ROUTING: Routine	Contract I	Routing Form	printed on: 08/06/2014		
Contract between: Bachmann Construction Co Inc and Dept. or Division: Engineering Division Name/Phone Number:					
Project: Fire Station #5	5 Roof Door	r and Hose Tower Re	pairs		
Contract No.: 7334 Enactment No.: RES-14-00 Dollar Amount: 24,230.00		File No.: Enactment	34559 Date: 7 /15/2014		
(Please DATE before rout)	ing)				
Signatures Required		Date Received	Date Signed		
City Clerk		8-6-2014	8-612014		
Director of Civil Rights		8-7-2014	8 15 14 100		
Risk Manager <i>hs ak</i>		8-15-14	8/19/14 RN		
Finance Director		8.19.14	8.20.14		
		8-20-14	8-27-9014		
Mayor		8-27-14	1 8/27/14		
Please return signed Cont Room 103, City-County Bui Original + 2 Copi	tracts to t llding for les	the City Clerk's Of filing. POt	\$ 19 11 Kic		
08/06/2014 09:51:18 enjag			WINNY KLSV		

I.	
	Dis Rights: OK-AMA Problem - Hold
4	Prev Wage AA Agency / No
	Contract Value: See aport
4	AA Plan: Approved
	Amendment <sup>7</sup> Addendum #
1	Type: POS / Dwp / Sbdv / Gov't /
1	Grant / (PVV) Geal / Loan / Agrmt

# City of Madison - File #: 34559

1

**Engineering Division** 

6/23/2014

# Page 1 of 1

<u>Sign In</u>

Legislative Inforn	nation Ce	enter Home	Legislation	Meetings	Comm	ion Council	
Boards, Commiss	sions and	d Committees	Members				
					(C S	hare 🛿 🏵 🖬 .	RSS Alerts
Details Re	ports						
File #:	·	34559 Vo	ersion: 1		Name:		Awarding Public Works Contract No. 7334, Fire Station #5 Roof Door and Hose Tower Repairs.
Туре:		Resolution			Status:		Passed
File created:		6/23/2014			In contro	11.	BOARD OF PUBLIC WORKS
On agenda:		7/15/2014			Final acti	ion:	7/15/2014
Enactment date:		7/16/2014			Enactme	nt #:	RES-14-00555
Title:		Awarding F Repairs.	Public Works Contrac	t No. 7334,	Fire Stati	on #5 Roof D	oor and Hose Tower
Sponsors:		BOARD OF	PUBLIC WORKS				
Attachments:		1. <u>Contract</u>	: 7334.pdf				
History (3)	Text						
3 records Grou	up Ex	xport					
Date V	/er. A	ction By		Action	Result	Action Details	Watch
7/15/2014 1	. <u>C</u>		UNCIL			Not available	e Not available
7/2/2014 1	. <u>B</u>	OARD OF PL	JBLIC WORKS			Not available	Not available

Refer

Action details

Not available

CONTRACTOR

#### CONTRACT NO. 7334 FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS

# BACHMANN CONSTRUCTION COMPANY, INC.

\$24,230.00

Acct. No. CB53-58401-810713-00-53W1806	\$24,230.00
Contingency 8% <u>+</u>	<u>1,940.00</u>

**GRAND TOTAL** 

\$26,170.00



# Wisconsin Office of the Commissioner of Insurance Licensed Producer Search\*

Monday, August 4, 2014

# MOSCA, ELIZABETH MIDDLETON WI

Year of Birth: 1957 Status: Active License Number: 2530156 NPN\*\*: 12305256 Effective Date: 11-18-2008 Expiration Date: 03-31-2015 License Type: Resident Intermediary Indv CE Compliance: 03-31-2015

#### **Lines of Authority**

Line of Authority	Residency	Effective Date	Status
Property	Resident	11-25-2008	Active
Casualty	Resident	11-18-2008	Active

## **Appointments and Terminations**

	lification e/Status	Effective Date	Termination Date	Termination Reason
American Casualty	CAS/Active	05-21-2013		
Company of Reading, Pennsylvania	CAS/Inactive	01-08-2009	09-29-2010	Vol. Surrender per Agent Rqst
	PROP/Active	05-21-2013		
	PROP/Inactive	01-08-2009	09-29-2010	Vol. Surrender per Agent Rqst
American Economy	CAS/Active	01-18-2010		
Insurance Company	PROP/Active	01-18-2010	)	
American Fire and	CAS/Active	01-18-2010	)	
Casualty Company	PROP/Active	01-18-2010		
American States	CAS/Active	01-18-2010	)	
Insurance Company	PROP/Active	01-18-2010	•	
Berkley Regional	CAS/Active	01-12-2009	)	
Insurance Company	PROP/Active	01-12-2009	)	
Colonial American	CAS/Active	05-14-2013	;	
Casualty and Surety Company	PROP/Active	05-14-2013		
Consolidated	CAS/Active	01-18-2010	)	
Insurance Company	PROP/Active	01-18-2010	)	
Continental Casualty	CAS/Active	05-21-2013		τ.
Company	CAS/Inactive	01-08-2009	09-29-2010	Vol. Surrender per

https://ociaccess.oci.wi.gov/ProducerInfo/GetPrint.oci?prdId=0

				Agent Rqst
	PROP/Active	05-21-2013		
	PROP/Inactive	01-08-2009	09-29-2010	Vol. Surrender per Agent Rqst
Continental	CAS/Active	05-21-2013		
Insurance Company, The	PROP/Active	05-21-2013		
Fidelity and Deposit	CAS/Active	05-14-2013		
Company of Maryland	PROP/Active	05-14-2013		
First National	CAS/Active	01-18-2010		
Insurance Company of America	PROP/Active	01-18-2010		
First Sealord Surety, Inc.	CAS/Inactive	09-17-2009	02-08-2012	Canceled
General Insurance	CAS/Active	01-18-2010		
Company of America	PROP/Active	01-18-2010		
Granite Re, Inc.	CAS/Active	01-14-2009		
Guarantee Company of North America USA, The	CAS/Inactive	01-22-2009	12-28-2011	Vol. Surrender per Agent Rqst
Hawkeye-Security	CAS/Active	01-18-2010		
Insurance Company	PROP/Active	01-18-2010		
Indiana Insurance Company	CAS/Active PROP/Active	01-18-2010 01-18-2010		
Liberty Mutual Insurance Company	CAS/Active	02-04-2010		
Merchants Bonding	CAS/Active	05-03-2013		
Company (Mutual)	CAS/Inactive	12-03-2008	10-12-2010	Canceled
Merchants National Bonding, Inc.	CAS/Active	05-03-2013		*. -
Midwestern	CAS/Active	01-18-2010		
Indemnity Company, The	PROP/Active	01-18-2010		
National Fire	CAS/Active	05-21-2013		
Insurance Company of Hartford	CAS/Inactive	01-08-2009	09-29-2010	Vol. Surrender per Agent Rqst
	PROP/Active	05-21-2013		
	PROP/Inactive	01-08-2009	09-29-2010	Vol. Surrender per Agent Rqst

Netherlands

CAS/Active 01-18-2010

https://ociaccess.oci.wi.gov/ProducerInfo/GetPrint.oci?prdId=0

	Insurance Company, The	PROP/Active	01-18-2010		
	Ohio Casualty Insurance Company, The	CAS/Active PROP/Active	01-18-2010 01-18-2010		
	Ohio Security Insurance Company	CAS/Active PROP/Active	01-18-2010 01-18-2010		
	Old Republic Insurance Company	CAS/Active CAS/Inactive	12-30-2010 12-20-2008	07-06-2010	Canceled
a))	Old Republic Surety Company	CAS/Active CAS/Inactive	12-30-2010 12-20-2008	07-06-2010	Canceled
	Peerless Indemnity Insurance Company	CAS/Active PROP/Active	01-18-2010 01-18-2010	oslatefeld) proc	
	Peerless Insurance Company	CAS/Active PROP/Active	01-18-2010 01-18-2010		
	SAFECO Insurance Company of America	CAS/Active PROP/Active	01-18-2010 01-18-2010		
	SAFECO Insurance Company of Illinois	CAS/Active PROP/Active	01-18-2010 01-18-2010		
	Star Insurance Company	CAS/Inactive PROP/Inactive	07-06-2010 07-06-2010	04-19-2011 04-19-2011	Canceled Canceled
	Transportation Insurance Company	CAS/Active PROP/Active	05-21-2013 05-21-2013		
	United Fire & Casualty Company	CAS/Active PROP/Active	10-03-2013 10-03-2013		
	Valley Forge Insurance Company	CAS/Active PROP/Active	05-21-2013 05-21-2013		
	West American Insurance Company	CAS/Active PROP/Active	01-18-2010 01-18-2010		
	West Bend Mutual Insurance Company	CAS/Active PROP/Active	08-08-2011 08-08-2011		
	Western National Mutual Insurance Company	CAS/Active PROP/Active	04-03-2014 04-03-2014		
	Western Surety Company	CAS/Active CAS/Inactive	09-25-2013 01-08-2009	10-28-2010	Vol. Surrender per Agent Rqst
	Zurich American	CAS/Active	05-14-2013		

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Insurance Company PROP/Active 05-14-2013

- \* Photocopies of this report provided to an insurer should be confirmed on-line for accuracy.
- \*\* NPN = National Producer Number assigned by the National Insurance Producer Registry to assist with nonresident licensing in the future.

https://ociaccess.oci.wi.gov/ProducerInfo/GetPrint.oci?prdId=0

\$24,230 FILE

# BID OF BACHMANN CONSTRUCTION CO., INC.

2014

## PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

## FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS

CONTRACT NO. 7334

**PROJECT NO. 53W1806** IN

## MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL MADISON, WISCONSIN ON JULY 15, 2014

> **CITY ENGINEERING DIVISION** 1600 EMIL STREET MADISON, WISCONSIN 53713

https://bidexpress.com/login

# FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

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SECTION J: PREVAILING WAGE RATES	

This Proposal, and Agreement have been prepared by:

# CITY ENGINEERING DIVISION CITY OF MADISON MADISON, DANE COUNTY, WISCONSIN

lops obut

Robert F. Phillips, P.E., City Engineer

RFP:ps

## SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

#### REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

#### A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS
CONTRACT NO.:	7334
BID BOND	5%
PREQUALIFICATION APPLICATION DUE (1:00 P.M)	JUNE 13, 2014
BID SUBMISSION (1:00 P.M.)	JUNE 20, 2014
BID OPEN (1:30 P.M.)	JUNE 20, 2014
PUBLISHED IN WSJ	6/6/14 & 6/13/14

PREQUALIFICATION APPLICATION: Forms are available at the same location or on our website, <u>www.cityofmadison.com/business/pw/forms.cfm</u>. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

#### STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2014 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, <u>www.cityofmadison.com/Business/PW/specs.cfm</u>.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

#### SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be gualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be prequalified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)I. of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

#### SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express (<u>www.bidexpress.com</u>). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

The Bidder shall execute the Disclosure of Ownership form. REFER TO SECTION F.

#### SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

#### PREVAILING WAGE RATES

Prevailing Wage Rates may be required and are attached in Section J of the contract. See Special Provisions to determine applicability.

# Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an $\boxtimes$

<u>Buil</u>	din	g Demolition		
101		Asbestos Removal	110 🔲 Building Demolition	
120		House Mover		
<u>Stre</u>	et,	Utility and Site Construction		
201			270 🔲 Retaining Walls, Reinforced Concrete	
205			275 🔲 Sanitary, Storm Sewer and Water Main	
,210			Construction	
215			276 🔲 Sawcutting	
220	Ц		280 Sewer Lateral Drain Cleaning/Internal TV Insp.	
221	-	Concrete Bases and Other Concrete Work	285 Sewer Lining	
222			290 🔲 Sewer Pipe Bursting	
225			295 Soil Borings	
230	님	Fencing	300 Soil Nailing	
235	H	Fiber Optic Cable/Conduit Installation	305 Storm & Sanitary Sewer Laterals & Water Svc.	
240	H	<b>U</b>	310 Street Construction	
241 242		Horizontal Saw Cutting of Sidewalk Infrared Seamless Patching	315  Street Lighting 318  Tennis Court Resurfacing	
245		Landscaping, Maintenance	320 Traffic Signals	
250		Landscaping, Maintenance	325 Traffic Signing & Marking	
251		Parking Ramp Maintenance	332 Tree pruning/removal	
252	Π		333 Tree, pesticide treatment of	
255		Pavement Sealcoating and Crack Sealing	335 Trucking	
260	Ħ	Petroleum Above/Below Ground Storage	340 Utility Transmission Lines including Natural Gas	
		Tank Removal/Installation	Electrical & Communications	1
262	Π	Playground Installer	399 🗌 Other	
265		Retaining Walls, Precast Modular Units		
Drid				
	-	Construction Bridge Construction and/or Repair		
501	Ц	Bruge Construction and/or Repair		
Build	ding	g Construction		
401		Floor Covering (including carpet, ceramic tile installation,	437 🔲 Metals	
		rubber, VCT	440 🔲 Painting and Wallcovering	
402		Building Automation Systems	445 🔲 Plumbing	
403		Concrete	450 🔲 Pump Repair	
404		Doors and Windows	455 🔲 Pump Systems	
405		Electrical - Power, Lighting & Communications	460 🔲 Roofing and Moisture Protection	
410		Elevator - Lifts	464 🔲 Tower Crane Operator	
412			461 🔲 Solar Photovoltaic/Hot Water Systems	
413			465 🔲 Soil/Groundwater Remediation	
415		General Building Construction, Equal or Less than \$250,000	466 📃 Warning Sirens	
420			470 🔲 Water Supply Elevated Tanks	
425		General Building Construction, Over \$1,500,000	475 🔲 Water Supply Wells	
428			480 🔲 Wood, Plastics & Composites - Structural &	
429			Architectural	
430		Heating, Ventilating and Air Conditioning (HVAC)	499 🛄 Other	
433				
435	$\boxtimes$	Masonry/Tuck pointing		
State	e of	f Wisconsin Certifications		
1		Class 5 Blaster - Blasting Operations and Activities 2500 feet a	and closer to inhabited buildings for quarries, open pits and	
		road cuts.	and obser to initiabled sandings for quarties, sport ple and	
2		Class 6 Blaster - Blasting Operations and Activities 2500 feet a	and closer to inhabited buildings for trenches, site	
		excavations, basements, underwater demolition, underground		
3		Class 7 Blaster - Blasting Operations and Activities for structur		
		the objects or purposes listed as "Class 5 Blaster or Class 6 B	laster".	
4		Petroleum Above/Below Ground Storage Tank Removal and II		
5		Hazardous Material Removal (Contractor to be certified for ask		
		of Health Services, Asbestos and Lead Section (A&LS).) See t		·
		www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Pe	rformance of Asbestos Abatement Certificate must be	
-	_	attached.		
6	$\Box$	Certification number as a Certified Arborist or Certified Tree W	orker as administered by the International Society of	
7		Arboriculture	as the with the portification is the action of the ford	
7		Pesticide application (Certification for Commercial Applicator F landscape (3.0) and possess a current license issued by the D		
			· · · · · · · · · · · · · · · · · · ·	

8 State of Wisconsin Master Plumbers License.

**SECTION B: PROPOSAL** 

# Please refer to the Bid Express Website at <u>https://bidexpress.com</u> look up contract number and go to Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

# SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders City of Madison SBE Program Information

SBE NOT APPLICABLE

# SECTION D: SPECIAL PROVISIONS

# FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

#### SECTION 102.10: PREVAILING WAGE

For this project, payment of prevailing wages (white sheet) shall be required unless the box indicating prevailing wages are not required is checked below.

 $\boxtimes$ 

Prevailing wages shall not be required when this box is checked.

If prevailing wages (white sheets) are required, the wages and benefits paid on the contract shall not be less than those specified in the Prevailing Wage Determination included with these contract documents for the following types of work:

Building and Heavy Construction

Sewer, Water, and Tunnel Construction

Local Street and Miscellaneous Paving Operations

Residential and Agricultural Construction

#### SECTION 102.12: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$54,000 for a single trade contract; or equal to or greater than \$264,500 for a multi-trade contract pursuant to MGO 33.07(7).

#### SECTION 109.7 CONTRACT TIME

The contractor shall begin work on or before <u>August 18<sup>th</sup> 14, 2014.</u> The total time of completion of the contract shall be <u>SEVENTY-FIVE (75) CALENDAR DAYS</u>. Work shall begin only after start work letter is received. If it is desirable to begin work before the above-mentioned date, the contractor shall establish a mutually acceptable date with the City Engineer.

# SECTION 01 00 00 GENERAL REQUIREMENT

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#### PART 1 – GENERAL

#### 1.1. SCOPE

A. Work for this project shall consist of the following work:

- Demolish and remove all masonry materials and structure in order to provide a new door opening in the north hose tower wall just above the roof line as indicated on the plans. Salvage as many brick as possible for later reuse. Prepare the opening with a steel lintel and concrete door sill.
- Remove existing hose rack and all necessary structure to allow for door and platform installation
- Provide a Special Lite SL-20 FRP fiberglass door with frame and hardware as indicated on the plans. Install within the masonry wall opening of the hose tower as to allow access to the roof.
- Install concrete pavers over existing EPDM roofing membrane.
- Install a wooden interior platform within the hose tower as indicated on the plans.
- Modify the existing ladder to allow access to the above platform.
- Perform masonry and soft joint repairs to the exterior and interior of the hose tower per plans and specifications.
- Remove two wall louvers and one duct hood on the exterior of the hose tower as indicated on the plans. These openings are to have the existing steel lintels removed and the area shall be filled with brick on the exterior and new CMUs on the interior to match existing wall condition. Note, interior ductwork, connected equipment and plumbing lines shall be removed by the City's Facility Maintenance staff as indicated in section 1.5 below.
- Paint and caulk of the exterior louvers, windows and new door as indicated on the plans.

All work shall be completed per attached drawings and specification.

#### 1.2. PRE-BID INFORMATION

A. There will be a pre-bid tour of the existing building on <u>Thursday</u>, <u>June 12<sup>th</sup></u>, <u>2014 at 10:00 AM</u> to provide bidders the opportunity to acquaint themselves with the project. A representative from the designer's office will be present to take questions that will be answered by addendum.

#### 1.3. CONTACTS

- A. Send all pre-bid inquiries to the owner's project management
- B. The owner's designee for project management:
  - 1. Paul Stauffer
  - 2. Company: City of Madison
  - 3. Address: Room 115, 210 Martin Luther King Jr. Blvd.
  - 4. Phone: 608-266-4366
  - 5. Email: pstauffer@cityofmadison.com

C. The owner's designee for architecture and engineering is:

- 1. Paul Stauffer
- 2. Company: City of Madison
- 3. Address: Room 115, 210 Martin Luther King Jr. Blvd.
- 4. Phone: 608-266-4366
- 5. Email: pstauffer@cityofmadison.com

#### **1.4. QUALIFICATIONS OF BIDDER**

A. By submitting the bid, the bidder and each subcontractor certifies as to meeting the following requirements:

- 1. Has completed one projects of at least 50% of the size or value of the division of work being bid and the type of work completed is similar to that being bid. Additional requirements will be described in the appropriate technical section of these specifications.
- 2. Has access to all necessary equipment and has organizational capacity and technical competence necessary to do the work properly and expeditiously.
- 3. Maintains a permanent place of business.

#### 1.5. WORK BY THE OWNER AND OWNER FURNISHED EQUIPMENT

A. All asbestos removal will be performed by separate owner -hired asbestos contractor and contractor needs to accommodate asbestos contractor's work. There is no anticipated removal of asbestos.

B. The following work/materials shall be accomplished/provided by the owner and shall not be included under this Contract. The contractor shall coordinate his work with the work provided :

- 1. Replacement bricks shall be salvaged from the brick removed in preparation of the door opening. Any additional bricks beyond the amount recovered shall be supplied by the City. The contractor shall pick up these brick at County Materials located at 6399 Nesbitt Rd. Madison WI.
- 2. The York Flash-Vent Stainless Steel thru wall flashing above the door shall be supplied by the City.
- 3. The City's maintenance staff shall reroute the solar panel water lines as required in order to avoid interference with the installation of the interior wooden deck platform if required. They shall also remove the interior ductwork and associated equipment that will interfere with the installation of the wooden deck platform.

