	an (referred to as "C	City"), for the use and benefit of claimants
	as defined in Act 213 of Michiga	an Public Acts of 19	963, as amended, being MCL 129.201 <u>et</u>
	seq., in the amount of		
	\$, for the p	payment of which P	rincipal and Surety bind themselves, their
	heirs, executors, administrators,	successors and as	ssigns, jointly and severally, by this bond.
(2)	The Principal has entered a writt	ten Contract with th	ne City, dated, 201_,
	for Veterans Memorial Park Poo	l Liner Replacemer	nt; and this bond is given for that Contract
	in compliance with Act No. 213 c	of the Michigan Pub	olic Acts of 1963 as amended;
(3)	If the Principal fails to promptly	and fully repay cla	imants for labor and material reasonably
	required under the Contract, the	Surety shall pay th	ose claimants.
(4)	ated in paragraph 1, and Surety shall have		
	no obligation if the Principal pror	nptly and fully pays	the claimants.
SIC	GNED AND SEALED this	_ day of	, 201
<del></del>		_	
•	ame of Surety Company)		(Name of Principal)
Бу	(Signature)	_	Ву
			(Signature)
Its	(Title of Office)	_	Its (Title of Office)
	(Title of Office)		(Title of Office)
Ар	proved as to form:		Name and address of agent:
Ste	ephen K. Postema, 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 Agreement a "living wage," as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Agreement are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

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 Contractor shall pay the cost.

# **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 furnished, unless testing has been completed and shows 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 days 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 which may arise under this Contract; whether the act(s) or omission(s) giving rise to the claim were made by the Contractor or by any subcontractor or anyone employed by them directly or indirectly. In the case of all contracts involving on-site work, the Contractor shall provide to the City, before the commencement of any work under this contract, certificates of insurance and other documentation satisfactory to the City demonstrating it has obtained the policies and endorsements required. On behalf of itself, and when requested, any subcontractor(s). The certificates of insurance endorsements and/or copies of policy language shall document that the Contractor satisfies the following minimum requirements.
  - (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 07 98 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 which diminish the City's protections as an additional insured under the policy. The following minimum limits of liability are required:

Each occurrence as respect Bodily Injury Liability or Property
Damage Liability, or both combined.
Per Job General Aggregate
Personal and Advertising Injury
Products and Completed Operations Aggregate

- (c) Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, equivalent to, as a minimum, Insurance Services Office form CA 00 01 07 97 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 which 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.

- (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 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; name of insurance company; name and address of the agent or authorized representative; name and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions which shall 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) 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 admitted and 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-admitted 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	e period	, 20, to	o, 20
, performed any work, furnished any mater			
done anything in addition to the regular iter			
titled, fo			
compensation or extension of time from t			
compensation or extension of time as se	•	•	
declare that I have paid all payroll obligation			
the above period and that all invoices relat			•
this declaration have been paid in full exce			oo aayo p to
and account nave been para in rail except			
There is/is not (Contractor please circle on	e and strike one as apr	ropriate) an	itemized statement
attached regarding a request for additiona		• •	
3			
Contractor	Date		
Ву			
(Signature)			
(0.9)			
Its			
(Title of Office)			
(1.1.3 3. 31100)			
Past due invoices, if any, are listed below			
, ,, ,, ,, ,			

# **Section 44**

# **CONTRACTOR'S AFFIDAVIT**

The undersigned Contractor,		, represents that on _	
The undersigned Contractor,	City of Ann Arbor,	Michigan to	under
the terms and conditions of a Contract tit	led		The Contractor
represents that all work has now been ac	complished and th	e Contract is complet	e.
The Contractor warrants and certifies that has been fully paid or satisfactorily secur for labor and material used in accomplish the performance of the Contract, have be agrees that, if any claim should hereafte upon request to do so by the City of Ann and the contract of the Contract.	red; and that all claning the project, as been fully paid or a raise, it shall ass	aims from subcontrac s well as all other clai satisfactorily settled.	tors and others ms arising from The Contractor
The Contractor, for valuable consideration any and all claims or right of lien which the premises for labor and material used in the	e Contractor now	has or may acquire u	pon the subject
This affidavit is freely and voluntarily give	n with full knowled	ge of the facts.	
Contractor	Date		
By(Signature)			
Its(Title of Office)			
Subscribed and sworn to before me, on th	nis day of County,	, 20 Michigan	
Notary Public			
County, MI			
My commission expires on:			

# **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**

#### **GENERAL REQUIREMENTS**

#### **PART 1 - GENERAL**

# 1.1 DESCRIPTION OF WORK

- A. Work under this Contract consists of the installation of PVC pool liners (Bid Option A), or the replacement of marcite surfaces with new marcite surfaces (Bid Option B), or the replacement of the marcite surfaces with wet-edge satin matrix surfaces (Bid Option C) in the main and tot outdoor pools at Veterans Memorial Park Pool.
- B. For the installation of PVC pool liners the work shall include but not be limited to the following: Mobilization; Repair and preparation of the pool surfaces to receive the PVC liners; installation of the fleece separator layers and PVC liners; seal all the edges, joints and penetrations, installation of compression strips, rings, drive rivets lane markers and lane targets; leak testing, clean-up, demobilization, pool filling, and yearly follow-up site visits.
- C. For the replacement of existing marcite with new marcite surfaces the work shall include but not be limited to the following: Mobilization; removal of existing marcite surfaces; dust removal, bond coat application, protection of existing tile and appurtenances, installation of new marcite surface; seal all the edges, joints and penetrations, installation of compression strips, rings, drive rivets lane markers and lane targets; leak testing, clean-up, demobilization, pool filling, and yearly follow-up site visits.
- D. For the replacement of existing marcite with installation of wet-edge satin matrix surfaces the work shall include but not be limited to the following: Mobilization; removal of existing marcite surfaces; dust removal, bond coat application, protection of existing tile and appurtenances, installation of new wet-edge surface; seal all the edges, joints and penetrations, installation of compression strips, rings, drive rivets lane markers and lane targets; leak testing, clean-up, demobilization, pool filling, and yearly follow-up site visits.
- E. BIDDER/CONTRACTOR is responsible for visiting the site and taking adequate measurements to determine all required material quantities, gutter and appurtenance types and sizes. These quantities, together with all the labor, equipment utilization, and miscellaneous items and/or activities for a complete installation, shall be the basis of the bid price.
- F. It is the intent of these Contract Documents that the CONTRACTOR provides a complete and finished product. Items shown on the Drawings and Specifications not specifically connected to a heading in the Bid Form are to be considered as incidental to the work.

#### 1.2 EXISTING FACILITIES ACCESS

- A. The CONTRACTOR shall be responsible for maintaining safe access for City staff to the existing facility areas beyond the work zones.
- B. Access to such parts of the facility shall not be temporarily disrupted without coordination with and prior approval of the OWNER.
- C. Prior to commencing work, the CONTRACTOR shall submit to the OWNER a plan for bringing construction traffic to and from the site.
- D. Direct access to the pool areas for equipment and materials is available.

#### 1.3 NOTIFICATION OF UTILITIES

(NOT USED)

#### 1.4 WORK SCHEDULE

- A. The CONTRACTOR shall perform the Veterans Memorial Park work prior to May 15, 2018.
- B. The CONTRACTOR shall provide a work schedule. The schedule shall be complete and shall show in detail the manner in which he proposes to complete the work under this Contract and approximate monthly billing of the Contract. The purpose of the schedule is to assist the OWNER in notifying the public of inconveniences and to anticipate cash-flow on the job, and to determine if the CONTRACTOR is reasonably proceeding with the work to assure completion within the specified time.
- C Work hours shall be restricted to Monday through Friday, 7AM to 7PM. Work shall not be conducted on City holidays. Exceptions to work hour limits shall by only by written permission of the OWNER.
- D. Work on Saturdays and Sundays is permitted with permission from the OWNER.

# 1.5 CONSTRUCTION SEQUENCE

- A. The CONTRACTOR shall coordinate and schedule his work with the OWNER when his operation may affect access to existing facilities.
- B. Prior to commencing the work, the CONTRACTOR shall provide the ENGINEER a detailed schedule of the proposed work. The schedule shall include a list of tasks required to complete the work; their relevancy to each other; expected duration; and completion dates.
- C. The CONTRACTOR is responsible for presenting a sequence with schedule to the OWNER/ENGINEER for review. All proposed improvements shall be constructed only in accordance with an approved schedule.

# 1.6 TRAFFIC MAINTENANCE

- A. The parking lot at Fuller Pool is not available for use. CONTRACTOR shall coordinate construction crew and vehicle parking with Fuller Pool City staff.
- B. In the event of the CONTRACTOR's failure to comply with these provisions, the OWNER may with or without notice, cause the same to be done; and will deduct the cost of such work from any money due or to become due the CONTRACTOR under this Contract, but the performance of such work by the OWNER or at the OWNER's insistence, shall serve in no way to release the CONTRACTOR from their general or particular liability for the safety of the Public or the work.
- C. Access to fire hydrants and water valves shall always be maintained. The CONTRACTOR's truck and equipment operations on public streets shall be governed by City or County regulations as applicable, and all other local traffic ordinances, and regulations of the Fire and Police Departments.
- D. Payment for traffic maintenance, the furnishing of flaggers, barricades, signs, flashers and maintenance of these shall be incidental to the Contract.

# 1.7 TESTING

- A. Testing shall be conducted per those described in Sections 01450.
- B. The CONTRACTOR shall provide and pay for a testing laboratory, approved by the ENGINEER, to provide any required testing.

C. Copies of all test reports shall be provided to the ENGINEER and to the OWNER.

#### 1.8 DUST CONTROL

- A. All demolition activities shall be monitored by the CONTRACTOR to assure that the area around the immediate construction site is maintained in a dust free condition during the life of this Contract. The control of the dust shall be accomplished by the application of dust control materials and methods of application as approved and as directed by the ENGINEER. Such dust control materials shall be applied as often as is necessary to control the dust.
- B. Cost of providing dust control shall be incidental to the project.
- C. Should the CONTRACTOR be negligent in providing dust control, the OWNER may, with or without notice, cause the same to be done and deduct the cost of such work from any monies due or to become due the CONTRACTOR under this Contract, but the performance of such work by the OWNER, or by the OWNER's direction, shall service in no way to release the CONTRACTOR from liability for dust control.

# 1.9 DIGITAL PHOTOGRAPHIC RECORD

- A. The CONTRACTOR shall furnish to the OWNER a digital video or photographic record for the pool areas included for improvement and all access ways to the work area. Areas to be photographed include the pool area and all appurtenances included in the project work. In general, the CONTRACTOR shall include parking lots, access paths for construction traffic, pool deck, gutters, ladders and ramps, storage and staging areas and other areas that may be impacted by his activities.
- B. The video or photographs shall be stored on a CD or DVD of such quality to accurately show the existing conditions. The record shall be produced one (1) week prior to the placement of materials or equipment in the construction area.
- C. The record shall include overview shots of each entire area; and detailed shots of key features, including targets, lane markers, ramps, rails, ladders, lights, drains, gutters, etc. The photographs shall be ordered in sequential sets as follows: photograph of a sign board identifying each separate area; overview shots or shots of that area; and detailed views relevant only to that particular area. The overview shots should enable to viewer to identify both the area in question and the particular items that are shown in detail in the shots immediately following.
- D. The video or photographs must be recorded while the visibility is clear and at no time will it be allowed during periods of ground cover.
- E. The photographic record shall include date, time, and location at appropriate intervals.

# 1.10 PROJECT PROGRESS MEETING

A. It shall be the responsibility of the CONTRACTOR to have a representative, including key subcontractors, present at each meeting. The CONTRACTOR shall be available for meetings which shall be held at least twice a month as necessary.

# 1.11 METHOD OF MEASUREMENT AND BASIS OF PAYMENT

A. GENERAL

The method of measurement and the basis of payment for each item in the Proposal will be as specified in the schedule attached. The items are generally grouped by the section of the Specifications under which the particular unit of work is detailed. There will be no payment allowed for any unit of work not specifically mentioned in the Proposal as a bid

item, and any such unit of work not mentioned in the Proposal, but necessary for the completion of the Project, will be considered as incidental to the construction of the Project.

# B. MEASUREMENT

Quantities of work completed under the Contract will be measured by the ENGINEER according to the United States standard measures. When tons are specified, the unit shall be the ton of 2000 pounds. When measurements are stated in miles, stations, acres, they will be horizontal measurements unless specified otherwise. Where measurements are specified to be "in place," they will be taken along the actual surface of the completed item to obtain lineal, area, or volume measurements.

# C. PAYMENT

In each and every instance in the following Measurement and Payment Schedule, where a Basis of Payment is specified, it shall be understood to be prefaced by the following statement, "The Contract Unit Price Bid in the Proposal will be payment in full for all labor, materials, and equipment necessary to do the following according to the Specifications." Payment shall be made on the basis of the actual quantity of the item completed and accepted at the unit price for such item named in the Proposal.

#### **BID ITEMS**

# ITEM IN PROPOSAL METHOD OF MEASUREMENT BASIS OF PAYMENT

# PVC LINER BID OPTION A

General Conditions, Insurance, Bonds Mobilization By the unit lump sum (LS).

The complete cost of insurance, bonds, permits and mobilization for the project and other requirements of General Conditions. Includes offices, stores, conveniences, and temporary facilities, site preparation, whatever means CONTRACTOR deems necessary for accessing the work, organizing the project, coordination with OWNER, ENGINEER, third parties and subcontractors, obtaining all permits, fees, inspection permit permit Drawings, requirements, Shop paperwork, bringing equipment to the site as required, management of job, leak testing for the new liners and seals, and all related work. Any costs assumed to be above and beyond the value of this pay item shall be incidental to other pay items in the Contract. The maximum amount of this item shall be 10% of the total project cost.

Pool Surface Repair

By the unit square foot (SF).

Perform any pool surface repairs necessary from summer usage including demolition, surface preparation, saturated surface dry conditions, repair, wet curing and all related work to achieve an acceptable substrate to receive the liner.

Prepare Pool Surface; Install PVC Liners, and all required components, all testing and all related work in both the Main pool and the Tot pool.

By the unit lump sum (LS).

Preparation of entire pool wall and floor surface including floor drain and inlet openings, corners, steps, gutters, and all other existing relevant appurtenances, installation of the fleece separator, PVC liner and pool markings. Seal all joints, penetrations, corners and edges with appropriate sealants, compression strips and rings and all related work, for a complete and leak-free installation.