#### **1.6. SALVAGE MATERIALS**

A. No materials removed from this project shall be reused except as specifically noted below. All materials removed shall become the property of and shall be disposed of by the Contractor.

#### **1.7. PROVISIONS FOR FUTURE WORK**

A. Do not disconnect any electrical circuits that are part of the emergency power system. If such circuit is specified or labeled on drawings as to be disconnected or removed, verify with owner.

#### **1.8. SPECIAL SITE CONDITIONS**

A. Unless otherwise noted, construction operations shall be limited to the hours between **7:00** *a.m.* and **7:00** *p.m.*, Mondays through Fridays, except for holidays. A request must be made to the City forty-eight hours in advance for approval of work days or hours other than those stated above. Compliance is required with the City of Madison Noise Ordinance. Madison General Ordinance 24.08 does **NOT** allow the use of any equipment used in construction between the hours of **7:00** *p.m.* and **7:00** *a.m.* in such a manner as to unreasonably interfere with the peace, comfort and quality of life of the neighboring persons of ordinary sensibilities. The intent here is to not allow the use of equipment, i.e. hammers, power saws, compressors, pneumatic tools, etc. between the hours of 7:00 p.m. and 7:00 a.m., when the noise would disturb neighbors.

**B. TOILETS:** 

- 1. Public restrooms are provided on site. The Contractor's labor force may use City facilities upon approval by the City. The Contractor shall maintain the toilets and other spaces provided by the City in clean and sanitary condition at all times. The contractor has the option to provide temporary restroom facilities at their own expense.
- 2. The Contractor may provide and maintain sanitary temporary toilets, located where directed by the owner, in sufficient number required for the force employed. The toilets shall comply with International Building Code Chapter 29 on Plumbing Systems. Toilets shall be self-contained chemical type.
- 3. The Contractor shall maintain the temporary toilets in a sanitary condition at all times and shall supply toilet paper until completion of the job.

#### 1.9. ALTERNATES

A. Not applicable

#### **1.10. STANDARD SPECIFICATIONS**

A. The City of Madison Standard Publications for Public Works Construction (Edition at publication date of this bid) forms a part of these contract documents as if attached hereto. These Standard Specifications are available from the City Engineer, City Engineering Division, Room 115, City County Building, 210 Martin Luther King Jr. Blvd., Madison, WI 53710 or electronically from the City Website <u>http://www.cityofmadison.com/business/pw/specs.cfm</u>. The Contractor shall review these standard specifications prior to preparation of proposal for the work to be done under this contract. Failure to do so does not relive the Contractor from meeting all requirements.

#### **1.11. GENERAL REQUIREMENTS**

- A. All articles in these General Requirements are applicable to all Divisions fully as if repeated within that Division. The Conditions of the Contract, General and Supplementary General Conditions, and these General Requirements shall apply to the Contractor engaged in this work. Items listed under Scope of Work are not necessarily all inclusive. These specifications and drawings are intended to include everything necessary to perform the entire work properly. Every item necessarily required might not be specifically mentioned or shown. Unless expressly stated, all systems and equipment shall be complete and operable. All devices and installation methods necessary for a functioning system are considered included in this contract even if a detail is missing or unclear. The words "furnish", "install", "as required", and "provide" shall mean the same in a sense that the Contractor shall furnish and install all the necessary materials, apparatus, and devices to complete the equipment and systems installation herein specified, except such parts as are specifically exempted herein. This also includes that the contractor demolishes and disposes of an existing item if demolition is required to install the new item, even if demolition drawings or specification don't mention demolition of the specific item. If an item is either called for in the specifications or shown on the plans, it shall be considered sufficient for the inclusion of said item in this contract.
- B. The terms "city", "owner", city engineer" and "project manager" are used interchangeably. The terms "contractor", "subcontractor" and "general contractor" are used interchangeably.
- C. Portions of these specifications are of the abbreviated, simplified type and may include incomplete sentences. Omissions of words or phrases such as "the Contractor shall", "in conformity with", "shall be", "as noted on the drawings", "in accordance with details", are intentional. Omitted words or phrases shall be supplied by inference in the same manner, as they are when a note occurs on the drawings. Such terms as approved, reviewed, equal, as directed, , as permitted, acceptable, satisfactory mean by or to the owner.
- D. If a conflict exists within the Specifications or exists within the Drawings, the Contractor shall furnish the item, system, or workmanship, which is the highest quality, largest, largest quantity or most closely fits the owner's intent. Materials and labor shall be new (unless noted or stated otherwise), first class, and workmanlike, and shall be subject at all times to the owner's inspections, tests and approval from the commencement until the acceptance of the completed work. Whenever a particular manufacturer's product is named, it is intended to establish a level of quality and performance requirements unless more explicit restrictions are stated to apply. It must be understood that the details and drawings are diagrammatic. The Contractor shall verify all dimensions at the site and be responsible for their accuracy. If items are too large to fit into existing space Contractor shall provide smaller model of same type upon approval by owner at no cost to owner. All sizes as given are minimum except as noted. Prior to bidding, bidder must visit site to become familiar and verify existing conditions. Failure to do so does not relieve the bidder from the responsibility to verify existing conditions, to point out errors in drawings or specifications or code violations.
- E. The area to be set aside for the work under this contract is shown on the drawings, and the Contractor shall confine the construction to the immediate area within the construction limits. The Contractor shall immediately upon entering the site for purpose of beginning work, locate general reference points and take such action as is necessary to prevent their destruction. The Contractor shall lay out its work and be responsible for all lines, elevations and measurements of the building and other work executed under its Contract. The Contractor must exercise proper precaution to verify dimensions on the drawings before laying out work and will be held responsible for any error resulting from failure to exercise such precaution. The Contractor shall verify grades, lines, levels, locations, and dimensions as shown on drawings and report any errors or inconsistencies to owner before commencing work. Starting of work by the Contractor shall imply acceptance of existing conditions. Confine all operations, equipment, apparatus and storage of materials, to the immediate area of work to the greatest possible extent. Contractor shall ascertain, observe and comply with all rules and regulations in effect on the project site, including but not limited to parking and traffic regulations, use of walks, security restrictions and hours of allowable ingress and egress. Any special traffic control during construction involving lane closures shall be in accordance with the federal standard, Manual of Uniform Traffic Control Devices.

- F. The work site shall be kept clean and neat at all times. Accumulation of debris shall be avoided and all new equipment and material shall be stored neatly and protected. Failure to comply will result in the contractor responsible for the disorderly conditions to be removed from job site.
- G. Owner will not furnish Watchpersons. The Contractor shall provide such precautionary measures, to include the furnishing of watchpersons if deemed necessary, to protect persons and property from damage or loss where the Contractor's work is involved. The contractor is responsible for securing any material stored on site. In case of theft or damage

#### 1.12. CONTRACTOR'S RESPONSIBILITY PRIOR BIDDING

- A. Bidders shall bring inadequacies, omissions or conflicts to owner's attention at least ten (10) days before the date set for bid submission. Prompt clarification will be supplied to all bidders of record by addendum. Failure to request clarification or interpretation of the drawings and specifications will not relieve the successful Bidder of responsibility. Signing of the contract will be considered as implicitly denoting that the Contractor has thorough understanding of the scope of work, existing conditions, and comprehension of the contract documents. Owner is not responsible for verbal instructions.
- B. During bidding time owner will allow contractors to visit the site to familiarize themselves with the existing conditions and to ask questions for clarification. Failure to attend the scheduled walkthrough implies that the contractor accepts all existing conditions and includes all work to handle existing conditions in his bid price.
- C. Prior bidding, bidder must obtain information on payment conditions, discounts, shipping charges, and other cost from vendor and/or manufacturer of the products specified.

#### **1.13. PAYMENT AND CHANGE ORDERS**

- A. PAYMENTS: will be made based on progress of work. No payments will be made for occurred overhead cost that did not materialize in actual installation. Examples of cost to the contractor that is not part of partial payment are project management cost, bond cost etc. These cost will be covered proportionally for actual work done on site. No payments shall be made for material that is not installed.
- B. PAY APPLICATION: The Contractor is responsible for providing the Owner partial payment applications on form AIA Document G702 Application for Payment and AIA Document G703 Continuation Sheet (with schedule of values). Before the first Application for Payment, the Contractor shall submit to the A/E a schedule of values of the various portions of the Work, including quantities if required by the A/E aggregating the total Contract Sum, divided so as to facilitate payments to Subcontractors. Prepare a schedule of values in such form and supported by such substantiating data as the A/E and Owner may require. Each item in the schedule of values shall include its proper share of overhead and profit. This schedule, when approved by the A/E, shall be used only as a basis for reviewing the Contractor's Applications for Payment.
- C. CHANGE ORDERS: Changes only will be accepted if approved prior work done. No payment shall be made if contractor if contractor commences work without a cost is agreed on. In case of field change orders a price range has to be agreed on at minimum. If contractor does not provide cost before the additional work is done, it is assumed the contractor agreed that this work was part of the original contract.
- D. CHANGE ORDER MARKUP: Contractor shall supply all documentation for evaluation of reasonableness of change order price. These include but are not limited to subcontractor quotes, supplier quotes, time estimates and others. Markup on subcontractor price shall not exceed the value allowed by the Standard Specifications referenced in this contract. This markup will cover all the contractor expenses including added bond, insurance and other cost.

#### 1.14. COOPERATION AND RESPONSIBILITIES BETWEEN TRADES

- A. The Contractor assumes responsibility for all work specified in this contract except for work explicitly noted as be done by owner or a Contractor separately hired by owner. The Contractor coordinate the work of all trades on the project. If plans or specifications designate parts of the work to be done by a specific trade it is meant as a suggestion only. It is up to the trades to agree on division of work and cost. Any work not done by a subcontractor will be the responsibility of the contractor (general contractor, party the owner is in contract with).
- B. All Contractors shall work in cooperation with the Contractor and with each other, and fit their work into the structure as job conditions may demand. Owner shall make all final decisions as to the right-of-

way and run of pipe, ducts, etc., at prearranged meetings with responsible representatives of the Contractors involved. Contractor(s) shall coordinate the work with adjacent work with other Contractors prior to installation and shall cooperate with all other trades to facilitate the general progress of the work. The Contractor shall coordinate and schedule the work of all its subcontractors, and shall furnish all information required by them for proper scheduling and execution of the work. In the same manner, the Contractor shall coordinate the work with that of owner, and any other Contractor operating in the area, including reasonable adjustments of schedule in order to allow other Contractors or the owner to do their work. Any installed work that is not coordinated and that interferes with other Contractor's work shall be removed or relocated at the Contractor's expense.