Seal Joint Between Pool Gutter and Concrete Pool Decking

By the unit linear feet (LF).

Clean and remove existing joint sealer from joint and install new backer rod and seal joint.

Demobilize and Closeout Project

By the unit lump sum (LS).

Removal of equipment from the site, Cleanup and return of all OWNER facilities to full use.

VETERANS MEMORIAL PARK POOL LINER REPLACEMENT

# ITEM IN PROPOSAL METHOD OF MEASUREMENT BASIS OF PAYMENT

Allowances – Miscellaneous Repairs, permits By the unit lump sum (LS).

Funding for miscellaneous repairs and permits as determined necessary and approved by the OWNER. This excludes work called out under other Bid Items.

Certified Payroll Compliance and Reporting By the unit lump sum (LS).

Follow all the required payroll compliance requirements as specified in Section 01100 of the Contract Documents.

# MARCITE BID OPTION B

General Conditions, Insurance, Bonds Mobilization By the unit lump sum (LS).

The complete cost of insurance, bonds, permits and mobilization for the project and other requirements of General Conditions. Includes offices, stores, conveniences, and other temporary facilities, site preparation, and whatever means CONTRACTOR deems necessary for accessing the work, organizing the project, coordination with OWNER, ENGINEER, third parties and subcontractors, obtaining all permits, permit inspection fees. permit requirements, Shop Drawings, paperwork, bringing equipment to the site as required, management of job, leak testing for the new marcite, and all related work. Any costs assumed to be above and beyond the value of this pay item shall be incidental to other pay items in the Contract. The maximum amount of this item shall be 10% of the total project cost.

Marcite Removal, Replacement and all Related Components and Work By the unit lump sum (LS).

Removal of all existing marcite surfaces to original substrate by blasting or chipping, material disposal, dust removal, bond coat application, accommodation of existing tile, appurtenances, wall and floor surface openings, installation of new marcite surface, curing, assisting with pool filling, and all related work, for a complete and leak-free installation.

Seal Joint Between Pool Gutter and Concrete Pool Decking By the unit linear feet (LF).

Clean and remove existing joint sealer from joint and install new backer rod and seal joint.

Demobilize and Closeout Project

By the unit lump sum (LS).

Removal of equipment from the site, Cleanup and return of all OWNER facilities to full use.

#### ITEM IN PROPOSAL METHOD OF MEASUREMENT **BASIS OF PAYMENT**

Allowances -Miscellaneous Repairs,

permits

By the unit lump sum (LS).

Funding for miscellaneous repairs and permits as determined necessary and approved by the OWNER. excludes work called out under other Bid Items.

Certified Payroll Compliance and Reporting

By the unit lump sum (LS).

Follow all the required payroll compliance requirements as specified in Section 01100 of the Contract Documents.

# **WET-EDGE SATIN MATRIX BID OPTION C**

General Conditions, Insurance, Bonds Mobilization

By the unit lump sum (LS).

The complete cost of insurance, bonds, permits and mobilization for the project and other requirements of General Conditions. Includes offices, stores, conveniences, and other temporary facilities, site preparation. and whatever means CONTRACTOR deems necessary for accessing the work, organizing the project, coordination with OWNER, ENGINEER, third parties and subcontractors, obtaining all permits, inspection permit fees, permit Drawings, requirements, Shop paperwork, bringing equipment to the site as required, management of job, leak testing for the new marcite, and all related work. Any costs assumed to be above and beyond the value of this pay item shall be incidental to other pay items in the Contract. The maximum amount of this item shall be 10% of the total project cost.

Marcite Removal, Replacement with Wet-Edge Satin Matrix and all Related Components and Work

By the unit lump sum (LS).

Removal of all existing marcite surfaces to original substrate by blasting or chipping, material disposal, dust removal, bond coat application, accommodation of existing appurtenances, wall and floor surface openings, installation of new wet-edge surface, curing, assisting with pool filling, and all related work, for a complete and leak-free installation.

ITEM IN PROPOSAL	METHOD OF MEASUREMENT	BASIS OF PAYMENT
Seal Joint Between Pool Gutter and Concrete Pool Decking	By the unit linear feet (LF).	Clean and remove existing joint sealer from joint and install new backer rod and seal joint.
Demobilize and Closeout Project	By the unit lump sum (LS).	Removal of equipment from the site, Cleanup and return of all OWNER facilities to full use.
Allowances – Miscellaneous Repairs, permits	By the unit lump sum (LS).	Funding for miscellaneous repairs and permits as determined necessary and approved by the OWNER. This excludes work called out under other Bid Items.
Certified Payroll Compliance and Reporting	By the unit lump sum (LS).	Follow all the required payroll compliance requirements as specified in Section 01100 of the Contract Documents.

# **SUMMARY OF WORK**

#### PART 1 – GENERAL

# 1.1 SUMMARY OF WORK

- A. Work under this Contract consists of performing any and all repairs and other work that is required for the installation of a new PVC pool liner, or Marcite pool liner, or Wet-Edge Pool Liner system to replace the existing Marcite liner system, and related items and work at the City of Ann Arbor's Veterans Memorial Park swimming and tot pools.
- B. The work at the two sites will be considered separate bid items. An Alternate is offered where the BIDDER can propose a cost deduct for being awarded both projects together.
- C. The foregoing general description(s) shall not be construed as a complete description of all work required.

# 1.2 CONTRACT DOCUMENTS

- A. The Work to be done is shown on the set of Specifications entitled Veterans Memorial Park Pool Liner Replacement. All Appendices, so enumerated, shall be considered an integral part of the Contract Documents as defined herein.
- B. Certain Document Sections refer to Divisions of the Contract Specifications. Sections are each individually numbered portions of the Specifications (numerically) such as 08110, 13182, 15206, etc. The term Division is used as a convenience term meaning all Sections within a numerical grouping. Division 16 would thus include Sections 16000 through 16955.
- C. Where references in the Contract Documents are made to CONTRACTORS for specific disciplines of work (e.g. Electrical CONTRACTOR, etc.), these references shall be interpreted to be the single prime CONTRACTOR when the project is bid or awarded as a single prime contract.
- D. The prime CONTRACTOR shall be responsible for all work in the Contract Documents regardless of the division of disciplines. Additionally, the prime CONTRACTOR shall self-perform at least 40% of the work.
- E. The CONTRACTOR shall be responsible for the production of his construction sets.

# 1.3 GENERAL ARRANGEMENT

- A. Specifications outline the extent and general description of the work. If any departures from the Specifications are deemed necessary by the CONTRACTOR to accommodate the materials and equipment CONTRACTOR proposes to furnish, details of such departures and reasons therefore shall be submitted as soon as practicable to the ENGINEER for approval by OWNER and ENGINEER. No such departures shall be made without the prior written approval of the OWNER or ENGINEER. Approved changes shall be made without additional cost to the OWNER for this work or related work under other Contracts of the Project.
- B. The specific equipment proposed for use by the CONTRACTOR on the project may require changes in structures, auxiliary equipment, piping, electrical, mechanical, controls or other work to provide a complete satisfactory operating installation. The CONTRACTOR shall submit to the ENGINEER, for approval by OWNER and ENGINEER, all necessary Drawings and details showing such changes to verify conformance with the overall project structural and architectural requirements and overall project operating performance. The Bid Price shall include all costs in connection with the preparation of drawings and details

and all changes to construction work to accommodate the proposed equipment, including increases in the costs of other Contracts.

# 1.4 CONSTRUCTION PERMITS, EASEMENTS AND ENCROACHMENTS

- A. The OWNER shall obtain or cause to be obtained all permanent and temporary construction easements required. No easements are anticipated for this project.
- B. The CONTRACTOR shall apply for, obtain, keep current and pay all fees for any other necessary construction permits from those authorities, agencies, or municipalities having jurisdiction over land areas, utilities, or structures which are located within the Contract limits and which will be occupied, encountered, used, or temporarily interrupted by the CONTRACTOR's operations unless otherwise stated. CONTRACTOR shall pay plan review fees and any other fees for required permits. Record copies of all permits shall be furnished to the ENGINEER and OWNER.
- C. When construction permits are accompanied by regulations or requirements issued by a particular authority, agency or municipality, it shall be the CONTRACTOR's responsibility to become familiar with and comply with such regulations or requirements as they apply to CONTRACTOR's operations on this Project.
- D. The CONTRACTOR will be required to follow the requirements established by all permits necessary for the construction of this project. The following is a list of all permits that must be obtained prior to the beginning of construction.
  - 1. Applicable State, County and City Permits (all necessary trades).
- E. All permits shall be applied for and paid for by the CONTRACTOR. The CONTRACTOR must submit a copy of these permits to the ENGINEER prior to construction.

# 1.5 ADDITIONAL ENGINEERING SERVICES

- A. In the event that the ENGINEER is required to provide additional engineering services as a result of substitution of materials or equipment which are not "or equal" by the CONTRACTOR, or changes by the CONTRACTOR in dimension, weight, power requirements, etc., of the equipment and accessories furnished, or if the ENGINEER is required to examine and evaluate any changes proposed by the CONTRACTOR for the convenience of the CONTRACTOR, then the ENGINEER's charges in connection with such additional services shall be charged to the CONTRACTOR by the OWNER.
- B. In the event that the ENGINEER is required to provide additional engineering services as a result of CONTRACTOR's errors, omissions, or failure to conform to the requirements of the Contract Documents, or if the ENGINEER is required to examine and evaluate any changes proposed by the CONTRACTOR solely for the convenience of the CONTRACTOR, then the ENGINEER's charges in connection with such additional services shall be charged to the CONTRACTOR by the OWNER.

# 1.6 ADDITIONAL OWNER'S EXPENSES

A. In the event the Work of this Contract is not completed within the time set forth in the Contract or within the time to which such completion may have been extended in accordance with the Contract Documents, the additional engineering or inspection charges incurred by the OWNER may be charged to the CONTRACTOR and deducted from the monies due the CONTRACTOR. Extra work or supplemental Contract work added to the original Contract, as well as extenuating circumstances beyond the control of the CONTRACTOR, will be given due consideration by the OWNER before assessing engineering and inspection charges against the CONTRACTOR.

- B. Charges assessed to the CONTRACTOR for additional engineering and inspection costs will be determined based on actual hours charged to the job by the ENGINEER. Hourly rates will depend on the number and classifications of employees involved, but in no case shall such charges exceed \$150 per hour for field personnel and \$150 per hour for engineering personnel.
- C. Charges for additional OWNER's expenses shall be in addition to any liquidated damages assessed in accordance with the Contract.

# 1.7 PROTECTION OF WORK

A. Unless otherwise specifically permitted, all work that would be subject to damage shall be stopped during inclement, stormy or freezing weather. Only such work as will not suffer injury to workmanship or materials will be permitted. CONTRACTOR shall carefully protect the work against damage or injury from the weather, and when work is permitted during freezing weather, CONTRACTOR shall provide and maintain approved facilities for heating the materials and for protecting the finished work.

# 1.8 FIRE PROTECTION

- A. CONTRACTOR shall take all necessary precautions to prevent fires at or adjacent to the work, buildings, etc., and shall provide adequate facilities for extinguishing fires which do occur. Burning of debris is not permitted on the project site.
- B. When fire or explosion hazards are created in the vicinity of the work as a result of the locations of fuel tanks, or similar hazardous utilities or devices, the CONTRACTOR shall immediately alert the local Fire Marshal, the ENGINEER, and the OWNER of such tank or device. The CONTRACTOR shall exercise all safety precautions and shall comply with all instructions issued by the Fire Marshal and shall cooperate with the OWNER of the tank or device to prevent the occurrence of fire or explosion.
- C. Fire protection alarm and detection systems shall comply with the Michigan International Building Code 2015 and NFPA standards.
- D. Hydrants must be maintained in service and operational during all phases of work.
- E. Storage area for construction materials must not interfere with fire/emergency site access.
- F. All material demolished from site should not be stored on location.

# 1.9 CHEMICALS

- A. All chemicals used during project construction or furnished for project operation, whether herbicide, pesticide, disinfectant, polymer, or reactant of other classification, must show approval of either the EPA or USDA. Use of all such chemicals and disposal of residues shall be in strict conformance with all applicable rules and regulations.
- B. Provide OWNER with material safety data sheets (MSDS) for all chemicals.

# 1.10 FIRST AID FACILITIES AND ACCIDENTS

- A. First Aid Facilities
  - The CONTRACTOR shall provide at the site such equipment and facilities as are necessary to supply first aid to any of CONTRACTOR's personnel who may be injured in connection with the work.

#### B. Accidents

- 1. The CONTRACTOR shall promptly report, in writing, to the ENGINEER and OWNER all accidents whatsoever out of, or in connection with, the performance of the work, whether on or adjacent to the site, which cause death, personal injury or property damage, giving full details and statements of witnesses.
- 2. If death, serious injuries, or serious damages are caused, the accident shall be reported immediately by telephone or messenger to both the OWNER and the ENGINEER.
- 3. If any claim is made by anyone against the CONTRACTOR or a Subcontractor on account of any accidents, the CONTRACTOR shall promptly report the facts, in writing, to the ENGINEER and OWNER, giving full details of the claim.