C. In case it is indicated which trade is responsible for which work, this is meant as a suggestion and it is the Contractor's responsibility in its contracts with subcontractors to clarify who ultimately will do the -work. If conflicts arise between the Contractor and subcontractor about who is responsible for which work to be done it is the Contractor's responsibility to make sure the work gets done in time even if the dispute between Contractor and subcontractor gets settled later.

#### 1.15. SUBMITTALS

- A. Documents have to be submitted in electronic form (PDF) as described elsewhere in addition to hardcopies no later than 3 business days after start work letter is issued. Owner will review, and process shop drawings and other required submittals with reasonable promptness. No delay will be allowed in the progress of the job attributable to Contractor's failure to supply submittals in time. PDF shall be in good quality in electronic original from manufacturer. Scanned PDF are not acceptable.
- B. The Contractor shall submit three (3) prints of all shop drawings, submittal data consisting of brochures, catalogs, material lists, wiring diagrams, Material Safety Data Sheets (MSDS), samples, erection drawings, and equipment layouts for review by owner. General catalog sheets showing a series of the same device is not acceptable unless the specific model is clearly marked. Each submittal shall be provided together with a transmittal letter or form. Each original transmittal shall be assigned a transmittal number. The number shall begin with the first initial of the name of the Contractor's firm followed by a serial number. The re-submittals shall indicate the same number with numerical suffix in sequence. Each transmittal shall itemize the enclosures and indicate the distribution of the transmittal and the enclosures. The following information shall be included on all submitted documents: Agency/Location/Address obtained, project number, building name, project name. Submittals shall be grouped to include complete submittals of related systems, products, and accessories in a single submittal. Mark dimensions and values in units to match those specified. Include wiring diagrams of electrically powered equipment.
- C. Submit all original documents providing information regarding sustainability requirements including but not limited to recycled content, VOC, certified wood, disposal certificates and transportation distance. Contractor is required to prove that material and methods used meet all requirements specified elsewhere.
- D. Owner will return the marked and stamped drawings together with transmittal letter or form to Contractor. If re-submittal is required, owner will so note and Contractor shall make another submission for review after correction resolving the review comments on the prior submittals. The above procedure shall be repeated until owner favorably reviews the submittal. The submittals must be approved before material is ordered and fabrication is authorized.
- E. Owner's favorable review of shop drawings and other submittals shall not relieve the Contractor of responsibility for deviations from drawings or specifications, unless the Contractor has in writing called the owner's attention to such deviations at the time of submission, and the owner has acknowledged in writing such deviations; nor shall it relieve the Contractor from responsibility for errors of any sort in such drawings. If deviations, discrepancies, or conflicts between shop drawing submittals and the drawings and specifications are discovered either prior to or after the shop drawing submittals are reviewed by owner, the drawings and specifications shall control and shall be followed. The Contractor shall be responsible for and shall check the correctness of all documents including those subcontractors prior to submitting them to owner for review.
- F. The Contractor shall furnish prints of the favorably reviewed final shop drawings, erection drawings, equipment layouts and vendor data to subcontractors and suppliers for the proper coordination of their work. The Contractor shall keep one (1) complete set of the above documents at the job site for the use by owner.

- G. After the completion of the project, and prior to final payment, submit:
  - 1. One (1) copy of the Waste Manifest Records to the owner, if required in accordance with "Safety and Environment" Requirements Article "HAZARDOUS SUBSTANCES".
  - 2. The original and one (1) copy of all guarantee/warranty documents.

#### 1.16. GUARANTEES

- A. All work, material and equipment is guaranteed by the Contractor to be free of faults for at least one year or longer if specified elsewhere. This year begins from the date of final acceptance from owner. The Contractor agrees to return to the project and commence work as directed upon notification by owner and will furnish at his own expense all necessary labor and material to make proper repairs or corrections made necessary by defective material or inferior workmanship furnished or performed under this contract. If a subcontractor is not complying, the Contractor is held responsible.
- B. All corrections and repairs are to be made no more than 30 days after notification of the Contractor for equipment and material that is not critical to the operation of the building. Critical equipment and material, including but not limited to HVAC, roofing, electrical, elevator, shall be repaired or brought into temporary and safe working condition in less than 7 days and temporary alternatives have to be provided by the Contractor if function is critical for use of the facility. If Contractor fails to do so the owner reserves the right to perform the work himself or subcontract a different Contractor and charge the Contractor the full cost of the repair and correction and cost of any material, rental fee, labor and equipment to provide temporary relief and protection to enable safe operation of the building.
- C. All equipment and material warranty by the manufacturer that lasts longer than the 1-year warranty by the contractor requires sufficient documentation acceptable by the manufacturer to honor the warranty beyond the first year. documents required include manufacturer's warranty certification for this specific material and equipment at the job site, purchase orders or any other documents that will be required beyond the first year for the manufacturer to honor warranty.

#### 1.17. SCHEDULE OF OPERATIONS

- A. Within 5 calendar days after the effective date of Start Work Letter, the Contractor shall provide a preliminary construction progress schedule.
- B. Install work in phases to accommodate owner 's occupancy requirements. During the construction period coordinate electrical schedule and operations with owner.
- **C.** After the initial submittal, the Contractor shall update the schedule as required by entering actual progress for the period and submit copies as part of the payment request.

#### 1.18. DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

- A. Drawings indicate approximate locations of the various items. These items are shown approximately to scale and attempt to show how these items should be integrated with building construction. Locate all the various items on-the-job measurements in conformance with code and cooperation with other trades. Before locating items, confer with the owner as to desired location in the various areas. In no case items shall be located by scaling drawings. Contractor must relocate items and bear cost of redoing work or other trades' work necessitated by failure to comply with this requirement.
- B. Demolition drawings, location, circuit numbers, number and type of fixtures, type of mounting and control devices may not be correct. All sizes are approximations and have to be field-verified by contractor. In case of a discrepancy within and between the drawings that would cause and awkward or improper installation the engineer has to be notified for clarification prior to installation. Any work in conflict with the drawings shall be corrected at contractor's expense and at no cost to the owner. Contractor shall determine if scheduled devices fit into space and shall advice if not BEFORE ordering fixtures or devices.
- C. Information pertaining to existing conditions that are described in the specifications or appear on the drawings is based on available records. While such data has been collected with reasonable care, there is no expressed or implied guarantee that conditions so indicated are entirely representative of those actually existing. This information is provided to inform the Contractor of known, existing conditions so that due diligence is taken by the Contractor to avoid damage. Where site observation or documents indicate existing underground utilities/services in close proximity (within four feet horizontally and/or four feet vertically) to necessary new construction work, the Contractor shall be responsible to test, probe or otherwise determine exact locations so as to prevent damage to such utilities/services.

- D. Standard References such as ANSI, AASHO, AWWA, AISC, Commercial Standards, Federal Specifications, NEMA, UL, and the like incorporated in the requirements by reference shall be those of the latest edition at time of receiving bids, unless otherwise specified. The manufacturers, producers and their agents of required materials shall have such specifications available for reference and are fully familiar with their requirements as pertains to their product or material.
- E. The Contractor shall not take advantage of any apparent error or omission in the plans or specifications, and the owner shall be permitted to make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications.
- F. In addition to verifying at the site all measurements shown on the Drawings, Contractor shall consult the Drawings and Specifications of related work or existing construction that may in any manner affect the work of this contract. Contractor shall promptly report to the owner, in writing, any errors, omissions, violations, or inconsistencies that may be discovered as a result of such verifications; otherwise, it shall be understood that Contractor accepts all such related data and conditions without reservations.
- G. Each trade shall keep one set of plans and specifications on site. In addition construction bulletins, change orders etc. as applicable to the trades shall be on site.
- H. It shall be the responsibility of the Contractor to submit to the owner within ten (10) days after final inspection, one complete marked-up set of contract drawings fully illustrating all revisions made by all the crafts in the course of the work. This shall include all field changes, adjustments, variances, substitutions and deletions, whether covered by Change Order or not. Underground utility installations must be located precisely as constructed on the marked-up drawings. Contractor shall markup changes for as-built drawings on a daily base.
- I. Layout of existing piping, conduits, and locations of equipment are shown as exactly as could be determined during design of the facilities; but their accuracy, particularly when such layouts and drawings are schematic, cannot be guaranteed. Contractor shall check all Specifications including the Drawings for possible interference with electrical, mechanical, and structural details, as well as interference with existing building or equipment, and shall notify the owner of the interference for resolution of the interference before commencing work. Any completed work that interferes shall be corrected by Contractor at Contractor expense so that the original design can be followed.
- J. Electronic design files may be provided by the owner at its digression as they are needed for the contractor to perform the work. Contractor shall use electronic design files on their own risk and assume all liability. Electronic documents are not contract documents and significant discrepancies may exist between these electronic files and contract documents and actual site conditions.
- K. Contractor shall provide list with all equipment installed. This list shall contain, but not limited to, type, make and special product key and number. For grant purposes the contractor may have to provide detailed information about equipment installed and labor provided to third party institutions, such as Focus on Energy.
- L. Using datum, the lot lines and present levels have been established as shown on the drawings. Other grades, lines, levels and benchmarks, shall be established and maintained by the Contractor, who shall be responsible for them. As work progresses, the Contractor shall lay out on forms and floor, the locations of all partitions, walls and fix column centerlines as a guide to all trades. The Contractor shall make provision to preserve property line stakes, benchmarks, or datum point. If any are lost, displaced or disturbed through neglect of any Contractor, Contractor's agents or employees, the Contractor responsible shall pay the cost of restoration.