# 1.11 ULTIMATE DISPOSITION OF CLAIMS BY ONE CONTRACTOR ARISING FROM ALLEGED DAMAGE BY ANOTHER CONTRACTOR

- A. During the progress of the work, other CONTRACTORS may be engaged in performing other work or may be awarded other Contracts for additional work on this project and/or on this site. In that event, the CONTRACTOR shall coordinate the work to be done hereunder with the work of such other CONTRACTORS and the CONTRACTOR shall fully cooperate with such other CONTRACTORs and carefully fit its own work to that provided under other Contracts as may be directed by the OWNER. The CONTRACTOR shall not commit or permit any act which will interfere with the performance of work by any other CONTRACTOR.
- B. If the OWNER shall determine that the CONTRACTOR is failing to coordinate this work with the work of the other CONTRACTORS as the OWNER directed, then the OWNER shall have the right to withhold any payments otherwise due hereunder until the CONTRACTOR completely complies with the OWNER's directions.
- C. If the CONTRACTOR notifies the OWNER in writing that another CONTRACTOR is failing to coordinate his work with the work of this Contract as directed, the OWNER will promptly investigate the charge. If the OWNER finds it to be true, he will promptly issue such directions to the other CONTRACTOR with respect thereto as the situation may require. The OWNER, the ENGINEER, nor any of their agents shall not, however, be liable for any damages suffered by the CONTRACTOR by reason of the other CONTRACTOR's failure to promptly comply with the directions so issued by the OWNER, or by reason of another CONTRACTOR's default in performance, it being understood that the OWNER does not guarantee the responsibility or continued efficiency of any CONTRACTOR.
- D. The CONTRACTOR shall indemnify and hold the OWNER and the ENGINEER harmless from any and all claims of judgments for damages and from costs and expenses to which the OWNER may be subjected or which it may suffer or incur by reason of the CONTRACTOR's failure to comply with the OWNER's directions promptly.
- E. Should the CONTRACTOR sustain any damage through any act or omission of any other CONTRACTOR having a Contract with the OWNER for the performance of work upon the site or of work which may be necessary to be performed for the proper execution of the work to be performed hereunder, or through any act or omission of a Subcontractor of such Contract, the CONTRACTOR shall have no claim against the OWNER or the ENGINEER for such damage, but shall have a right to recover such damage from the other CONTRACTOR.
- F. Should any other CONTRACTOR having or who shall hereafter have a Contract with the OWNER for the performance of work upon the site sustain any damage through any act or omission of the CONTRACTOR hereunder or through any act or omission of any Subcontractor of the CONTRACTOR, the CONTRACTOR agrees to reimburse such other CONTRACTOR for all such damages and to defend at his own expense any suit based

upon such claim and if any judgment or claims against the OWNER shall be allowed, the CONTRACTOR shall pay or satisfy such judgment or claim and pay all costs and expenses in connection therewith and shall indemnify and hold the OWNER harmless from all such claims.

G. The OWNER's right to indemnification hereunder shall in no way be diminished, waived or discharged, by its recourse to assessment of liquidated damages as provided in the Contract, or by the exercise of any other remedy provided for by Contract Documents or by law.

# 1.12 LIMITS OF WORK AREA

A. The CONTRACTOR shall confine the construction operations within the Contract limits shown on the Drawings and/or property lines and/or fence lines. Storage of equipment and materials, or erection and use of sheds outside of the Contract limits, if such areas are the property of the OWNER, shall be used only with the OWNER's approval. Such storage or temporary structures, even within the Contract's limits, shall be confined to the OWNER's property and shall not be placed on properties designated as easements or rights-of-way unless specifically permitted elsewhere in the Contract Documents.

# 1.13 WEATHER CONDITIONS

A. No work shall be done when the weather is unsuitable. The CONTRACTOR shall take necessary precautions (in the event of impending storms) to protect all work, materials, or equipment from damage or deterioration due to floods, driving rain, or wind, and snow storms. The OWNER reserves the right to order that additional protection measures over and beyond those proposed by the CONTRACTOR, be taken to safeguard all components of the Project. The CONTRACTOR shall not claim any compensation for such precautionary measures so ordered, nor claim any compensation from the OWNER for damage to the work from weather elements.

# 1.14 USE OF FACILITIES BEFORE COMPLETION

(NOT USED)

# 1.15 DELIVERY, STORAGE, AND HANDLING

A. All materials, supplies and equipment, whether furnished by the CONTRACTOR or by the OWNER, shall be delivered, stored and handled as to prevent the inclusion of foreign materials and/or damage by water, sun, freezing, breakage or other causes. The ENGINEER may require the CONTRACTOR to provide an enclosed storage shed for the storage of the above-mentioned materials, supplies and equipment. Packaged materials shall be delivered in the original unopened containers and shall be stored until ready for use. All materials which have been stored shall meet the requirements of the Specifications at the time they are used in the project.

# **PART 2 - PRODUCTS**

(NOT USED)

# **PART 3 – EXECUTION**

(NOT USED)

# **CERTIFIED PAYROLL COMPLIANCE AND REPORTING**

#### **PART 1 - GENERAL**

# 1.1 DESCRIPTION

- A. This specification covers all administrative requirements, payroll reporting procedures to be followed by Contractors performing work on City-sponsored public improvements projects, and all other miscellaneous and incidental costs associated with complying with the applicable sections of the City of Ann Arbor Code of Ordinances with regard to payment of prevailing wages and its Prevailing Wage Compliance policy.
- B. This specification is **not** intended to include the actual labor costs associated with the payment of prevailing wages as required. Those costs should be properly incorporated in all other items of work bid.

#### 1.2 GENERAL

- A. The Contractor is expected to comply with all applicable sections of Federal and State prevailing wage laws, duly promulgated regulations, the City of Ann Arbor Code of Ordinances, and its Prevailing Wage Compliance Policy as defined within the contract documents. The Contractor shall provide the required certified payrolls, city-required declarations, and reports requested elsewhere in the contract documents within the timeline(s) stipulated therein.
- B. The Contractor shall also provide corrected copies of any submitted documents that are found to contain errors, omissions, inconsistencies, or other defects that render the report invalid. The corrected copies shall be provided when requested by the Supervising Professional.
- C. The Contractor shall also attend any required meetings as needed to fully discuss and ensure compliance with the contract requirements regarding prevailing wage compliance. The Contractor shall require all employees engaged in on-site work to participate in, provide the requested information to the extent practicable, and cooperate in the interview process. The City of Ann Arbor will provide the needed language interpreters in order to perform wage rate interviews or other field investigations as needed.
- D. Certified Payrolls may be submitted on City-provided forms or forms used by the Contractor, as long as the Contractor's forms contain all required payroll information. If the Contractor elects to provide their own forms, the forms shall be approved by the Supervising Professional prior to the beginning of on-site work.

#### 1.3 UNBALANCED BIDDING

- A. The City of Ann Arbor will examine the submitted cost for this item of work prior to contract award. If the City determines, in its sole discretion, that the costs bid by the Contractor for complying with the contract requirements are not reasonable, accurately reported, or may contain discrepancies, the City reserves the right to request additional documentation that fully supports and justifies the price as bid. Should the submitted information not be determined to be reasonable or justify the costs, the City reserves the right to pursue award of the contract to the second low bidder without penalty or prejudice to any other remedies that it may have or may elect to exercise with respect to the original low-bidder.
- B. The Contract Completion date will not be extended as a result of the City's investigation of the as-bid amount for this item of work, even if the anticipated contract award date must be adjusted. The only exception will be if the Contractor adequately demonstrates that their costs were appropriate and justifiable. If so, the City will adjust the contract completion date by the number of calendar days commensurate with the length of the investigation, if

the published Notice to Proceed date of the work cannot be met. The contract unit prices for all other items of work will not be adjusted regardless of an adjustment of the contract completion date being made.

#### 1.4 MEASUREMENT AND PAYMENT

A. The completed work as measured for this item of work will be paid for at the Contract Unit Price for the following Contract (Pay) Item:

# **Contract Item (Pay Item)**

**Pay Unit** 

Certified Payroll Compliance and Reporting ......Lump Sum

- B. The unit price for this item of work shall include all supervisory, accounting, administrative, and equipment costs needed to monitor and perform all work related to maintaining compliance with the tasks specified in this Detailed Specification, the City of Ann Arbor Code of Ordinances, its Prevailing Wage Compliance policy and the applicable Federal and State laws.
- C. Payment for this work will be made with each progress payment, on a pro-rata basis, based on the percentage of construction completed. When all of the work of this contract has been completed, the measurement of this item shall be 1.0 times the Lump Sum bid amount. This amount will not be increased for any reason, including extensions of time, extra work, and/or adjustments to existing items of work.

# **PART 2 - PRODUCTS**

(NOT USED)

# **PART 3 - EXECUTION**

(NOT USED)

# **WORK RESTRICTIONS**

#### **PART 1 - GENERAL**

# 1.1 SUMMARY

- A. Veterans Memorial Park The proposed pool liner installations in the main pool and tot pool are intended to be completed during the spring months prior to the pool opening, when the pool facility is closed for the season and is essentially unoccupied. The CONTRACTOR shall complete the contract work within the time period indicated in the contract documents such that construction is complete before the pool opening during the Memorial Day weekend.
- B. The CONTRACTOR has the option of providing temporary facilities that can eliminate a constraint, provided it is done without cost to the OWNER and provided that all requirements of these Specifications are fulfilled. Work not specifically covered in the following paragraphs may, in general, be done at any time during the contract period, subject to the operating requirements and constraints, and construction requirements outlined hereinafter. All references to days in this Section shall be consecutive calendar days.

# 1.2 GENERAL CONSTRAINTS

- A. The CONTRACTOR shall schedule the Work such that delivery, service and emergency vehicle access is maintained to the facility buildings such that required facility maintenance operations can continue during the construction period except during approved process interruptions. These interruptions shall be coordinated with the OWNER beforehand.
- B. The CONTRACTOR shall coordinate with the OWNER beforehand any activities that would temporarily impact facility access, security, or ongoing facility operations such as removal of fencing, or extended occupation of parking areas, walkways, or lawn areas.
- C. After any damage to the existing facilities by the CONTRACTOR's Work that, in the opinion of the OWNER, constitutes an emergency, the CONTRACTOR shall be immediately available and provide immediate services for the repair of damage and mitigation of the emergency.

# 1.3 GENERAL REQUIREMENTS

- A. Access to Facility Building and Parking Areas
  - An unobstructed traffic route shall be maintained at all times for commuters and the OWNER's operations personnel and maintenance equipment and persons involved in facility programs to parking areas.
- B. Materials and Equipment Deliveries
  - 1. An unobstructed traffic route shall be maintained at all times for the OWNER's operations personnel, maintenance equipment, and delivery vehicles.

# 1.4 SPECIFIC OPERATIONAL CONSTRAINTS

A. The General CONTRACTOR shall take all necessary measures to protect the exterior building masonry, doors and windows, and all facility equipment, fixtures and appurtenances from damage during construction activities. The costs of said protective measures shall be incidental to project costs.

# **ALLOWANCES**

#### **PART 1 - GENERAL**

# 1.1 SECTION INCLUDES

A. Cash Allowances

# 1.2 **DEFINITIONS**

A. Cash Allowance: A monetary sum that includes, as part of the Contract Price, the associated costs and requirements to complete the specified allowance.

#### 1.3 SUBMITTALS

A. Submit detailed invoices to indicate the work performed or delivery slips to indicate actual quantities of materials delivered to the site for use in fulfillment of each allowance.

# 1.4 OWNER'S INSTRUCTIONS

- A. At the earliest feasible date after contract award the CONTRACTOR shall notify all utility companies and begin coordination efforts in order to avoid delay in performance of the work.
- B. Use allowances only as directed for OWNER's purposes, and only by Change Orders which designate amounts to be charged to the allowance.
- C. If the actual price for the specified allowance is more or less than the stated allowance, the Contract Price shall be adjusted accordingly by Change Order. The adjustment in Contract Price shall be made in accordance with the General Conditions.
- D. At project closeout, any amounts remaining in allowances will be credited to OWNER by Change Order.

#### **PART 2 - PRODUCTS**

(NOT USED)

# **PART 3 - EXECUTION**

#### 3.1 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related construction activities.

# 3.2 CASH ALLOWANCE FOR MISCELLANEOUS REPAIRS, PERMITS AND INSPECTION FEES

A. A cash allowance of \$25,000 shall be included in the Contract Price for miscellaneous repairs, permits and County inspection fees, as directed by the City. All administrative work and coordination between the CONTRACTOR and City shall be considered incidental to the Contract.

# **SUMITTAL PROCEDURES**

#### **PART 1 - GENERAL**

# 1.1 SECTION INCLUDES

- A. Submittal Procedures
- B. Certifications
- C Shop Drawings
- D. Product Data
- E. Samples
- F. Manufacturers' Instructions
- G. Manufacturers' Field Reports
- H. Construction Schedule
- I. Submittal Schedule

#### 1.2 SUBMITTAL PROCEDURES

- A. Package each submittal appropriately for shipping and handling. This shall include an index either on the transmittal or within the submittal itself. Transmit each submittal from CONTRACTOR to ENGINEER using a transmittal form. Submittals received from sources other than CONTRACTOR will be returned without action. Use separate transmittals for items from different specification sections. Number each submittal consecutively. Resubmittals should have the same number as the original, plus a letter designation for each Resubmittal (i.e. 7-A, 7-B, etc.)
- B. Indicate on the transmittal relevant information and requests for data. On the form, or separate sheet, record deviations from Contract Document requirements, including minor variations and limitations. Include CONTRACTOR's certification that information complies with Contract Document requirements. On Resubmittal, all changes shall be clearly identified for ease of review. Resubmittals shall be reviewed for the clearly identified changes only. Any changes not clearly identified will not be reviewed and original submittal shall govern.
- C. Include the following information on the label for processing and recording action taken.
  - 1. Project name.
  - Date.
  - 3. Name and address of ENGINEER.
  - Name and address of CONTRACTOR.
  - 5. Name and address of subcontractor.
  - 6. Name and address of supplier.

- 7. Name of manufacturer.
- 8. Number and title of appropriate specification sections.
- 9. Drawing number and detail references, as appropriate.
- D. Schedule submittals to expedite the Project, and deliver to ENGINEER at business address. Coordinate submission of related items. Coordinate related activities that require sequential activity.
- E. Review and approve Shop Drawings, project data, and samples before submitting them.
- F. Verify field measurements, field construction criteria, catalog numbers, and similar data. Indicate on the submission exactly what was verified.
- G. Any markings done by CONTRACTOR shall be done in a color other than red. Red is reserved for ENGINEER's marking.
- H. The number of copies to be submitted will be determined at the pre-construction conference. Reproducible may be submitted and will be marked and returned to CONTRACTOR. Blue or black line prints shall be submitted in sufficient quantity for distribution to ENGINEER and OWNER recipients.
- I. Coordinate each submittal with the requirements of the Contract Documents.
- J. Provide space for CONTRACTOR and ENGINEER review stamps.
- K. Apply CONTRACTOR's stamp, signed or initialed certifying that review, approval, 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.
- L. Submit the number of copies that the CONTRACTOR requires, plus four copies that will be retained by the OWNER and ENGINEER.
- M. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- N. No claim will be allowed for damages or extension of time because of delays in the work resulting from rejection of material or from revision and resubmittal of Shop Drawings, project data, or samples.
- O. No extension of Contract time will be authorized because of failure to transmit submittals to ENGINEER sufficiently in advance of the work to permit processing.
- P. ENGINEER reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- Q. Do not install materials or equipment which requires submittals until the submittals are returned with ENGINEER's/OWNER's stamp and initials or signature indicating approval. The OWNER shall have final approval authority.
- R. CONTRACTOR's responsibility of errors, omissions, and deviations from requirements of Contract Documents in submittals is not relieved by the ENGINEER's review.
- S. Distribute copies of reviewed submittals to concerned parties. Instruct parties to promptly report any inability to comply with requirements.
- T. Do not use Shop Drawings without an appropriate final stamp indicating action taken in connection with construction.

- Submittals not requested in conformance with this Specification will not be recognized or processed.
- V. Revise and resubmit as required, identify all changes made since the previous submittal.
- W. In the event that more than two re-submittals of any submittal are necessary to achieve conformance to the contract requirements, CONTRACTOR shall be charged for excess engineering. The OWNER shall deduct these charges from the CONTRACTOR's final payment. Charges will be \$133.00/hr. minimum 4 hours, for each additional submittal of an item. A tabulated record of such charges will be provided for the CONTRACTOR's review prior to the processing of the final payment.
- X. Submit new project data and samples when the initial submittal is returned disapproved.

#### 1.3 CERTIFICATIONS

- A. When specified in individual specification sections, submit certification by the manufacturer, installation/application subcontractor, or the CONTRACTOR to ENGINEER, in quantities specified for Product Data.
- B. Indicate that the material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- Certifications may be recent or previous test results of the material or product, but must be acceptable to ENGINEER.

### 1.4 SHOP DRAWINGS

- A. Shop Drawings: Submit to ENGINEER for review for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Produce copies and distribute in accordance with Paragraph 1.2 Submittal Procedures.
- B. Submit newly prepared information, drawn to accurate scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of shop drawings.
- C. Standard manufactured items in the form of catalog work sheets showing illustrated cuts of the items to be furnished, scale details, sizes, dimensions, quantity, and all other pertinent information should be submitted and approved in a similar manner.
- D. Measurements given on Shop Drawings or standard catalog sheets, as established from Contract drawings and as approved by ENGINEER, shall be followed. When it is necessary to verify field measurements, they shall be checked and established by CONTRACTOR. The field measurements so established shall be followed by CONTRACTOR and by all affected trades.

# 1.5 PRODUCT DATA

- A. Product Data: Submit to ENGINEER for review for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Produce copies and distribute in accordance with Paragraph 1.2 Submittal Procedures.
- B. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

# 1.6 SAMPLES

- A. Submit full-size, fully fabricated samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers or materials, color range sets, and swatches showing color, texture, and pattern.
- B. Mount, display, or package samples in the manner specified to facilitate review of qualities indicated. Prepare samples to match ENGINEER's sample. Include the following:
  - 1. Generic description of the sample.
  - 2. Sample source.
  - 3. Product name or name of manufacturer.
  - 4. Compliance with recognized standards.
  - 5. Availability and delivery time.
- C. Submit samples for review of kind, color, pattern, and texture, for a final check of these characteristics with other elements, and for a comparison of these characteristics between the final submittal and the actual component as delivered and installed.
- D. Preliminary Submittals: Where samples are for selection of color, pattern, texture, or similar characteristics from a range of standard choices, submit a full set of choices for the material or product.
  - 1. Preliminary Submittals will be reviewed and returned with ENGINEER's mark indicating selection and other action.
- E. Unless noncompliance with Contract Document provisions is observed the submittal may serve as the final submittal.
- F. Sample sets may be used to obtain final acceptance of the construction associated with each set.

# 1.7 MANUFACTURER'S INSTRUCTIONS

A. When specified in individual specification sections, submit printed instructions for care and maintenance of installed products, to ENGINEER for delivery to OWNER in quantities specified for Product Data.

#### 1.8 CONSTRUCTION SCHEDULE

- A. CONTRACTOR shall submit a schedule of construction activities at the pre-construction meeting to the OWNER and ENGINEER for their review and approval
- B. Schedule Updating: Provide an updated construction schedule at each progress meeting. Copies of the updated schedule shall be prepared for all attendees.

#### 1.9 SUBMITTAL SCHEDULE

(NOT USED)

### **PART 2 - PRODUCTS**

(NOT USED)

#### **PART 3 - EXECUTION**

#### 3.1 ENGINEER'S ACTION

- A. Except for submittals for record, information or similar purposes, where action and return is required or requested, ENGINEER will review each submittal, mark to indicate action taken, and return promptly.
  - Compliance with specified characteristics is CONTRACTOR's responsibility.
- B. Action Stamp: ENGINEER will stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, as follows, to indicate the action taken:
  - Final Unrestricted Release: Where submittals are marked "No Exceptions Taken" that part of the work covered by the submittal may proceed provided it complies with the requirements of the Contract Documents; final acceptance will depend upon the compliance.
  - 2. Final-But-Restricted Release: When submittals are marked "Make Corrections Noted" that part of the work covered by the submittal may proceed, provided it complies with notation or correction on the submittal and requirements of the Contract Documents; final acceptance will depend on that compliance.
  - 3. Returned for Resubmittal: When submittal is marked "Rejected" or "Revise and Resubmit" do not proceed with the part of the work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal in accordance with the notations; resubmit without delay. Repeat if necessary to obtain a different action mark.
    - a. Do not permit submittals marked "Rejected" or "Revise and Resubmit" to be used at site, or elsewhere where work is in progress.
  - 4. Additional Information Needed: When submittal is marked "Submit Specified Item" CONTRACTOR shall submit requested information.
  - 5. Other Action: Where a submittal is primarily for information or record purposes, special processing or other activity, the submittal will be returned, marked "Acknowledge Receipt".
  - The approval of ENGINEER shall not relieve CONTRACTOR of responsibility for errors on Drawings or submittals as ENGINEER's checking is intended to cover compliance with Drawings and Specifications and not enter into every detail of the shop work.

# **QUALITY CONTROL**

#### **PART 1 - GENERAL**

# 1.1 SECTION INCLUDES

- A. Quality Control and Control of Installation
- B. References
- C. Testing and Inspection Services
- D. Manufacturers' Field Services

# 1.2 QUALITY CONTROL AND 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 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 required and specified quality.
- F. Verify that field measurements are as indicated on Shop Drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.
- H. All materials and equipment shall be new, unless otherwise noted.

# 1.3 REFERENCES

- A. Conform to reference standard by date of issue current on date of Contract Documents.
- B. Should specified reference standards conflict with Contract Documents, request clarification from the ENGINEER before proceeding.
- C. Neither the contractual relationships, duties, nor responsibilities of the parties in Contract nor those of the ENGINEER shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

# 1.4 TESTING AND INSPECTION SERVICES

- A. CONTRACTOR shall be responsible for providing, paying for, coordinating and scheduling the services of a testing firm (acceptable to OWNER, and approved by ENGINEER) to perform all testing and related tasks.
- B. The firm will perform tests, inspections and other services specified in individual specification sections and as required by the ENGINEER.

- C. Testing, inspections and source quality control may occur on or off the project site. Perform off-site testing as required by the ENGINEER or the OWNER.
- D. Reports will be submitted by the testing firm to the ENGINEER and CONTRACTOR, in duplicate, indicating observations and results of tests and indicating compliance or noncompliance with Contract Documents.
- E. CONTRACTOR shall coordinate with ENGINEER and/or OWNER; cooperate and coordinate with firm; furnish samples of materials, equipment, tools, storage, safe access, and assistance by incidental labor as requested.
  - 1. Notify ENGINEER and testing firm a minimum of 24 hours prior to expected time for operations requiring services.
  - 2. Make arrangements with testing firm and pay for additional samples and tests required for CONTRACTOR's use.
- F. Documentation of material certification by a testing firm shall be provided by the CONTRACTOR for the testing listed below. Any additional required by the Contract Documents beyond what is listed, shall be provided by the CONTRACTOR.
  - PVC Liner Membrane:
    - a. Pre-Award Material Chlorine Testing for the material to actually be employed on the project. (Refer to Section 13150, Part 1.03, F).
    - b. UV Testing Pre-Certification. (Refer to Section 13150, Part 1.03, G). CONTRACTOR shall provide certification that test results from a testing lab for the material to actually be employed on the project, before beginning the liner installation.
- G. Testing and employment of testing agency or laboratory shall not relieve CONTRACTOR of obligation to perform Work in accordance with requirements of Contract Documents.
- H. A testing firm, on instructions by the ENGINEER, shall perform re-testing or re-inspection required because of non-conformance to specified requirements. Payment for re-testing or re-inspection will be the responsibility of the CONTRACTOR.
- I. Clean water testing for the pool shall be completed as identified below.
  - 1. Clean water testing shall be conducted as follows:
    - a. Structures shall be completely filled with clean water.
    - b. Clean water shall stand for a period of 24 hours, minimum. Restore water level and let stand for an additional 24 hour period.
    - c. Water elevation during the next 48 hour period will be monitored to determine the volumetric rate of change in the structure. The 48 hour period may be shortened at the discretion of the ENGINEER and OWNER.
    - d. Visual inspections will be made for evidence of any leaks.
    - e. Provide dye and conduct dye testing if necessary to help identify leaks.
    - f. At the end of the monitoring period, if leakage is suspected, the structures shall be completely drained and visually inspected for evidence of leakage.

- g. Leaks shall be repaired to the satisfaction of the OWNER and ENGINEER.
- h. Major leaks may require rerun(s) of the water test at the discretion of the OWNER and ENGINEER until the leaks have been demonstrated to have been effectively repaired. Costs of water for rerun of tests will be the responsibility of the CONTRACTOR.
- All clean water testing shall be coordinated with the OWNER and ENGINEER.
  - (a) The following additional information pertains to the clean water testing.
- 2. The OWNER will drain and fill the pools during testing. CONTRACTOR shall coordinate with OWNER.
- J. Agency Responsibilities:
  - 1. Provide qualified personnel at site. Cooperate with ENGINEER and CONTRACTOR in performance of services.
  - 2. Perform specified sampling and testing of products in accordance with specified standards.
  - 3. Promptly notify ENGINEER and CONTRACTOR of observed irregularities or non-conformance of Work or products.
  - 4. Perform additional tests required by ENGINEER.
- K. Agency Reports: After each test, promptly submit two copies of report to ENGINEER and to CONTRACTOR. When requested by ENGINEER, provide interpretation of test results. Include the following:
  - Date issued.
  - 2. Project title and number.
  - 3. Name of Technician.
  - 4. Date and time of sampling or inspection.
  - 5. Identification of product and specifications section.
  - 6. Location in the Project.
  - 7. Type of inspection or test.
  - 8. Date of test.
  - 9. Results of tests.
  - Conformance with Contract Documents.
- L. Limits On Testing Authority:
  - 1. Agency or laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents.

- 2. Agency or laboratory may not approve or accept any portion of the Work.
- 3. Agency or laboratory may not assume any duties of CONTRACTOR.
- 4. Agency or laboratory has no authority to stop the Work.

# 1.5 MANUFACTURERS' FIELD SERVICES

- 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, and related efforts, 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.

# **PART 2 - PRODUCTS**

(Refer to Sections 13150, 13151, and 13152).

# **PART 3 - EXECUTION**

(Refer to Sections 13150, 13151, and 13152).

# **TEMPORARY FACILITIES AND CONTROLS**

#### **PART 1 - GENERAL**

# 1.1 SECTION INCLUDES:

- A. Temporary Utilities
  - 1. Temporary Electricity
  - 2. Temporary Lighting for Construction Purposes
  - 3. Internet Service
  - 4. Temporary Water Service
  - 5. Temporary Sanitary Facilities
- B. Construction Facilities
  - Field offices and sheds.
- C. Temporary Controls
  - 1. Dust Control
  - 2. Barriers
  - Protection of the Work
  - 4. Security Measures
  - 5. Water Control
- D. Removal of utilities, facilities, and controls.

#### 1.2 TEMPORARY ELECTRICITY

A. CONTRACTOR shall provide a portable electric generator, extension cords, and any other appurtenances required for his construction operations. Power from the existing facility will not be available.

# 1.3 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. While it is anticipated that all construction activities will be performed during daylight hours, the CONTRACTOR shall provide any temporary lighting that may be required for contingencies, or for interior applications where existing lighting are not adequate.

# 1.4 INTERNET SERVICE

(NOT USED)

# 1.5 TEMPORARY WATER SERVICE

A. Water is available at the construction site. CONTRACTOR shall make arrangements with the OWNER to have water available.

B. If the construction operations, apart from pool filling, require significant water use, as determined by the OWNER or ENGINEER, the CONTRACTOR shall install a backflow preventer with meter at the source prior to use. The CONTRACTOR shall pay a deposit of \$1,000 for the backflow preventer/meter unit, to be obtained from the City of Ann Arbor Customer Service Department (located on the first floor of City Hall, 301 E. Huron St., Ann Arbor, MI 48104). Water charges will be subtracted from the deposit amount, and the balance returned to the CONTRACTOR upon return of the backflow/preventer meter unit. Additional water usage beyond this amount must be paid at the time of return.

## 1.6 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Existing facility use is not permitted. Provide at the time of project mobilization. Provide chemical toilets and provisions for replacement of chemicals and disposal of wastes for the duration of the Contract.

### 1.7 FIELD OFFICES AND SHEDS

- A. Prepare a Drawing for submittal and approval showing construction facility layouts including temporary facilities, storage areas, parking, construction work and other related activities.
- B. The ENGINEER does not require a field office. The use of storage shed for construction operations is not anticipated. The CONTRACTOR shall seek approval from the OWNER and ENGINEER for any temporary, on-site storage facilities the CONTRACTOR may think necessary.

#### 1.8 DUST CONTROL

A. No dust migration off site shall be permitted.

#### 1.9 BARRIERS

- A. Provide barriers to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide protection for plant life designated to remain. Replace damaged plants.
- C. Protect non-owned vehicular traffic, stored materials, site and structures from damage.

#### 1.10 PROTECTION OF INSTALLED WORK

- A. Protect installed Work and provide special protection where specified in individual specification Sections.
- B. Provide temporary and removable protection for installed Products. Control activity in immediate work area to minimize damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. Prohibit traffic from landscaped areas.