#### **1.19. QUALITY ASSURANCE**

- A. Any installed material not meeting the specification requirements must be replaced with material that meets these specifications without additional cost to owner.
- B. All products and materials used are to be new, undamaged, clean and in good condition. Existing products and materials are not to be reused unless specifically indicated.
- C. Where equipment or accessories are used which differ in arrangement, configuration, dimensions, ratings, or engineering parameters from those indicated on the contract documents, the Contractor is responsible for all costs involved in integrating the equipment or accessories into the system and for obtaining the performance from the system into which these items are placed. This may include changes found necessary during the testing, adjusting, and balancing phase of the project.
- D. Welding procedures, welders, and welding operators for all building service piping to be in accordance with certified welding procedures of the National Certified Pipe Welding Bureau and Section 927.5 of

ASME B31.9 Building Services Piping or AWS 10.9 Qualification of Welding Procedures and Welders for Piping and Tubing. <u>Before any metallic welding</u> is performed, Contractor to submit his Standard Welding Procedure Specification together with the Procedure Qualification Record as required by Section 927.6 of ASME B31.9 Building Services Piping. <u>Before any metallic welding</u> is performed, Contractor to submit his Standard Welding Procedure Specification together with the Procedure Qualification Record as required by Section 1X of the ASME Boiler and Pressure Vessel Code and/or the National Certified Pipe Welding Bureau. Before any polyethylene fusion welding is performed, Contractor to submit certification that the welders to be used on this project have successfully demonstrated proper welding procedures in accordance with the Code of Federal Regulations, Title 49, Part 192, Section 192.285.

- E. Contractor shall assume the responsibility for the protection of all finished construction under the Contract and shall repair and restore any and all damage of finished work to its original state. Wheeling of any loads over any type of floor, either with or without plank protection, will be permitted only in rubber-tired wheelbarrows, buggies, trucks or dollies. Where structural concrete is also the finished surface, care must be taken to avoid marking or damaging those surfaces. All structures and equipment shall be constructed, installed and operated with guards, controls and other devices in place.
- F. Contractor shall obtain complete data at the site and inspect surfaces that are to receive the Work before proceeding with fabricating, assembling, fitting or erecting any work under this contract. Contractor shall notify owner in writing in case of discrepancies between existing work and drawings, and of any defects in such surfaces that are to receive the Contractor's work. Owner will evaluate the notice and direct what remedial action will be taken.
- G. Starting of work implies acceptance of existing work or the work of others. Removal and replacement of work applied to defective surfaces, in order to correct defects, shall be done at the expense of the Contractor who applied work to defective surfaces.
- H. For outdoor work the Contractor shall:
  - 1. Provide, erect and maintain all required planking, barricades, guard rails, temporary walkways, etc., of sufficient size and strength necessary for protection of stored material and equipment; paved surfaces, walks, curbs, gutters and drives; streets adjacent to or within project area; adjoining property and all project work to prevent accidents to the public and the workmen at the job site.
  - 2. Notify adjacent property owners if their property interferes with the work so that arrangements for proper protection can be made.
  - 3. Provide and maintain proper shoring and bracing to prevent earth from caving or washing into the building excavation. Provide temporary protection around openings through floors and roofs, including elevator openings, stairwells, and edge of slabs.
  - 4. Provide and maintain proper shoring and bracing for existing underground utilities, sewers, etc., encountered during excavation work, to protect them from collapse or other type of damage until such time as they are to be removed, incorporated into the new work, or can be properly backfilled upon completion of new work.
  - 5. Provide protection against rain, snow, wind, ice, storms, or heat to maintain all work, materials, apparatus, and fixtures, incorporated in the work or stored on the site, free from injury or damage. At the end of the day's work, cover all new work likely to be damaged. Remove snow and ice as necessary for safety and proper execution of the work.
  - 6. Protect the building and foundations from damage at all times from rain, ground water and back up from drains or sewers. Provide all equipment and enclosures as necessary to provide this protection.
  - 7. Damaged property shall be repaired or replaced in order to return it to its original condition. Damaged lawns shall be replaced with sod.
  - 8. Protect materials, work and equipment, not normally covered by above protection, until construction proceeds to a point where the general building protection of the area where located, dispenses with the necessity therefore. Protect work outside of the building lines such as trenches and open excavations, as specified above.
  - 9. Take all necessary precautions to protect owner 's property as well as adjacent property, including trees, shrubs, buildings, sanitary and storm sewers, water piping, gas piping, electric conduit or cable, etc., from any and all damage which may result due to work on this project.
  - 10. Repair work outside of property line in accordance with the requirements of the authority having jurisdiction.

- 11. Repair any work, damaged by failure to provide proper and adequate protection, to its original state to the satisfaction of owner or remove and replace with new work at the Contractor's expense.
- 12. Protect trees indicated on the drawings to remain and trees in locations that would not interfere with new construction, from all damage. Do not injure trunks, branches, or roots of trees that are to remain. Do cutting and trimming only as approved and as directed by owner. The value of trees destroyed or damaged will be charged against the account of the Contractor responsible for the damage in an amount equal to the expense of replacing the trees with those of similar kind and size.
- I. The contractor shall be fully responsible for inspecting the work of its suppliers, and subcontractors to assure that the work complies with the standards for materials and workmanship required by the contract documents. The Contractor shall:
  - 1. Monitor quality control over subcontractors, suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of the quality specified in the contract documents.
  - 2. Comply fully with manufacturer's instructions, including each step in sequence.
  - 3. Request clarification from owner before proceeding with work when manufacturers' instructions or reference standards conflict with Subcontract Documents.
  - 4. Comply with specified standards as a minimum quality for the work except when more stringent tolerances, codes, or manufactures instructions require more precise workmanship.
  - 5. Ensure that work is performed by persons specializing in the specific trade and class of work required, and qualified to produce workmanship of specified quality.
  - 6. Secure products in place with positive anchorage devices designed and sized to withstand seismic, static and dynamic loading, vibration, physical distortion or disfigurement.
- J. If reference standards or manufacturers' instructions contain provisions that would alter or are at variance with relationships between the parties to the contract set forth in the contract Documents, the provisions in the contract Documents shall take precedence.
- K. When required by individual Specification sections, Contractor shall provide the following services from a manufacturer's representative:
  - 1. Review of Specifications and design and concurrence or suggestions for modification.
  - 2. Site observation of conditions of use and substrate.
  - 3. Observation of the installation work in progress and on completion.
  - 4. Start up, testing, and adjustment of equipment.
  - 5. Instruction to the owner in operation and maintenance.
  - 6. Provide written signed report by manufacturer's representative documenting services provided and any comments or recommendations.
- L. Inspection or testing performed by the owner shall not relieve the Contractor from responsibility for performing his own quality control and for complying with the requirements of the contract Documents. Owner will not be responsible for the Contractor's failure to carry out work in accordance with the contract Documents.

#### 1.20. CODES AND PERMITS

- A. Applicable provisions of Public Law, the Constitution and Laws and Statutes of the State of Wisconsin and the codes and regulations of governmental departments are hereby referred to and made a part of this contract and all work performed shall be in accordance with such laws, regulations and the latest edition or supplement or amendment thereto in effect at the time of submittal of bid shall be considered to be the issue in effect (unless shown otherwise) of all applicable codes including, but not limited to:
  - 1. Wisconsin Building Code
  - 2. Wisconsin Electrical Code
  - 3. Wisconsin Mechanical Code
  - 4. Wisconsin Plumbing Code
  - 5. Wisconsin Energy Code
  - 6. Wisconsin Fire Code
  - 7. NFPA 70 National Electrical Code
  - 8. General Services Administration 41 CFR Part 101-19
  - 9. Americans with Disabilities Act (ADA)
  - 10. Energy Conservation Performance Standards,
  - 11.Local Codes

12. Occupational Safety and Health Act (OSHA)

13. Occupational Safety and Health Standards, Department of Labor

14. Safety and Health Regulations for Construction, Department of Labor

15. Wisconsin Fire Code

16. National Electrical Safety Code, ANSI C2

17. Environmental Protection Agency regulations

18. Clean Air Act

19. Clean Water Act

20. Resource Conservation and Recovery Act

21. Toxic substances Control Act

22. Wisconsin Department of Health and Family Services

23. State and Regional Water Quality Control Boards

24. County and Municipal ordinances

- B. In case of conflict or overlap of the above references, the most stringent provision shall apply.
- C. The newest version of the a code or standard shall apply even if an older version is adopted by the Jurisdiction Having Authority.
- D. If necessary, file and maintain Notification of Demolition and/or Renovation and Application for Permit Exemption (WDNR Form 4500-113) in accordance with the Wisconsin Administrative Code Chapter NR447.
- E. Contractor is expected to know or to ascertain, in general and in detail, the requirements of all codes and ordinances, and all rulings and interpretations of code requirements being made by all authorities having jurisdiction over the work performed by them, applicable to the construction and operation of systems covered by this contract. Where codes or standard specifications other than those listed in this paragraph are referred to in the different Divisions of these specifications, it is understood that they apply as fully as if cited here. Where differences exist between codes affecting this work, the code affording the greatest protection to the owner shall govern.
- F. All cost for items and procedures necessary to satisfy requirements of all applicable codes, ordinances and authorities, whether or not these are specifically covered by drawings or specifications. All cases of serious conflict or omission between the drawings, specifications, and codes shall be brought to the owner's attention as herein before specified. The Contractor shall carry out work and complete construction as required by applicable codes and ordinances and in such a manner as to obtain approval of all authorities whose approval is required.
- G. Contractor is responsible for obtaining permits at its own cost including expenses for supporting documents. Deliver original permits to the owner before work starts. Apply for, arrange and pay for all required installation inspections required. Deliver originals of these certificates to the owner. Include copies of the certificates in the Operating and Maintenance Instructions. Contractor shall arrange all required inspections and correct all deficiencies at no cost to owner.
- H. The Contractor must maintain all licenses required for the work performed and required by authorities. The Contractor must submit proof of holding the license or certificate upon request. If a Contractor loses a license for whatever reason he must inform the owner immediately after learning about that himself.
- PERMIT TO PENETRATE GROUND OR EXISTING SURFACES OF OWNER PROPERTY.
  - Prior to any penetration of the ground or existing concrete surfaces (including the use of stakes or poles) in excess of 1.5", the Subcontractor shall obtain from the Project Representative a Permit to penetrate or Excavate Existing Surface of owner property and shall adhere to the conditions of the permit during such work. The Permit and all conditions in it shall be considered part of these specifications and shall be included in the contractor's bid amount.
  - 2. In areas where a Permit to penetrate or excavate existing surfaces of owner property is not required, contractors shall verify by safe means, prior to drilling, that no utilities or services are enclosed within the area to be drilled.
- J. FIRE SAFETY PERMIT:
  - All operations with open flames or that cause sparks or is near gas lines or near combustible storage containers require a daily Fire Safety Permit issued by the Project Representative. Contractor shall not commence such work until the permit is issued. Activities requiring a Permit include, but are not limited to, electric arc and gas welding and flame cutting, other open flame operations, tar kettles, powder activated tools and excavations. Fire watch personnel shall be provided the contractor in sufficient number to continuously monitor all locations where work is

conducting requiring a fire permit. The fire watch personnel shall remain on the job at least thirty minutes after such operations are completed. Fire safety personnel may be installers or welders.