#### 1.11 WATER CONTROL

(NOT USED)

## 1.12 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, and prior to Substantial Completion inspection.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

#### **PART 2 - PRODUCTS**

(NOT USED)

## **PART 3 - EXECUTION**

(NOT USED)

### **VEHICULAR ACCESS AND PARKING**

#### **PART 1 - GENERAL**

## 1.1 SECTION INCLUDES

- A. Vehicular Access
- B. Security
- C. Parking Areas

#### 1.2 DESCRIPTION

- A. Use of Existing Access Roads/Drives:
  - 1. CONTRACTOR will be allowed to use OWNER's existing roads/drives upon obtaining OWNER's written permission.
  - Prevent interference with traffic on existing roads, drives and parking areas. At all
    times, keep access roads and entrances serving the Site clear and available to
    OWNER, OWNER's employees, chemical deliveries, emergency vehicles, and
    other CONTRACTORS. Do not use these areas for parking or storage of
    materials.
  - 3. CONTRACTOR shall indemnify and hold harmless OWNER from expenses caused by CONTRACTOR's operations over existing roads and parking areas.
  - 4. Schedule deliveries to minimize use of driveways and entrances.

## 1.3 SITE ACCESS

A. CONTRACTOR shall access the site via the main entrance roads and existing facility maintenance gates.

#### 1.4 SECURITY

- A. The CONTRACTOR shall abide by and implement all site security measures in use by the City.
- B. CONTRACTOR's security procedures shall include but shall not be limited to:
  - 1. Maintain daily log of personnel on site.
- C. Use of OWNER's security measures does not relieve CONTRACTOR of its responsibility to secure its own working spaces and materials.

#### 1.5 CONTRACTOR PARKING

- A. CONTRACTOR personnel and subcontractor personnel shall park in areas designated by the OWNER.
- B. Disruption to the neighborhood (idling engines, radios, lights, etc.) before or after approved construction hours is prohibited.

#### 1.6 MAINTENANCE OF ACCESS

- A. CONTRACTOR shall maintain driveway and parking to continuously provide access for OWNER vehicles, deliveries for OWNER, emergency vehicles, and parking areas for OWNER's personnel and commuters.
- B. Public roads shall be passable at all times and no parking which disrupts traffic is permitted.
- C. Clean paved roads, driveways and parking areas over which CONTRACTOR's vehicles travel. Cleaning shall be done as required or as directed by ENGINEER. Areas to be cleaned include:
  - 1. Pavement, including driveways and parking areas, within the Pool site limits.

## 1.7 RESTORATION

A. Restore to pre-construction conditions existing roads, walks, and parking areas damaged by CONTRACTOR, subject to approval of OWNER of roads, walks, and parking areas.

## **PART 2 - PRODUCTS**

(NOT USED)

#### **PART 3 - EXECUTION**

(NOT USED)

### **CLEANING AND WASTE MANAGEMENT**

#### **PART 1 - GENERAL**

## 1.1 SECTION INCLUDES

- A. Progress Cleaning
- B. Final Cleaning

#### 1.2 GENERAL

- A. Execute cleaning, during progress of the Work, and at completion of the Work.
- B. Adequate periodic cleaning will be a condition for recommendation of progress payments.
- C. Waste Disposal
  - 1. Properly dispose all waste materials, surplus materials, debris, and rubbish off the Project Site.
  - 2. Provide suitable containers for storage of waste materials and debris.
  - 3. Do not burn or bury rubbish and waste materials on the Project Site.
  - 4. Do not dispose of volatile or hazardous wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains.
  - 5. Do not discharge wastes into streams or waterways.
  - 6. Comply with all federal, state, and local anti-pollution laws, ordinances, codes, and regulations when disposing waste materials, debris, and rubbish.
- D. Work shall include, but not be limited to:
  - 1. Protection of pool, tiles, Marcite and decking.
  - 2. Protection of all appurtenances including but not limited to: ladders, lights, jet nozzles, troughs and drains.
  - 3. Preventing construction waste and debris from washing down drains.

#### 1.3 PROGRESS CLEANING

- A. CONTRACTOR shall periodically clean the work site at least once weekly.
- B. Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the work.
- C. Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended.
- D. Remove debris from concealed spaces before enclosing the space.
- E. Thoroughly clean pool surface before applying adhesives for fleece or liner installation or other finishing materials.

- F. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration.
- G. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period.

#### 1.4 FINAL CLEANING

- A. Complete the following cleaning and waste-removal operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
  - 1. Clean and remove from the Project rubbish, waste material, debris, and other foreign substances.
  - 2. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
  - 3. Hose clean sidewalks and loading areas.
  - 4. Repair pavement, roads, sod, and all other areas affected by construction operations and restore them to original condition or to minimum condition specified.
  - 5. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of spatter, grease, stains, fingerprints, films, and similar foreign substances.
  - 6. Remove tags and labels that are not permanent.
  - 7. Touch up and otherwise repair and restore chipped, scratched, dented, or otherwise marred surfaces to specified finish and match adjacent surfaces.
- B. Maintain the cleaning until OWNER occupies the Project or portion thereof.
- C. Leave Project clean and in a neat and orderly condition satisfactory to ENGINEER.

#### **PART 2 - PRODUCTS**

## 2.1 MATERIALS

- A. Use only those cleaning materials which will not create hazards to health or property and which will not damage surfaces.
- B. Use only those cleaning materials and methods recommended by manufacturer of the surface material to be cleaned.
- C. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

#### **PART 3 - EXECUTION**

(NOT USED)

### **CLOSEOUT PROCEDURES**

#### **PART 1 - GENERAL**

## 1.1 SECTION INCLUDES

- A. Substantial Completion
- B. Final Inspection
- C. Request for Final Payment

#### 1.2 SUBSTANTIAL COMPLETION

- A. The project shall not be considered substantially complete until the County Health Department completes their inspection in the spring and authorizes acceptance of the pool. Retainage will be held until this time.
- B. Before requesting inspection for Certification of Substantial completion, complete the following. List exceptions in the request.
  - In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the portion of the work claimed as substantially complete. Include supporting documents for completion as indicated in these Contract Documents and a statement showing an accounting of changes to the contract price.
  - 2. If 100 percent completion cannot be shown, include a list of incomplete items, the value of incomplete construction, and reasons the work is not complete.
  - 3. Advise OWNER of pending insurance changeover requirements.
  - 4. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.
  - 5. Obtain and submit releases enabling OWNER unrestricted use of the work and access to services and utilities; include permits, certificates, County Health Department inspections, and similar releases.
  - 6. Complete final cleanup requirements, including touch-up painting. Touch-up and otherwise repair and restore marred exposed finishes.
- C. Inspection Procedures: On receipt of a request for inspection, ENGINEER will either proceed with inspection or advise CONTRACTOR of unfilled requirements.
  - ENGINEER will prepare the Certificate of Substantial Completion following inspection, or advise CONTRACTOR of construction that must be completed or corrected before the certificate will be issued.
  - 2. ENGINEER will repeat inspection when requested and assured that the work has been substantially completed.
  - 3. Results of completed inspection will be the basis of requirements for final acceptance.
  - 4. Date of Substantial Completion will begin the warranty period unless noted otherwise.

#### 1.3 FINAL ACCEPTANCE

- A. Before requesting final inspection for certification of final acceptance and final payment, complete the following. List exceptions in the request.
  - 1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
  - 2. Submit an updated final statement, accounting for final additional changes to the Contract Price.
  - 3. Submit a copy of ENGINEER's final inspection list of items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance. The list shall be endorsed and dated by the ENGINEER.
  - 4. Submit consent of surety to final payment.
  - 5. Submit a final liquidated damages settlement statement.
  - 6. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
  - Submit record drawings, damage or settlement survey, and similar final record information.
  - 8. Discontinue or change over and remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.
  - 9. Complete final cleaning in accordance with Section 01740, Cleaning and Waste Management.
- B. Reinspection Procedure: the ENGINEER will inspect the work upon receipt of notice that work, including inspection list items from earlier inspections, has been completed, except items whose completion has been delayed because of circumstances acceptable to the ENGINEER.
  - Upon completion of reinspection, the ENGINEER will prepare a certificate of final acceptance, or advise the CONTRACTOR of work that is incomplete, or of obligations that have not been fulfilled yet and which are required for final acceptance.
  - 2. If necessary, reinspection will be repeated.

#### 1.4 REQUEST FOR FINAL PAYMENT

- A. Submit request for final payment in accordance with the Agreement and General Conditions.
- B. Request for final payment shall include:
  - 1. AIA Documents.
  - 2. Documents required in the General Conditions, as may be modified by the Supplementary Conditions.

- 3. Releases or Waivers of Lien Rights:
  - a. When submitting releases or waivers of Lien rights, provide release or waiver by CONTRACTOR and each Subcontractor and Supplier that provided CONTRACTOR with labor, material, or equipment.
  - b. Provide list of Subcontractors and Suppliers for which release or waiver of Lien is required.
  - c. Each release or waiver of Lien shall be signed by an authorized representative of entity submitting release or waiver to CONTRACTOR, and shall include Subcontractor's or Supplier's corporate seal if applicable.
  - d. Release or waiver of Lien may be conditional upon receipt of final payment.
- 4. Consent of Surety.
- 5. Documentation that all punch list items are complete.
- 6. Warranties.
- 7. Operation and Maintenance Manuals.
- 8. Record Drawings being maintained by the CONTRACTOR.

#### **PART 2 - PRODUCTS**

(NOT USED)

## **PART 3 - EXECUTION**

(NOT USED)

### **CLOSEOUT SUBMITTALS**

#### **PART 1 - GENERAL**

## 1.1 SECTION INCLUDES

- A. Project Record Documents
- B. Warranties and Bonds

#### 1.2 PROJECT RECORD DOCUMENTS

- A. Maintain on site one clean, undamaged set of the following record documents; record actual revisions to the Work:
  - 1. Specifications.
  - 2. Addenda.
  - 3. Change Orders and other modifications to the Contract.
  - 4. Reviewed Shop Drawings, Product Data, and Samples.
  - 5. Manufacturer's instruction product care and maintenance.
- B. Ensure entries are complete and accurate, enabling future reference by OWNER.
- C. Store record documents separate from documents used for construction.
- D. 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 and modifications.
- E. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
  - 1. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
  - 2. Field changes of dimension and detail.
  - 3. Details not on original Contract drawings.
- F. Indicate the date of revisions to the plans in the appropriate box on the plans.
- G. Submit documents to ENGINEER with claim for final Application for Payment.

#### 1.3 WARRANTIES AND BONDS

A. Obtain warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers. All warranties shall begin at the Date of Substantial Completion, or at the date of acceptance by the OWNER, whichever is later.

- B. Execute and assemble all transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers into one binder.
- C. Verify that documents are in proper form, contain full information, and are notarized. Manufacturer's warranties shall be in the name of the OWNER.
- D. Provide Table of Contents and assemble in three-ring binders with durable plastic cover.
- E. Submit prior to Final Application for Payment.
- F. Time of submittals:
  - 1. Make warranty submittal within ten days after Date of Substantial Completion, prior to final Application for Payment.
  - 2. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing the date of acceptance as the beginning of the warranty or bond period.
- G. Rejection of Warranties: OWNER reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.

#### **PART 2 - PRODUCTS**

(NOT USED)

## **PART 3 - EXECUTION**

(NOT USED)

### **BID OPTION A: ADHERED PVC SWIMMING POOL LINING SYSTEM**

#### **PART 1 - GENERAL**

#### 1.1 DESCRIPTION

- A. The following specification is for a 15 year warranted, UV and Chemical Stabilized 60 mil thick (70 mil with embossing) polyester scrim reinforced, PVC pool renovation membrane with special components providing maximal UV and chlorine resistance, with acrylic stain guard topcoat and is based upon a performance specification. This specification is presented to establish and to define the installation technique, material quality and experience levels required to perform the required work.
- B. The individual components and installation criteria described below consists of a complete polyester webbing reinforced PVC membrane lining to be installed in accordance with these specifications. Material rolls of reinforced PVC membrane shall be custom fit and fuse welded together using Leister hot air hand welders and machine welders (or approved equal). Termination of the PVC system shall occur as indicated in Manufacturer's specifications. Upon completion, the pool lining system shall provide a waterproof lining of the existing pool over the poly felt complete with all necessary hardware, fittings, attachments, flanges, gaskets and all appropriate pool markings as required by applicable State pool codes. All existing pool markings inside the liner zone shall be replaced with full markings in accordance with state code.

#### 1.2 SUBMITTALS

- A. Shop Drawings: Show fabrication and connection details for all connections to existing pool structure.
- B. Provide standard catalogue sheets and installation instructions for each item specified.
- C. Provide 2' x 2' samples of PVC Membrane for testing purposes, 10.5 oz. felt, PVC coated Stainless Steel, countersunk fastener to be employed at flanges, and marking samples and a 1'x 1' sample of the adhesive attaching the PVC to the Felt under layer. Also supply 4 2" x 2" PVC to felt samples for water testing of adhesive bond. Adhesive must hold felt to PVC to felt after a 24 hour water immersion test.
- D. Provide written documentation of project foreman certification.
- E. Contract Closeout Submittals:
  - Provide Care and Maintenance Guide.
  - 2. Provide copy of the supplier's 15-year PVC material warranty. Warranty should completely cover the material against leakage, delaminating, bubbling, pitting, shearing, tearing, cracking or crazing or any material workmanship or defects. The warranty must include the above plus include a 15-year weld warranty on all PVC welding including targets, racing lanes and markings. In the event of failure of the lining system, the CONTRACTOR shall unconditionally repair or replace the damaged section.