- 2. Noncombustible shields or covers shall be provided by the contractor on tables, floors, walls, around the workstation, and over equipment to protect building structures, equipment and personnel from sparks and fragments of hot metal. Contractor shall also take these precautions to protect against sparks and hot metallic oxides generated by grinding, drilling or sawing operations.
- K. AIR EMISSIONS PERMITS AND NOTIFICATIONS:
  - 1. For all projects that involve demolition of a structure, the contractor shall complete the asbestos demolition forms and notify all related authorities at least 10 working days in advance of the activity, regardless of the presence of asbestos.
  - 2. For all projects that involve removal of regulated asbestos containing materials, the contractor shall complete the required asbestos removal forms and notify the authorities at least 10 working days in advance of the activity.
  - 3. For any operations required to obtain an Authority to Construct or Permit to Operate from the authorities, the contractor shall provide in advance to the Project Manager the information needed for the application. Authorities may take more than 40 working days to process the application and issue the Authority to Construct or Permit to Operate; the contractor shall include this time in his Schedule of Operations; OWNER will grant no extra cost under this contract for this wait period.

#### 1.21. ENVIRONMENT, SAFETY AND HEAITH (EHS)

- A. The owner can request additional safety or environmental protection measures at any time. If contractor does not follow safety or environmental protection requirements, the owner can hire a different contractor or self-perform to ensure compliance and charge the original contractor for the cost.
- B. Contractor shall provide all labor, materials, equipment, services and supervision required to maintain work sites that meet the environment, safety and health (ES&H) requirements of all applicable federal, state, and local regulations and protect the environment and the safety and health of its employees, the employees of its lower tier subcontractors, owner employees and the general public.
- C. The contractor shall provide a qualified onsite EHS Representative with the authority to enforce all of the safety requirements and implement the contractor's Injury and Illness Prevention Program and Hazard Abatement Plan. The contractor shall remove and replace its Health and Safety Representative at the request of the owner, if the Safety Representative is unsuccessful in enforcing the EHS requirements. The contractor's EHS representative shall conduct safety inspections of the project operations, materials, and equipment frequently throughout the day to ensure that all safety deficiencies are identified and corrected. The owner reserves the right to enforce measures if the contractor's onsite EHS representative does not enforce all requirements. Inspection findings and corrective actions taken shall be documented, and the record shall be kept on the construction work site and be made available to owner upon request. If safety deficiencies are found, owner will issue a Safety Deficiency Notice to the contractor. Upon receipt of a written Safety Deficiency Notice from the Owner, the contractor shall take appropriate action to correct the deficiency and discontinue the hazardous activity until the hazard is abated. Failure to correct or eliminate violation(s) within the period specified might result in the order to stop all or any part of the work. The contractor shall submit to the owner a written response to the Safety Deficiency Notice describing what corrective action it has taken, the date such corrective action was completed and actions that it will take to prevent future recurrence of the same incident.
- D. Provide protection for workmen, public, adjacent construction and occupants of existing building(s). Personal Protective Equipment (PPE) such as hard hats, ear plugs and dust masks, shall be provided to all employees and use shall be enforced by the onsite EHS Representative. PPE also shall be provided to site visitors near the main entrances to the jobsite. PPE shall be provided in sufficient numbers to outfit typical number of visitors (i.e. designers, inspectors, shipment workers)
- E. WORK SITE SAFETY ORIENTATION: Each employee shall receive initial EH&S orientation prior to performing any work on the project. The contractor shall maintain on the work site a detailed outline of the orientation and a signed and dated roster of all employees who have completed the project EHS indoctrination. Make documentation available to owner on request. The orientation shall, at a minimum, cover the following points:
  - 1. Employee rights and responsibilities.
  - 2. Construction contractor responsibilities.

- 3. Alcohol and drug abuse policy
- 4. Contractor's disciplinary procedures.
- 5. First aid and medical facilities.
- 6. Site and project specific hazards.
- 7. Hazard recognition and procedures for reporting or correcting unsafe conditions or practices.
- 8. Procedures for reporting accidents and incidents.
- 9. Fire fighting and other emergency procedures to include local warning and evacuation systems.
- 10. Hazard Communication Program.
- 11. Access to employee exposure monitoring data and medical records.
- 12. Protection of the environment, including air, water, and storm drains from construction pollutants.
- 13. Location of and access to reviewed project Illness and Injury Prevention Program, Hazard Analysis and Hazard Abatement Plan.
- 14. Location and contents of required postings
- F. A comprehensive EH&S program shall be established including but not be limited to:
  - 1. Confined Space Entry
  - 2. Site specific Emergency Response, First Aid, & Medical Services. Identify employees with CPR/First Aid certification available at the work site.
  - 3. Fire Protection and Prevention
  - 4. Hazard Communications
  - 5. Hazardous Waste Operations
  - 6. Hazardous Work Permits
  - 7. Toxic and Hazardous substances
  - 8. Inspection, Maintenance, and Certification of Heavy Equipment, Cranes, and Motor Vehicles
  - 9. Lock Out/Tag Out (LOTO) Subcontractors are required to include LOTO
  - 10. Personal Protective and Life Saving Equipment
  - 11. Radiation Protection
  - 12. Construction Safety Training
  - 13. Control of silica dust released during demolition or drilling of concrete or released from work with other materials that contain silica.
- G. A comprehensive activity hazard analysis and hazard abatement plan shall be established including but not be limited to:
  - 1. Description of work phase or activity
  - 2. Identification of potential hazards associated with the activity
  - 3. A list of the contractor's planned controls to mitigate the identified hazards
  - 4. Name of the contractor's employee responsible for inspecting the activity and ensuring that all proposed safety measures are followed
  - 5. Construction activities for which an Activity Hazard Analysis and Hazard Abatement Plan may be required include, but are not limited to:
  - 6. Roofing
  - 7. Hoisting and handling of materials
  - 8. Excavations
  - 9. Trenching and drilling
  - 10. Concrete placement and false work
  - 11.Welding
  - 12. Steel erection
  - 13. Work performed six feet or higher above ground
  - 14. Electrical work
  - 15. Demolition
  - 16. Work in confined spaces
  - 17. Work that causes the release of silica such as demolition or drilling of concrete or work with materials that contain silica.
  - 18. Work with epoxy coatings
  - 19. Work with or around hazardous materials
  - 20. Work on hilly terrain
  - 21. Use and handling of flammable materials
  - 22. The owner must favorably review the Activity Hazard analysis and Hazard Abatement Plan before work can start on that activity.

#### H. ELECTRICAL WORK:

- 1. Energized electrical work within panels and equipment is not allowed.
- 2. Workers shall be qualified to perform electrical tasks in accordance with OSHA 29 CFR 1910 and 1926 requirements.
- 3. Work practices must be compliant with NFPA 70E, newest edition Standard for Electrical Safety in the Workplace.
- I. Rubbish, debris and scrap shall not be thrown through any window or other opening, or dropped from any great height; it shall be conducted to the ground, to waiting truck(s) or removable container(s) by means of approved chutes or other means of controlled conveyance.
- J. Form and scrap lumber shall have all nails withdrawn or bent over; shall be neatly stacked, placed in trash bins, or removed from the premises.
- K. Take all necessary precautions while dismantling piping containing gas, gasoline, oil or other explosive or toxic fluids or gases. Purge lines and contain materials in accordance with all applicable regulations. Store such piping outdoors until fumes are removed. Verify that all gas and electrical utilities have been abandoned or disconnected and associated hazards mitigated, prior to beginning any demolition.
- L. All material classified by authorities to be a material that needs special treatment must be recycled, reused or disposed of by a special contractor that holds a valid license to work with such material. If hazardous materials are not anticipated, but encountered, terminate operations and contact owner immediately.
- M. CONTROL OF CRYSTALLINE SILICA DUST: The subcontractor shall provide all necessary control measures at the work site to keep worker exposure to crystalline silica dust within the OSHA Established Permissible Exposure Limits (PEL's). Dust control measures may require spraying of water or engineering controls at the dust generating points. It also may include the use of respirators, industrial grade HEPA vacuums, and HEPA filtered locally exhausted tools. Construction operations known to cause the release of silica dusts include, but are not limited to:
  - 1. Chipping, sawing, grinding, hammering, and drilling of concrete, rock, or brick.
  - 2. Work with cementitious materials such as grout, mortar, stucco, gunnite, etc.
  - 3. Dry sweeping of dust originating from concrete or rock
- N. CONSTRUCTION ACTIVITY POLLUTION PREVENTION:
  - 1. Follow Requirements in Storm Water Pollution Prevention Plan (SWPPP) and Erosion and Sedimentation Control (ESC) Plan
  - 2. Stabilize any relocated and moved soil with fast growing grasses and place mulch (hay, woodchips, straw) on it to cover and hold soil
  - 3. Divert surface runoff from distributed areas into sediment basin or sediment traps with a mound of stabilized soil
  - 4. Construct posts with filter fabric media to remove sediment from stormwater leaving the site.
- 5. Follow requirements in site development plan and don't disturb areas beyond the marked areas O. INDOOR AIR QUALITY:
  - 1. During construction the recommended control measures of the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) IAQ guidelines for occupied buildings under construction, (1995, chapter 3) must be met or exceeded.
  - 2. Stored on-site or installed absorptive material must be protected from moisture damage.
  - 3. In case permanently installed air handlers are used for ventilation, filtration media with a Minimum efficiency Reporting Value (MERV) of 8 shall be used at each return air grille, as determined by ASHRAE 52.2-1999. Contractor shall replace all filtration media immediately prior occupancy.
  - 4. All to be installed ductwork, air handlers and other equipment later connected to the indoor air path are to be protected from dirt and debris.
- P. FIRE PROTECTION AND PREVENTION:
  - 1. The contractor shall develop and maintain an effective fire protection and prevention program at the job site through all phases of demolition, alteration, repair, and construction work. Contractor shall ensure the accessibility and availability of fire protection and suppression equipment.
  - 2. Smoking is be prohibited everywhere on the job site no exceptions. Signs shall be posted. In visible locations.
  - 3. No burning of rubbish or debris will be allowed at the site. Combustible waste shall be removed immediately or stored in fire resistive containers until disposed of in an approved manner.