### 1.3 QUALITY ASSURANCE

A. Pool material supplier and the actual pool membrane manufacturer shall have both been engaged in the manufacture of PVC membranes for use in Swimming Pools for a minimum of ten years. Manufacturer shall employ only 100% virgin vinyl throughout the manufacturing process. All PVC membrane components shall be from the same

- manufacturer to assure compatibility of components and weld ability over time. Products manufactured using recycled materials shall not be allowed.
- B. CONTRACTOR must demonstrate a minimum of 5 exterior pools in northern climates of similar size installed by its staff utilizing site built reinforced PVC membrane materials.
- C. The foreman provided by the installer shall be certified competent in installing PVC membrane materials by the membrane supplier and shall have a minimum of three (3) years' experience welding PVC membranes for pool applications.
- D. The foreman shall be on-site, full-time for all project activities.
- E. The bidder or shall provide enclosed with the bid a full listing of any and all lawsuits from any venue in the United States from any prior customers in which they have been sued by clients. This list is to be notarized and shall list all litigation initiated by clients against the CONTRACTOR regardless of whether such claims have been settled. Additionally, all bidders shall provide a full written release issued to the bidding agency allowing the bidding agency to discuss prior service and handling of warranty obligations with any prior clients regardless of any prior agreements to limit such discussions.
- F. Pre-Award Material Chlorine Testing. A 2' x 2' sample of the actual material to be employed on the subject project shall be provided for the purpose of testing prior to project award. Sample shall be subjected to a 24-hour chemical resistance test simulating extreme exposure to 100% powdered trichlor chlorine. A small 3" x 3" sample of all products submitted in accordance with these bid instructions shall be placed in a shallow plastic container with water and a ½ teaspoon of 100% trichlor in powder form shall be applied to the surface of each material and left undisturbed for a period of 24 hours. Fading, material condition and durability of the samples shall be evaluated by the OWNER and CONTRACTOR and shall be used in final evaluations. A sample of actual materials employed on the project may also be tested to confirm the material quality of products actually employed.
- G. UV Testing. An important consideration is extreme ultra-violet resistance of the primary PVC lining material. The CONTRACTOR shall provide test results of the actual material to be employed on the subject project having been subjected to a 4,000-hour Zenon Bulb UV durability accelerated weathering test. The test will have been conducted in a lab, demonstrated that the material has not been significantly negatively impacted (faded, checked, discolored, burned or deteriorated in any way) by this 4,000 hour Zenon Bulb accelerated weathering test.
- H. CONTRACTOR shall present in written form, a program of annual site visits to inspect and monitor on-going performance of the PVC liner and its installation, and costs for the inspections shall be included as part of their bid. The program shall include a list of items to be inspected, as well as a system of evaluating those items, and recommending responses for items needing attention and providing estimates for performing any non-warranty maintenance or repairs.
  - 1. The visit shall take place in the spring, and no later than May 7, before filling of the pool.

## 1.4 DELIVERY, STORAGE AND HANDLING

A. All materials required for the completion of this project shall be delivered to the project site in a manner designed to prevent damage. No hooks or forks shall be used for unloading. The CONTRACTOR shall perform unloading of all materials. Materials shall be stored in a flat, dry area in a manner that will not damage them. All materials provided are to be new and in unopened packaging.

#### 1.5 PROJECT SITE CONDITIONS

A. The CONTRACTOR to a level in accordance with the supplier's requirements shall prepare project site. All burrs and rough edges shall be ground smooth or covered, pits and voids shall be filled with a vinyl concrete patch compound. All working cracks, expansion joints or voids shall be isolated from the 10.5 oz. poly felt layer above by the installation of rigid stainless or plastic strips. All oil and tar must be removed from the pool or covered with appropriate isolation materials.

## 1.6 WARRANTY

A. The flexible PVC membrane system shall be warranted by the supplier for workmanship, materials, and shall be specifically warranted to not delaminate, pit, crack, require additional sealing, tear, or become structurally unsuitable for its intended purpose for a period of 15 (fifteen) years. Additionally, the CONTRACTOR shall warrant against delaminating at all heat welds at seams and racing lanes for a period of 15 years. In the event the material should become unusable during this period, the manufacturer and installer agree to repair or replace the defective sections.

#### **PART 2 - PRODUCTS**

#### 2.1 MANUFACTURERS

A. The material manufacturer shall be Natare, or RenoSys.

#### 2.2 MATERIALS

A. All individual components utilized to renovate the project pool shall be completely compatible with the pool environment and shall be supplied by one supplier as a system to assure compatibility and to assure a single source of responsibility. All PVC membrane components shall be from the same manufacturer to assure identical formulations, weld compatibility, and to ascertain identical product molecular weights. An approximately .3-mil coating of stain guard acrylic top coating shall be factory applied as a topcoat to reduce soiling in the field and to make the liner easier to clean. Material shall possess an embossed standard slip resistance throughout the pool to provide slip resistance to pool bathers or as required by the OWNER, and an extra aggressive slip resistant material on steps, gutters and at zero depth entry areas to 2' deep. Material Specifications shall be provided meeting or exceeding the following Physical Properties of the specified system.

#### **PVC Pool Membrane Typical Material Properties**

**Description:** Polyester reinforced PVC membrane Pool Renovation Membrane System. Available in two, easy to clean textures. 10-year, pro-rated warranty.

**Compound:** Maximal UV resistance, chlorine impervious PVC compounded for the pool environment. Product shall be compounded with permanent plasticizers, UV inhibitors, and antifungal agents and .3-mil acrylic soil resistant top coating.

Reinforcement: Non-wicking Polyester scrim fabric 1000 Denier yarn 9X9 per inch count.

Reference: 60mil Pool Membrane (Natatec PVC Membrane)

Property		Machine Direction Transverse Direction	Test Method	Result
Thickness				60 mil
Yield Tension	@ Yield (lbs in)	MD	ASTM D638	166
		TD		160
Yield Elongation	@ (%)	MD		0.6
		TD		0.6
Break Tension	@ Yield (lbs in)	MD		95
		TD		90
Break Elongation	@ (%)	MD		1.1
		TD		1.04
Secant Modulus	@ (psi)	MD	<b>ASTM D5323</b>	1352
		TD		1125
Tear Resistance	(lbs)	MD	<b>ASTM D1004</b>	25.0
		TD		24.7
Low Temp Brittleness			ASTM D1790	Pass -50°C
Specific Gravity	(g/cc)		ASTM D752	1.22
Water Resistance	% wt. change		ASTM D570	<0.79
Puncture Resistance	(lbs)		<b>ASTM D4833</b>	125
UV Resistance	(Tensile	MD	<b>ASTM D4355</b>	12%
Strength @ Yeild)	•			
UV Resistance Strength @ Yeild)	(Tensile	TD	ASTM D4355	16%

Testing Agency: ASTM - American Society for Testing and Materials
Test Method Definitions: MD - Machine Direction; TD - Transverse Direction

#### 2.3 SYSTEM COMPONENTS

- Pool lining membrane shall be a flexible 60 mil PVC material fully UV stabilized and Α. reinforced with a scrim consisting of a tightly woven polyester mesh, 1,000 denier thread for puncture resistance. Only those membranes specifically formulated for pool design shall be considered. The material colors shall be as follows: Color of walls and floor shall be light blue or white, as determined by the OWNER and or State requirements. Floor shall be light blue or white in color with stain guard acrylic topcoat protective coating and must be formulated using anti-fungal agents and manufactured specifically for use in the commercial swimming pool environment. An acrylic stain guard coating shall be a factory applied. Acrylic top coating is designed to make surface cleaning easier and to minimize soiling. The material shall be applied with the nonskid/textured side out as required by the OWNER in the floor area and on all gutter, step and zero-depth areas to provide slip resistance. All welds shall be accomplished with hot air welding. No solvent welding of PVC materials shall be allowed on this project. No double stick Mylar tapes are permitted under the liner on this project. Seams shall be tacked, a continuous air entrapment weld shall be applied continuous on all welds, and then a minimum 3/4" wide weld shall be installed. No burning of the material shall be permitted.
- B. Racing lanes, targets and marking strips shall be provided by the supplier and colored black. All markings shall be as per local pool code requirements. CONTRACTOR is responsible to ensure that racing lanes, targets, marking strips, text or other markings shall match those existing dimensionally and in location. If elected by the City, the logos shall be installed in the shallow sections of the pool, not in the competition lanes. Location of the logos shall be directed by the Engineer. The logos shall be 8-feet tall or as directed by the City.
- C. An anti-microbial product fully compatible with the PVC membrane shall be sprayed or rolled on under the felt material to discourage microbial growth under the system.

- D. Adhesives that are not weakened when exposed to water immersion and that are fully compatible and suitable for bonding to the PVC material and the felt layer shall be provided that are designed to chemically bond to the PVC material and to fully attach the Geotextile fabric to the pool walls and floors. NOTE: ENTIRE POOL LINER MEMBRANES AT VETERANS MEMORIAL PARK, INCLUDING THE PARK TOT POOL, SHALL BE A FULLY ADHERED SYSTEM OVER POLY FELT. All polyester fleece is to be fully bonded to the pool. Additionally, all PVC material employed on all pool surfaces shall be fully adhered as a condition of these specifications. Any adhesives that are water-soluble shall not be allowed under the scope of these bid documents to prevent the geotextile fabric from shifting under the membrane. PVC adhesive shall be further designed to be resistant to Plasticizer migration. Adhesive on project shall be water impermeable RenoBond or Nordot 34 only. It is the intention of the OWNER to have the CONTRACTOR provide a project where the PVC is fully adhered to the felt on all pool surfaces. No tacking of the PVC wall and floor sections to PVC metal strips is permitted.
- E. An under layer of 125 mil thick polyester fleece shall be installed fully adhered with the appropriate adhesive throughout the entire pool.
- F. PVC coated Stainless Steel metal or as required to make for a satisfactory installation termination. Galvanized PVC coated steel shall not be acceptable for use on this project.
- G. Trim poly felt and compress liner around perimeter as per Manufacturer requirements.
- H. Flanges at all penetrations shall be constructed of Type I Exterior grade Hard PVC Sheet and custom fabricated radii, and drilled as required for use at all membrane penetrations.
- I. Flanges will be custom fabricated to fit as close to existing pool fittings as is practical and possible based on substrate conditions around penetrations. Termination strips shall be installed to provide a neat, clean edge with a water-tight seal where the membrane meets the gutters. All bolts used to fasten any compression bar or termination strip shall be countersunk to allow for a flush installation. All metal fasteners employed shall be 316 Stainless steel.
- J. 4" to 6" wide Plastic or 304L Stainless Steel 25 gauge plate shall be installed over all active expansion joints and working cracks. Galv. Steel shall not be acceptable.
- K. Caulking shall be installed where required by installation details, and shall be Novagard Underwater Grade Caulk or prior approved equal. Caulking shall only be used at pool penetrations and terminations and shall not be employed for joining seams.
- L. Membrane supplier shall provide complete care instructions, PVC underwater patch kit, warranty certificate and spare material as might be required. OWNER's agent is also to be trained in the proper method of repairing the membrane as a part of this installation.

#### **PART 3 - EXECUTION**

#### 3.1 EXAMINATION

- A. Installation crew shall inspect the pool surface at the beginning of the project and shall advise OWNER as soon as practicable of any existing conditions which might affect the satisfactory installation of the pool membrane lining product.
- B. CONTRACTOR shall repair the pool surfaces as required for the satisfactory installation of the PVC liner, using the estimated quantities in the Bid Form.
- CONTRACTOR shall perform a leakage test on the pools prior to installing the new liner system. The purpose of this test is to eliminate the existing pool system as a possible source of leakage during liner testing after installation.

## 3.2 PREPARATION

A. The pool shall be prepared for the installation of the membrane in accordance with the supplier's technical data and these specifications.

#### 3.3 INSTALLATION AND APPLICATIONS

- A. Installation shall be performed by installers certified competent by the supplier whose experience is fully in compliance with the terms of these specifications. The PVC membrane installation shall be completely supported by the structural walls in all respects. The material shall be completely supported by structural walls at all corners and wall/floor junctures before the pool is filled. Due to the inordinate stress induced at seams, and fittings by water pressure stretch fitting- in no case shall gaps, voids or spaces be allowed behind the membrane before water is added. Veterans Memorial Park main pools both have stainless steel "Swim-out" type gutter systems (similar to Bradford Gutter Systems style BGS-2), with Marcite finished masonry walls and floors, with tile targets and lane markers.
- B. The installation procedures employed in the execution of this project are to be fully in accordance with the supplier recommendations and current Technical Data. If any terms or conditions of this contract contradict recommended procedures of the manufacturer or supplier, work will be performed in accordance with manufacturers and supplier requirements however written notice of any variances from these specifications must be provided to the project ENGINEER in advance of any actual work performed in the field.

#### C. Perform work as follows:

- 1. Prepare pool surface as per specifications and suppliers recommendations.
- 2. Span any cracks or voids with Stainless Steel sheet 25 ga. or 1/8th inch hard plastic plate and pin in place with appropriate fasteners.
- 3. Apply sanitizing agent.
- 4. Apply adhesive to pool surfaces and attach 10.5 oz poly felt them. Trim at compression fittings.
- 5. Apply poly felt material throughout pool with water insoluble adhesives.
- 6. Install Stainless Steel coated PVC Steel where required.
- 7. Apply PVC membrane to pool as detailed in the specifications and approved shop drawings and overlap weld (allowing a 2" overlap) with a minimum 3/4" wide weld. All hand welding is to be performed with a Leister hot air welder. No Solvent welding, glue welding or THF Swell agent welding is permitted on this project. No voids at wall/floor junctures shall be permitted in this installation. No double stick tapes are permitted.
- 8. Provide PVC markings, targets, racing lanes, as required and directed by OWNER and code. End Targets shall be fully bonded to the wall.
- 9. Attach Compression flanges and gaskets in accordance with supplier's recommendations. Bolt spacing shall not be greater than 3" O.C. All fastener heads shall be countersunk.
- 10. Prime and caulk the perimeter termination and wherever else required to make for a suitable and proper watertight fitting.
- 11. Inspect all seams in the pool with a roofing probe to ascertain that there are no false welds, pinholes or missed areas. Seal all seam edges with edge sealant.

- 12. Broom clean pool and surrounding deck area. Remove any marks or dirty spots. Remove all trash and debris to the OWNERS dumpster.
- 13. Provide a service and care session of approximately one hour with the OWNERS designated agent. Provide patch kit, care instructions in a written format, plus 100 square feet of color matched patch material.
- 14. Assist the OWNER with the initial filling of the pool and inspect the installation.
- 15. Perform the inspection program of annual visits for the specified number of years.

#### **BID OPTION B: SWIMMING POOL MARCITE**

#### **PART 1 - GENERAL**

#### 1.1 DESCRIPTION

- A. The following specification is for the demolition of existing marcite (pool plaster) surfaces and the installation of a new marcite surface in swimming pools. This specification is presented to establish and to define the installation technique, material quality and experience levels required to perform the required work.
- B. Upon completion, the marcite shall provide a waterproof interior finish of the existing pool complete with all necessary hardware, fittings, attachments, flanges, gaskets and all appropriate pool markings as required by applicable State pool codes. All existing pool markings inside the marcite zone shall be replaced with full markings in accordance with state code.

## 1.2 REFERENCES

- A. Swimming pool marcite and bonding materials shall be designed and produced to comply with published standards and meet requirements of applicable portions of the most current editions of the following:
  - 1. ASTM: American Society of Testing Materials
  - 2. National Plasterers Council Technical Manual, Fifth Edition

#### 1.3 SUBMITTALS

- A. Manufacturer's installation and maintenance instructions for use of all products.
- B. Manufacturer's technical data and MSDS.
- C. Contractor shall prepare and submit a 12-inch square sample panel showing the proposed texture and color of the marcite. Finish marcite work shall match the approved sample.

## 1.4 QUALITY ASSURANCE

- A. CONTRACTOR must demonstrate a minimum of three (3) exterior pools in northern climates of similar size installed by its staff utilizing marcite installation materials.
- B. The foreman provided by the installer shall be certified competent in installing marcite materials by the supplier and shall have a minimum of three (3) years' experience for marcite pool applications. The foreman shall be on-site, full-time for all project activities.
- C. CONTRACTOR shall present in written form, a program of annual site visit to inspect and monitor on-going performance of the marcite and its installation, and costs for the inspections shall be included as part of their bid. The program shall include a list of items to be inspected, as well as a system of evaluating those items, and recommending responses for items needing attention and providing estimates for performing any non-warranty maintenance or repairs.
  - The visit shall take place in the spring, and no later than May 7, before filling of the pools.

## 1.5 DELIVERY, STORAGE AND HANDLING

A. All materials required for the completion of this project shall be delivered to the project site in a manner designed to prevent damage.

#### 1.6 PROJECT CONDITIONS

- A. Apply marcite only when ambient temperature is above 40° F and below 90° F.
- B. Do not install marcite during rain, and if rain commences after the installation has begun, immediately protect the marcite from rain by all means necessary until the marcite has set.
- C. Do not install marcite during wind over 10 mph, and if wind commences after the installation has begun, immediately protect the marcite from wind by all means necessary until the marcite has set.
- D. Protect applied marcite from rapid drying until curing is completed or pool is filled with water.

#### 1.6 WARRANTY

- A. The marcite installation shall be warranted for a period of three (3) years. The warranty shall include but not be limited to:
  - Debonding and Delamination: Occurs when there is a bond failure between the marcite coat and the underlying surface or between the bond coat and the underlying surface and the failure rises up and forms a delamination blister.
  - 2. Surface blisters and spalls: Occurs on the surface of the marcite coating where the coating is separated from the underlying marcite substrate matrix.

### **PART 2 - PRODUCTS**

#### 2.1 GENERAL DESCRIPTION

A. All individual components utilized to renovate the project pool shall be completely compatible with the pool environment and shall be supplied by one supplier as a system to assure compatibility and to assure a single source of responsibility. Material Specifications shall be provided meeting or exceeding the following Physical Properties of the specified system.

## 2.2 MATERIALS

- A. Marcite shall be a standard white marble pool plaster finish. Marcite mix shall consist of no less than one part cement material for every two parts of aggregate material by weight (1:2 cement/aggregate ratio) to no more than one part cement material for every 1.5 parts of aggregate material by weight (1:1.5 cement/aggregate ratio).
  - 1. Portland Cement: ASTM C150, Type 1 White Portland Cement
  - 2. Hydrated Lime: ASTM C206, Type S
  - 3. Aggregate: Swimming pool aggregate shall conform to or exceed ASTM C-897 as manufactured by Georgia Marble Pool Aggregate, TXI Riverside Premium Pool Aggregate, or approved equal.
  - 4. Water: Clean, potable water from approved source.

B. Bonding agent shall be Multicoat Scratch Kote 2000, or approved equal.

#### 2.2 SYSTEM COMPONENTS

A. CONTRACTOR is responsible to ensure that racing lanes, targets, marking strips, text or other markings shall match those existing dimensionally and in location.

#### **PART 3 - EXECUTION**

#### 3.1 EXAMINATION

A. Installation crew shall inspect the pool surface at the beginning of the project and shall advise OWNER as soon as practicable of any existing conditions which might affect the satisfactory installation of the marcite product.

## 3.2 PREPARATION

- A. CONTRACTOR shall assure that the concrete substrate that will be used for the application of the new marcite surface is clean and free of debris, loose material, staining or any other materials that might interfere with the new marcite surface coating's ability to mechanically bond to the substrate. The substrate shall be rough, course and porous enough to ensure that the new marcite surface coating can achieve a good mechanical bond to the substrate.
- B. The following procedures are considered acceptable practice in preparing the substrate:
  - Sandblast with water attachment for dust control or hydo-blast to remove all old plaster, loose material, rust, and stains down to the underlying cementitious surface. The CONTRACTOR shall ensure the final surface is sound and rough and then apply the bond coat in accordance with the manufacturer's recommended installation instructions.
  - In lieu of sandblasting/hydo-blast, CONTRACTOR may strip off the old plaster surface with chipping hammers to the underlying cementitious surface. The CONTRACTOR shall ensure the final surface is sound and rough and then apply the bond coat in accordance with the manufacturer's recommended installation instructions.
- CONTRACTOR shall remove and dispose of all demolition material from the job site.
- D. All pool tile, including but not limited to, waterline/gutter tile, racing lane tile, wall target tile and toe ledge tile is to be removed and replaced with tile of the same size, grade and color during the marcite installation, the new marcite surface shall be flush with the tile. CONTRACTOR shall replace and repair any tile damaged during the marcite installation.
- E. Chip out a minimum of 6 inches around any pool fixtures, lights and appurtenances, as needed to provide for a flush surface around such fixtures.
- F. CONTRACTOR shall cover or temporarily plug all fittings, return lines and main drains to assure that they do not become plugged with demolition or cement material.
- G. All other hardware, machined surfaces, plates, or similar accessories shall be removed or protected during the marcite installation. Reinstall all removed items utilizing workers skilled in the trades involved.

#### 3.3 INSTALLATION

A. Installation shall be performed by installers certified competent by the supplier whose experience is fully in compliance with the terms of these specifications. The marcite installation shall be completely supported by the structural walls in all respects. The Veterans Memorial Park main pool has stainless steel "Swim-out" type gutter systems (similar to Bradford Gutter Systems style BGS-2), with Marcite finished masonry walls and floors, with tile targets and lane markers.

- B. The installation procedures employed in the execution of this project are to be fully in accordance with the supplier recommendations and current Technical Data. If any terms or conditions of this contract contradict recommended procedures of the manufacturer or supplier, work will be performed in accordance with manufacturers and supplier requirements; however, written notice of any variances from these specifications must be provided to the project ENGINEER in advance of any actual work performed in the field.
- C. Prior to starting the installation of the marcite, the CONTRACTOR shall remove/blow out all dust from the final prepared surface.
- D. The finish coat of marcite shall conform to the following guidelines:
  - 1. Watertightness: The marcite material shall be hard troweled in a manner as to provide for a tight matrix between the cement and aggregate material particles to maximize its ability to hold water. In addition, a tight seal shall be created around all plumbing fixtures, light fixtures, tile and other transition materials.
  - 2. Smoothness: The marcite surface shall be troweled to be sufficiently smooth to the touch. Smooth is defined as no rougher than very fine sand paper (220 grit or finer).
  - 3. Levelness: The marcite surface shall be consistently level across the surface. Minor waviness can be expected with any hand-troweled surface but waviness shall not be excessive. Transitions between walls, coves, floor, tile, or around plumbing and light fixtures shall be smooth, uninterrupted and not obvious.
  - 4. Thickness: The marcite coat shall have a minimum thickness of 3/8" and a maximum thickness of 3/4". Exceptions are allowed for small areas of highs and lows spanning no more than several inches per occurrence.
  - 5. Maintainability: The marcite surface shall be consistently even, smooth and durable to discourage the adherence of algae and dirt and to allow for the long-term maintenance of the pool marcite surface.
  - 6. CONTRACTOR shall complete the final marcite application within a 24 hour time frame.
  - 7. CONTRACTOR shall leave the pool and construction site broom-clean upon completion. All tile areas shall be wiped clean as needed.

## 3.4 CURING

- A. The CONTRACTOR shall notify the OWNER approximately one (1) day prior to completion of installation to allow time for the OWNER to prepare to refill the pool. CONTRACTOR shall be responsible for assisting the OWNER with the refilling by gradually filling the pool with water, preventing all damage to the new finished marcite surface and completing the refill within 36 hours. CONTRACTOR to follow the curing procedure below:
  - 1. After the marcite has sufficiently dried and before drying has proceeded to a damaging point, CONTRACTOR shall begin filling the pool with water.
  - 2. CONTRACTOR shall keep all dried marcite surfaces damp prior to and during the pool filling.
  - 3. CONTRACTOR shall coordinate with the OWNER to ensure that the pool is continuously monitored while filling to prevent overflow.

## 3.5 CLEAN-UP

A. Upon completion of the marcite installation, remove all materials, equipment and debris related to the work. The job site shall be left in a clean and presentable condition.

#### **BID OPTION C: SATIN MATRIX POOL LINER**

#### **PART 1 - GENERAL**

#### 1.1 DESCRIPTION

- A. The following specification is for the demolition of existing marcite (pool plaster) surfaces and the installation of Satin Matrix Pool Finish surface in swimming pools. This specification is presented to establish and to define the installation technique, material quality and experience levels required to perform the required work.
- B. Upon completion, the Satin Matrix Pool Finish shall provide a watertight interior finish of the existing pool. The CONTRACTOR will install all necessary hardware, fittings, attachments, flanges, gaskets, including all penetrations using leak stops or hydraulic cement and all appropriate pool markings as required by applicable State pool codes. All existing pool markings inside the pool finish zone shall be replaced with full markings in accordance with state code.

#### 1.2 REFERENCES

- A. The Satin Matrix Pool Finish and bonding materials shall be designed and produced to comply with published standards and meet requirements of applicable portions of the most current editions of the following:
  - 1. ASTM: American Society of Testing Materials
  - 2. National Plasterers Council Technical Manual, Fifth Edition

#### 1.3 SUBMITTALS

- A. Manufacturer's installation and maintenance instructions for use of all products.
- B. Manufacturer's technical data and MSDS.
- C. CONTRACTOR shall prepare and submit a 12-inch square sample panel showing the proposed texture and color of the Satin Matrix Pool Finish. Interior finish work shall match the approved sample.

#### 1.4 QUALITY ASSURANCE

- A. CONTRACTOR must demonstrate a minimum of three (3) exterior pools in northern climates of similar size installed by its staff utilizing the Satin Matrix Pool Finish installation materials.
- B. The foreman provided by the installer shall be certified competent in installing the Satin Matrix Pool Finish materials by the supplier and shall have a minimum of three (3) years' experience for Satin Matrix Pool finish. The foreman shall be on-site, full-time for all project activities.
- C. CONTRACTOR shall present in written form, a program of annual site visit to inspect and monitor on-going performance of the Satin Matrix Pool Finish and its installation, and costs for the inspections shall be included as part of their bid. The program shall include a list of items to be inspected, as well as a system of evaluating those items, and recommending responses for items needing attention and providing estimates for performing any nonwarranty maintenance or repairs.

- 1. Program shall be for one (1) year after installation.
- 2. The visit shall take place in the spring, and no later than May 7, before filling of the pools.

## 1.5 DELIVERY, STORAGE AND HANDLING

A. All materials required for the completion of this project shall be delivered to the project site in a manner designed to prevent damage. Satin Matrix Pool Finish material must remain dry until ready to be used and stored off the ground, under cover and away from damp surfaces.

#### 1.6 PROJECT CONDITIONS

- A. Apply the Satin Matrix Pool Finish only when ambient temperature is above 40° F and rising.
- B. Do not install the Satin Matrix Pool Finish during rain, and if rain commences after the installation has begun, immediately protect the Satin Matrix Pool Finish from rain by all means necessary until the product has set.
- C. Do not install Satin Matrix Pool Finish during wind over 10 mph, and if wind commences after the installation has begun, immediately protect the finish from wind by all means necessary until the Satin Matrix Pool Finish has set.
- D. Protect applied Satin Matrix Pool Finish from rapid drying until curing is completed or pool is filled with water.

#### **PART 2 - PRODUCTS**

#### 2.1 MANUFACTURERS

A. The manufacturer shall be Wet-Edge Technologies, or approved equivalent.

#### 2.2 GENERAL DESCRIPTION

A. All individual components utilized to renovate the project pool shall be completely compatible with the pool environment. Material Specifications shall be provided meeting or exceeding the following Physical Properties of the specified system.

#### 2.3 MATERIALS

- A. Satin Matrix Pool Finish shall be modified white marble/quartz pool finish. The Satin Matrix Pool Finish mix ratio shall consist of 60% aggregate to 40% cement by weight.
  - 1. Portland Cement: ASTM C150, Type 1 White Portland Cement
  - 2. Satin Matrix Pool Finish shall conform to or exceed ASTM C-897.
  - 3. Water: Clean, potable water from approved source.
- B. Bonding agent shall be manufactured cementitious pool industry bonding agent.

#### 2.4 SYSTEM COMPONENTS

A. CONTRACTOR is responsible to ensure that new tile racing lanes, targets, marking strips, text or other markings shall match those existing dimensionally and in location.

#### **PART 3 - EXECUTION**

#### 3.1 EXAMINATION

A. Installation crew shall inspect the pool surface at the beginning of the project and shall advise OWNER as soon as practicable of any existing conditions which might affect the satisfactory installation of the Satin Matrix product.

## 3.2 PREPARATION

- A. CONTRACTOR shall assure that the concrete substrate that will be used for the application of the Satin Matrix Pool Finish surface is clean and free of debris, loose material, staining or any other materials that might interfere with the Satin Matrix Pool Finish ability to mechanically bond to the substrate. The substrate shall be rough, course and porous enough to ensure that the new Satin Matrix Pool Finish surface coating can achieve a good mechanical bond to the substrate.
- B. The following procedures are considered acceptable practice in preparing the substrate:
  - Sandblast with water attachment for dust control or hydo-blast to remove all old plaster, loose material, rust, and stains down to the underlying cementitious surface. The CONTRACTOR shall ensure the final surface is sound and rough and then apply the bond coat in accordance with the manufacturer's recommended installation instructions.
  - In lieu of sandblasting/hydo-blast, CONTRACTOR may strip off the old plaster surface with chipping hammers to the underlying cementitious surface. The CONTRACTOR shall ensure the final surface is sound and rough and then apply the bond coat in accordance with the manufacturer's recommended installation instructions.
- CONTRACTOR shall remove and dispose of all demolition material from the job site.
- D. All pool tile, including but not limited to, waterline/gutter tile, racing lane tile, wall target tile and toe ledge tile is to be removed and replaced with tile of the same size, grade and color during the satin matrix pool finish installation, the new satin matrix pool finish surface shall be flush with the tile. CONTRACTOR shall replace and repair any tile damaged during the satin pool finish installation.
- E. Chip out a minimum of 6 inches around any pool fixtures, lights, and appurtenances, as needed to provide for a flush surface around such fixtures.
- F. CONTRACTOR shall cover or temporarily plug all fittings, return lines and main drains to assure that they do not become plugged with demolition or cement material.
- G. All other hardware, machined surfaces, plates, or similar accessories shall be removed or protected during the Satin Matrix Pool Finish installation. Reinstall all removed items utilizing workers skilled in the trades involved.