4. The Contractor shall provide and maintain in working order during the entire construction period, a minimum of three (3) fire extinguishers on each floor level, including basement of the building, and one (1) in temporary office. Extinguishers shall be nonfreezing type such as A-B-C rated dry chemical, of not less than 10-pound capacity each. In addition, any subcontractor who maintains an enclosed shed on the site shall provide and maintain, in an accessible location, one or more similar nonfreezing type fire extinguisher in each enclosed shed.

#### Q. ACCIDENTS AND SPILLS:

- The contractor shall immediately notify the owner of any accidents, injuries or occupational illnesses that occur on the project, regardless of the employer of the involved personnel or the owner of the involved materials or equipment. For OSHA recordable injuries, the subcontractor shall also furnish a copy of the OSHA Form 301(or equivalent) to the Project Representative within five days of the injury.
- 2. In the event a job site accident occurs, the contractor shall immediately implement controls and restrictions on the accident site to ensure the site remains undisturbed until released in writing by the owner to resume work. The contractor shall provide accident investigation follow-up and shall support Owner's accident Investigation and reporting protocol.
- 3. The contractor shall promptly report to owner any spill, deposit, leak, drainage, debris, residue, spoil, residual, and/or by-product, whether its presence at the jobsite is occasioned by accident, inadvertence, intent, discarding, or abandonment by the Subcontractor or its lower tier subcontractors. This reporting requirement applies to petroleum products, oil, lubricants, chemical substances, waste materials, and waste substances, which are in such quantities as to constitute a hazardous substance or hazardous waste. All such occurrences of any quantity involving paints, solvents, thinners, degreasers, PCBs, halogenated hydrocarbons, volatile organic compounds, and/or asbestos shall be deemed a reportable event. These identification and reporting requirements shall be the responsibility of the contractor for both its own work forces as well as for any sub tier contractor, material man or supplier performing work on site for the contractor, material man, or supplier presence at the jobsite, shall be at the contractor's sole expense.

#### R. WASTE MANAGEMENT:

- 1. Recycle all recyclable material. This includes any material for which there is a recycling facility in Wisconsin.
- 2. Separate all waste material in plastic, metal, paper, acoustical tile, brick, concrete, clean wood, glass, gypsum drywall, carpet and insulation and provide designated on-site collection areas.
- 3. Keep track of volume and weight of each material and track if it was recycled, reused, donated or disposed otherwise.
- 4. It is permissible to separate waste off-site by specialized recycling contractor. This contractor needs to be provide proof of recycling and needs to be WASTECAP certified as "Accredited Professional in Construction and Demolition Debris Recycling".
- 5. Prior to demolition or construction activities, the General Contractor, with input of all contractors and their subcontractors, shall develop and submit a Waste Management Plan to owner. Priority is given to reuse, followed by recycling followed by disposal including proper land filling or incineration. Disposal only will be acceptable if other methods are not commercially available. The Waste Management Plan includes but is not limited to the following:
  - a. A list of each material proposed to be salvaged, reused, or recycled, Materials to be included, at a minimum, are the following:
    - i. Concrete: Clean concrete, concrete with rebar, asphalt concrete.
    - ii. Metals: Steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass or bronze, including banding, ductwork, framing, roofing and siding, flashing, piping and rebar.
    - iii. Clean Fill: Earth, rocks, and gravel.
    - iv. Wood: Clean dimensional wood, wood pallets, engineered wood products including plywood, particleboard, I joist.
    - v. Biodegradable landscaping materials.
    - vi. Cardboard, paper, packaging.
    - vii. Masonry: Brick, ceramic tile, CMU.
    - viii. Roofing: Clay or concrete tiles, asphalt shingles.
    - ix. Gypsum board.

- x. Acoustic ceiling panels.
- xi. Carpet and pad.
- xii. Paint.
- xiii. Insulation.
- xiv. Plastics: ABS, PVC
- xv. Beverage containers
- xvi. Cardboard.
- xvii. Concrete
- xviii. Brick and concrete masonry units (CMU).
- xix. Metals from banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
- xx. Gypsum wallboard.
- xxi. Clean dimensional wood
- xxii. Wood doors
- xxiii. Acoustical ceiling tiles/panels
- xxiv. Glass
- b. Separation and Materials Handling Procedures: How waste materials (as identified above), will be separated, cleaned (if necessary) and protected from contamination.
- c. Waste Material Estimating Sheet (Appendix A at the end of this Section)
- d. Proposed Alternatives to Land filling: List each material planned to be salvaged or recycled, quantities, and proposed destination.
- 6. The contractor shall provide separation, bins for temporary onsite storage, handling, transportation, recycling, salvage, and land filling for all demolition and waste materials and keep recycling and waste bins areas neat, clean and clearly marked in order to avoid contamination or mixing materials and maintain logs onsite for each load of materials removed from site.
- 7. During the progress of the work, the General Contractor shall report to owner the quantity of each material recycled, reused, or salvaged, and the receiving party. All contractors shall maintain a record of weight tickets, manifests, receipts, and invoices for review by owner on request.
- 8. At the completion of the project the General Contractor shall submit a final summary of the progress reports, including the percentage of recycled waste (weight or volume) to the quantity of waste that would have been otherwise land filled.
- 9. Contractor is to provide the following documents upon request for payment:
  - a. Waste Materials Estimating Sheet (Appendix A at the end of this Section)
  - b. Landfill Log (Appendix B at the end of this Section)
  - c. Waste Diversion Log (Appendix C at the end of this Section)
  - d. Legible copies of manifests, weight tickets, and receipts. Manifests shall be from recycling and/or disposal site operators that can legally accept the materials for the purpose of reuse, recycling or disposal. These documents shall include the contract number and the job site name.
- 10. Examples of documents include, but are not limited to:
  - a. Cover sheet for hazardous materials recycling contract
  - b. Vendor "Pickup Request"
  - c. Vendor "Certificate of Recycling and/or Disposal"
  - d. Vendor invoice
  - e. Maintain at the Project site Landfill Logs and Waste Diversion Logs for each load of materials removed from site.
  - f. Discuss Waste management plans and implementation during all construction-related meetings.
  - g. Immediately Inform the owner if hazardous materials are encountered or suspected, and stop work in the suspect area. Do not proceed with work in the suspect area until approved by the owner.
- 11. The following resources are provided for information only, to aid the Contractor in managing the construction waste:
  - a. The Wisconsin DNR, Bureau of Waste Management http://www.dnr.state.wi.us/org/aw/wm/

- b. The UW-Extension's Solid and Hazardous Waste Education Center http://www1.uwex.edu/ces/shwec/
- c. WasteCap Wisconsin, Inc. <u>http://www.wastecapwi.org</u> or telephone: 414-961-1100 or 608-245-1100
- 12. The contractor shall provide summaries of type and amount of material recycled, reused or disposed of. Those summaries shall include enough information and detail to satisfy requirements by external auditors. At a minimum the documentation needs to meet the current LEED requirements and requirements set by the EPA and federal government for federally funded projects. These requirements may or may not be mentioned specifically in this contract and the contractor is required to learn about specifics and to add documentation as required by such third party auditors.

#### 1.22. STAIRS, SCAFFOLDS, HOISTS, ELEVATORS OR CRANES

- A. The Contractor shall furnish and maintain equipment such as temporary stairs, fixed ladders, ramps, chutes, runways and the like as required for proper execution of work by all trades, and shall remove them on completion of the work. The Contractor shall erect permanent stair framing as soon as possible. Provide stairs with temporary treads, handrails, and shaft protection. Contractors requiring scaffolds shall make arrangements with the Contractor, or shall provide their own and remove them on completion of the work. The Contractor shall underlay its interior scaffolds with planking to prevent uprights from resting directly on the floor construction.
- B. Contractor shall provide and pay for its own hoist/crane or other apparatus necessary for unloading/setting or moving their equipment and materials. Installation and removal of equipment for this activity must be accounted for in the Project Schedule. Equipment and operations for this activity shall comply with applicable Department of Commerce and OSHA requirements. No material hoist may be used to transport personnel unless it meets Department of Commerce and OSHA requirements for that purpose.
- C. Existing elevators may be used on a limited basis with the owner's permission and agreement. The Contractor will pay costs of warranty extensions and additional service work required. Appropriate protection must be provided by the using Contractor and that Contractor shall be responsible for any structural, mechanical or finish damage to the elevator and its parts and to adjoining building finishes and components.

#### 1.23. SAFEGUARDS - EXISTING EQUIPMENT, UNDERGROUND UTILITIES AND ARTIFACTS

- A. Existing utilities, including those listed as abandoned, shall not be moved or otherwise disturbed without written verification by the owner that the utility is abandoned.
- B. When altering existing facilities, the Contractor shall take every precaution to preserve and protect existing facilities, both those to be altered and those to remain unaltered that are within the limits of the work.
- C. The Contractor shall notify the owner of structural members, piping, conduit, or equipment not indicated for removal that may cause interference with the work. Work shall not proceed in the affected area until instructions have been issued. Do not drill or penetrate existing structures without prior permission. The removal of existing work shall be by methods that will not jeopardize the integrity of structures or systems that are to remain.
- D. Existing utilities, including but not limited to roof drainage systems, underground cables, ducts, roadways, manholes, building fire alarm, public address or telecommunications wiring shall not be moved or otherwise disturbed, nor electrical circuits or switches operated or taken in or out of service, without prior consent of the owner. Contractor shall compensate loss to the owner resulting from damage to utilities, facilities and other owner or public items damaged.
- E. Take measures necessary to safeguard all existing work and facilities that are inside and outside the limits of the work or items that are within the construction limits but are intended to remain. Report any damage to the owner immediately. Correct and pay for all damages.
- F. If bones or artifacts are encountered during digging, the owner requires that the Contractor stop work within a 50-foot radius of the find and immediately notify the owner. Work may continue only with approval from the owner.