## 3.3 INSTALLATION

A. Installation shall be performed by installers certified competent by the supplier whose experience is fully in compliance with the terms of these specifications. The Satin Matrix Pool Finish installation shall be completely supported by the structural walls in all respects. Veterans Memorial Park Pool main pool has stainless steel "Swim-out" type gutter systems (similar to Bradford Gutter Systems style BGS-2), with Satin Matrix Pool Finish with tile targets and lane markers.

- B. The installation procedures employed in the execution of this project are to be fully in accordance with the supplier recommendations and current Technical Data. If any terms or conditions of this contract contradict recommended procedures of the manufacturer or supplier, work will be performed in accordance with manufacturers and supplier requirements however written notice of any variances from these specifications must be provided to the project ENGINEER in advance of any actual work performed in the field.
- C. Prior to starting the installation of the Satin Matrix Pool Finish, the CONTRACTOR shall remove/blow out all dust from the final prepared surface.
- D. The finish coat of the Satin Matrix Pool Finish shall conform to the following guidelines:
  - Watertightness: The Satin Matrix Pool Finish material shall be hard troweled in a manner as to provide for a tight matrix between the cement and aggregate material particles to maximize its ability to hold water. In addition, a tight seal shall be created around all plumbing fixtures, light fixtures, tile and other transition materials.
  - 2. Smoothness: The Satin Matrix Pool Finish surface shall be troweled to be sufficiently smooth to the touch.
  - 3. Levelness: The Satin Matrix Pool Finish surface shall be consistently level across the surface. Minor waviness can be expected with any hand-troweled surface but waviness shall not be excessive. Transitions between walls, coves, floor, tile, or around plumbing and light fixtures shall be smooth, uninterrupted and not obvious.
  - 4. Thickness: The Satin Matrix Pool Finish coat shall have a minimum thickness of 3/8" and a maximum thickness of 3/4". Exceptions are allowed for small areas of highs and lows spanning no more than several inches per occurrence.
  - 5. Maintainability: The Satin Matrix Pool Finish surface shall be consistently even, smooth and durable to discourage the adherence of algae and dirt and to allow for the long-term maintenance of the pool surface.
  - 6. CONTRACTOR shall complete the final Satin Matrix Pool Finish application within a 24 hour time frame.
  - 7. CONTRACTOR shall leave the pool and construction site broom-clean upon completion. All tile areas shall be wiped clean as needed.

#### 3.4 CURING

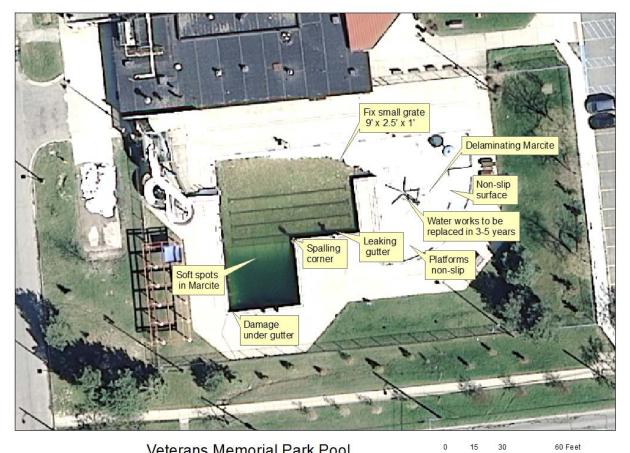
- A. The CONTRACTOR shall notify the OWNER approximately one (1) day prior to completion of installation to allow time for the OWNER to prepare to refill the pool. CONTRACTOR shall be responsible for assisting the OWNER with the filling. Gradually fill the pool with water, preventing damage to the new finished Pool Finish surface. Pool to be completely filled within 48 hours. CONTRACTOR to follow the curing procedure below:
  - 1. After the Satin Pool Finish has sufficiently set up the CONTRACTOR shall begin filling the pool with water.
  - CONTRACTOR shall keep all dried Satin Pool Finish surfaces damp prior to and during the pool filling.
  - 3. CONTRACTOR shall coordinate with the OWNER to ensure that the pool is continuously monitored while filling to prevent overflow.

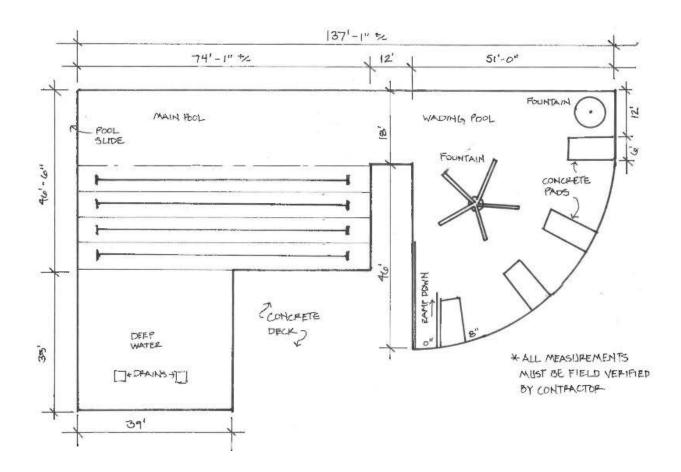
## 3.5 CLEAN-UP

A. Upon completion of the Satin Matrix Pool Finish installation, remove all materials, equipment and debris related to the work. The job site shall be left in a clean and presentable condition.

# **APPENDIX**

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## Veterans Memorial Park Pool Layout

## Notes:

- 1. Cover concrete pads with the same aggressive slip resistant material as the rest of the wading pool.
- 2. Install base cones for the two (2) fountain structures.
- 3. Install base cones on the wading pool handrail systems.
- 4. Remove and replace deteriorated joint sealer around the entire perimeter of the pools.
- 5. Repair gutter system in between wading and main pool.

## Pool Photos



Ramp entering wading pool



Delaminating Marcite in wading pool



Concrete pads in wading pool



Delaminating Marcite in NW corner of wading pool



Delaminating Marcite in wading pool



Leaking stainless steel gutter south wall east of deep pool



Spalling concrete on NE corner of deep pool



Delaminating Marcite on sloped floor of the deep pool



Spalling concrete beneath stainless steel gutter SW corner of deep pool



Install base cones on handrail system



Spalling concrete



Water feature in wading pool



Condition of Marcite in deep pool



Water slide



Area between wading pool and lap pool



Water feature in wading pool



Base condition of water feature in wading pool



Grate in wading pool

## CITY OF ANN ARBOR 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.

Company Name	
Signature of Authorized Representative	Date
Print Name and Title	
Address, City, State, Zip	
Phone/Email address	

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

9/25/15 Rev 0 PW-

### **CITY OF ANN ARBOR** 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.

Com Livin

•	employing tewer than 5 persons and non-protits employing ordinance. If this exemption applies to your company/no	g fewer than 10 persons are exempt from compliance with the n-profit agency please check here [] No. of employees						
The Contra	actor or Grantee agrees:							
(a)	prevailing wage law, for work covered or funded I Living Wage. The current Living Wage is def employee health care (as defined in the Ordi \$14.65/hour for those employers that do not prov that the Living Wage is adjusted and established	el is not required to comply with federal, state or local by a contract with or grant from the City, no less than the ned as \$13.13/hour for those employers that provide nance at Section 1:815 Sec. 1 (a)), or no less than ide health care. The Contractor or Grantor understands annually on April 30 in accordance with the Ordinance by the adjusted amount thereafter to be in compliance.						
	Check the applicable box bel	ow which applies to your workforce						
	[] Employees who are assigned to any coapplicable living wage without health ber	overed City contract/grant will be paid at or above the refits						
	[] Employees who are assigned to any contains applicable living wage with health benefit	overed City contract/grant will be paid at or above the						
(b)		the applicability of the Living Wage Ordinance in every 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 represen investigating complaints or non-compliance.	tatives for the purposes of monitoring compliance, and						
(e)	employee covered by the Living Wage Ordinance	sation, wages, fringe benefits, or leave available to any e or any person contracted for employment and covered by the Living Wage Ordinance.						
has offered Wage Ordin Ordinance,	I to provide the services or agrees to accept financi nance. The undersigned certifies that he/she has obligates the Employer/Grantee to those terms and Ordinance it may be subject to civil penalties and	to act on behalf of his/her employer in these matters and all assistance in accordance with the terms of the Living read and is familiar with the terms of the Living Waged acknowledges that if his/her employer is found to be intermination of the awarded contract or grant of financial						
Company Na	ame	Street Address						
Signature of	Authorized Representative Date	City, State, Zip						

Phone/Email address

Print Name and Title

## CITY OF ANN ARBOR LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2017 - ENDING APRIL 29, 2018

If the employer provides health care benefits\*

\$13.13 per hour \$14.65 per hour

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.

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

LW-1 Revised 2/7/2017 Rev. 0

<sup>\*</sup> 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.



## 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.
- 3. 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 Disclosure*						
Name of City of Ann Arbor employees, elected	( ) Relationship to employee					
officials or immediate family members with whom there may be a potential conflict of interest.	( ) Interest in vendor's company     ( ) Other (please describe in box below)					
*Disclosing a potential conflict of interest does not disqual	lify vendors. In the event vendors do not disclose potential					

\*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:					
Vendor Name			Vendor Phone Number		
Signature of Vendor Authorized Representative	Da	ate	Printed Name of Vendor Authorized Representative		

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

## CITY OF ANN ARBOR DECLARATION OF COMPLIANCE

#### Non-Discrimination Ordinance

The "nondiscrimination 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.

Company Name	
Signature of Authorized Representative	Date
Print Name and Title	
Address, City, State, Zip	
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

2016 Rev 0 NDO-2

#### 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/departments/city-clerk

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.

Nondiscrimination by City Contractors: 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 has a grievance alleging a violation of this chapter, he/she has 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 alleged discriminatory action to file a complaint with the city's Human Rights Commission. If an individual fails to file a complaint alleging a violation of this chapter within the specified time frame, the complaint will not be considered by the Human Rights Commission. The complaint should be made in writing to the Human Rights Commission. The complaint may be filed in person with the City Clerk, by e-mail (hrc@a2gov.org), by phone (734-794-6141) or by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107). The complaint must contain information about the alleged discrimination, such as name, address, phone number of the complainant and location, date and description of the alleged violation of this chapter.

<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

(1) NAME OF COM	NTRACTOR / SI	JBCONTRACTOR (CIRCLE ONE	Ξ)		(2) A	DDRES	SS														
(3) PAYROLL NO		(4) FOR WEEK ENDING			(5) I	PROJE	CT AND	D LOCA	TION									(6)	CONTRAC	TID	
(a	)	(b)	(c)	I	(d) D	AY AND	D DATE	1		(e)	(f)	(g)	(h)	(i)			(j) DED	DUCTIONS			(k)
EMPLOYEE IN	IFORMATION	WORK CLASSIFICATION	Hour Type	HOU	RSWO	RKED	ONPR	OJECT		TOTAL HOURS ON PROJECT	PROJECT RATE OF PAY		WEEKLY	TOTAL WEEKLY HOURS WORKED ALL JOBS	FICA	FEDERAL	STATE		OTHER	TOTAL DEDUCT	TOTAL WEEKLY WAGES PAID FOR ALL JOBS
NAME:										0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID#:	GROUP/CLASS #:	s							0											
TOTAL .			L							0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID #:	GROUP/CLASS #:	s							0											
NAME:			L							0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID #:	GROUP/CLASS #:	s							0											
NAME.			L							0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID #:	GROUP/CLASS #:	s							0											
NAME:			L							0			\$0.00	1						\$0.00	\$0.00
ETH/GEN:	ID #:	GROUP/CLASS#:	s							0										·	
NAME:										0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID#:	GROUP/CLASS #:	s							0										\$0.00	ψ0.00
NAME:			L							0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID#:	GROUP/CLASS #:	s							0										******	*****
NAME:			L							0			\$0.00							\$0.00	\$0.00
ETH/GEN:	ID#:	GROUP/CLASS#:	s							0										\$5.55	\$3.00

Date	
(Name of Signatory Party)	(Title)
do hereby state:	
(1) That I pay or supervise the payment of the per	cono ampleyad by
(1) That I pay or supervise the payment of the per	sons employed by
(Contractor or Subcor	ntractor) on the
·	; that during the payroll period commencing on the
(Building or Work)	
day of,, and end	ling the, day of,,
all persons employed on said project have been paid been or will be made either directly or indirectly to or or	
	from the full
(Contractor or Subco	
weekly wages earned by any person and that no ded from the full wages earned by any person, other than p 3 (29 C.F.R. Subtitle A), issued by the Secretary of Lat 63 Start. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3	ermissible deductions as defined in Regulations, Part for under the Copeland Act, as amended (48 Stat. 948,
correct and complete; that the wage rates for laborers applicable wage rates contained in any wage dete classifications set forth therein for each laborer or med (3) That any apprentices employed in the at	rmination incorporated into the contract; that the nanic conform with the work he performed.
apprenticeship program registered with a State app Apprenticeship and Training, United States Department State, are registered with the Bureau of Apprenticeship (4) That:	t of Labor, or if no such recognized agency exists in a
(a) WILKE I KINGE BENEFITS ARE FAID	TO ALL HOVED FLANS, LONDS, OK FROGRANIS
the above referenced payroll, p	age rates paid to each laborer or mechanic listed in ayments of fringe benefits as listed in the contract to appropriate programs for the benefit of such ection 4(c) below.

(b) WHERE	FRINGE	RENIFFITS	ARE	PAID	INL	ASH.

□-	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 lister
	in the contract, except as noted in section 4(c) below.

#### (c) EXCEPTIONS

	•
EXCEPTION (CRAFT)	EXPLANATION
REMARKS:	•
NAME AND TITLE	SIGNATURE
THE WILLELL FALSIFICATION OF ANY OF THE AROL	/E STATEMENTS MAY SUBJECT THE CONTRACTOR OR

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.