#### 1.24. OPERATION AND MAINTENANCE DATA

- A. All OM documents are to be submitted as electronic copy for review at the time the respective equipment is delivered. No hardcopy shall be provided until the OM manuals are approved.
- B. Submit data bound in 8-1/2 x 11 inch (A4) text pages, Use three D side rings if necessary and binders with durable plastic covers. Submit all documents in electronic form as well as in hardcopy. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project and subject matter of binder when multiple binders are required.
- C. Internally subdivide the binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
- D. Contents: Prepare a Table of Contents for each volume, with each Product or system description identified, typed on 20-pound white paper, in three parts as follows:
- E. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, subcontractors, and major equipment suppliers.
- F. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers. Identify the following:
  - 1. Summary list of maintenance items indicating frequency and type of maintenance required for all systems covered in this contract.
  - 2. List of equipment (including assigned equipment numbers).
  - 3. A description of recommended replacement parts and materials, which the owner should stock.
  - 4. Parts list for each component.
  - 5. A summary of equipment vendors, or location where replacement parts can be purchased.
  - 6. List indicating types and grades of oil and/or grease, packing materials, normal and abnormal tolerances for devices, and method of equipment adjustment.
  - 7. Copies of all approved submittals.
  - 8. Operating instructions.
  - 9. Maintenance instructions for equipment and systems, Preventive maintenance recommendations.
  - 10. Maintenance instructions for finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
  - 11. Manufacturer's wiring diagrams for electrically powered equipment.
  - 12. A complete set of record control drawings.
    - a. Copies of all checkout tests and calibrations performed by the Contractor (not commissioning tests).
    - b. The manual shall be organized and subdivided with permanently labeled tabs for each of the following data in the given order:
      - i. Sequences of operation including points and schematics of operations
      - ii. Control drawings
      - iii. Points lists
      - iv. Controller / module data
      - v. Maintenance instructions, including sensor calibration requirements and methods by sensor type
      - vi. Thermostats and timers
      - vii. Sensors and DP switches
      - viii. Valves and valve actuators
      - ix. Dampers and damper actuators
      - x. Program setups (software program printouts)
  - 13. Additional information as indicated in the technical specification sections
- G. Part 3: Project documents and certificates, including the following:
  - 1. Product data.
  - 2. Air and water balance reports.
  - 3. Certificates.
  - 4. Photocopies of warranties.
  - 5. Name, address, and telephone number of the person or office to contact for service during the warranty period.
  - 6. Name, address, and telephone number of the person or service organization to be contacted for service after the warranty period.

- H. Submit all O&M manuals in original electronic form (PDF). Scanned copies are not acceptable. PDF need to be of high quality and searchable.
- Submit 1 draft copy of completed volumes 15 [fifteen] days after approval of applicable submittal or receipt of the product. Revise content of all document sets as required prior to final submission. Submit 2 [two] sets of revised final volumes, within 10 [ten] days after final inspection.

#### 1.25. ACCESS PANELS AND DOORS

- A. All serviceable and replaceable devices, including but not limited to valves, boxes, and dampers shall receive an access at a location and in a size that enables proper servicing and repair of the device without removal of other material. Sizes described are minimum sizes and might be increased if the type and size of device requires it. Install all piping, conduit, ductwork, and accessories to permit access to equipment for maintenance. Coordinate the exact location of wall and ceiling access panels and doors with the owner making sure that access is available for all equipment and specialties. Relocate access panel or door if equipment is not properly accessible to perform all maintenance and repair at no cost to the owner. Minimum size is 12" by 12". Use "Cendrex" products or approved equal.
- B. LAY-IN CEILINGS: if 2 X 2 foot is not sufficient for access (i.e. VAV boxes require larger access), the grid shall be arranged in a manner to allow easy removal of grid sections.

#### 1.26. LOOSE AND DETACHABLE PARTS

- A. Contractor shall retain all loose and small detachable parts of apparatus and equipment furnished under this Contract, until completion of the work and shall turn them over to the owner to receive them.
- B. Furnish one can of touch-up paint for each different color factory finish furnished by the Contractor. Deliver touch-up paint with other "loose and detachable parts".

#### PART 2 – PRODUCTS

#### 2.1. SPECIFIED ITEMS - SUBSTITUTES

- A. Wherever catalog numbers and specific or trade names are used in conjunction with a designated material, product, item, or service mentioned in these Specifications, they are used to establish the standards of quality, utility, and appearance required. Substitutions will be approved, subject to the following provisions:
  - a. Contractors or manufacturers may request listing of their product in the bid documents up to 10 calendar days prior bid due date. All requests must be accompanied by sufficient information to judge its suitability for this project.
  - b. Owner may reject any substitute request without providing specific reasons.
  - c. Owner may accept substitution requests after contract award, but reserves the right to refuse review or acceptance of any requests without providing specific reasons.
  - d. All Substitutions must be accepted by the owner in writing. The owner will accept, in writing, such proposed substitutions as are in his or her opinion, equal in quality, utility, and appearance to the items or materials specified. Such acceptance shall not relieve the Contractor from complying with the requirements of the drawings and specifications, and the Contractor shall be responsible at Contractor's own expense for any changes resulting from Contractor proposed substitutions which affect the other parts of Contractor's own work or the work of others.
  - e. The manufacturer shall be a company specializing in the manufacture of the specified equipment and accessories with minimum five years documented experience.
  - f. Failure of the Contractor to submit proposed substitutions for approval in the manner described above and within the time prescribed shall be sufficient cause for disapproval by owner of any substitutions otherwise proposed.
- B. Specifications may mention other manufacturers than the specific device specified. Those are manufacturers that in general are acceptable, but may not have a product for this specific project. Those manufacturers still may be rejected without providing specific reasons. The bidder only can rely on using items specifically mentioned in the contract documents.

#### 2.2. APPROVED TESTING LABORATORIES

- A. The following laboratories are approved for providing electrical product safety testing and listing services as required in these specifications:
  - 1. Underwriters Laboratories Inc.
  - 2. Electrical Testing Laboratories, Inc.

#### 2.3. HAZARDOUS SUBSTANCES

- A. The Subcontractor shall submit to the Project Representative, for review by the EH&S Division, any proposed procurement, stocking, installing, or other use of materials containing asbestos, cadmium, chromates, or lead.
- B. All materials and applications shall comply with requirements of any and all Districts Regulations, including, but not limited to architectural coatings, general solvent and surface coatings, solvent cleaning operations, adhesive and sealants, visible emissions, and asbestos.
- C. Contractor shall keep and maintain proof of compliance with the above-referenced regulations, including any recordkeeping obligations, for a period of two years after completion of the project. Contractor shall make such documents or evidence available if so requested by owner.
- D. No materials outlawed in any of the 50 US states are to be used. Only equipment and material legal in all 50 states is to be used. All Federal, state, county and local codes and ordinances regarding are to be considered deciding if a piece of equipment or material is to be used.
- E. The contractor assumes responsibility for proper removal, collection and storage of hazardous substances on site and disposal of those if hazardous substances were known to be present and pointed out in these specifications or on the plans. If hazardous substances are not known to be present and are found, the owner assumes responsibility for additional cost due to removal, collection and storage on site. All hazardous substances are to be disposed in accordance with all federal, state and local laws, codes and regulations. It is the contractor's responsibility to recognize typical hazardous substances not known to be present. This includes all substances that were used in buildings of that type in the period since original construction.
- F. Contractor will assume that all electronic components, machinery, refrigeration devices and other common devices contain hazardous substances and include disposal of such in bid price, even if those substances are not mentioned separately. If special tests are necessary the owner assumes responsibility for such.
- G. ASBESTOS:
  - 1. Contractor's attention is directed to WAC NR 447, WAC HSS 159 and the Occupational Safety and Health Act (OSHA) in general, part 1926.1101--ASBESTOS in particular. Contractor is responsible for compliance with all applicable regulations when the work includes fastening to or coring through Asbestos Containing Materials (ACM) and disturbance of asbestos containing caulking and mastics. Unless otherwise indicated, all caulking, sealants, glazing compounds, gaskets, asphalt roofing materials and miscellaneous adhesives are assumed to contain asbestos and are considered to be Category I non-friable ACM as defined in NR 447. Waste material containing Category I non-friable ACM, is regulated as Construction and Demolition (C&D) waste and may be disposed of at a Department of Natural Resources (DNR) approved C&D waste landfill. If Contractor's work methods cause non-friable ACM to become friable, the Contractor is responsible for the disposal of the friable asbestos waste at a landfill specifically approved by DNR to accept friable asbestos. A copy of the signed waste manifest for the disposal of all friable asbestos waste shall be provided to owner prior to request for final payment.
  - 2. The regulations referenced above require removal of friable ACM and Category II non-friable ACM prior to <u>demolition</u> of a building. Category I non-friable ACM does not need to be removed from a building prior to demolition if the waste generated from the demolition is taken to a DNR approved C & D waste landfill. If the contractor chooses to recycle building materials from a building to be demolished, the contractor is responsible for removal and disposal of all Category I non-friable ACM in accordance with applicable regulations prior to demolition. If the contractor's demolition methods will cause non-friable ACM to become friable, the contractor is responsible for removal and disposal of all Category I non-friable ACM in accordance with applicable regulations prior to demolition.
  - 3. The asbestos abatement contractor will require sole occupancy of the workspace during asbestos abatement work. Contractor shall communicate with the asbestos abatement contractor and make adequate allowance for the asbestos abatement work in the work schedule

- H. LEAD BASED PAINT: Conform with OSHA and EPA recommended worker safety requirements when removing lead based paint or material bearing lead based paint or material contaminated with lead by the demolition process. Contractor's attention is directed to the Occupational Safety and Health Act (OSHA) in general and particularly to 29 CFR 1910 (LEAD STANDARD) and to CFR 1926 (LEAD EXPOSURE IN THE CONSTRUCTION INDUSTRY). For OSHA compliance and regulation interpretations, contractors may contact the area OSHA office for this project. [Milwaukee, telephone (414) 297-3315; Appleton, telephone (414) 734-4521; Eau Claire, telephone (715) 832-9019]. Dispose of refuse containing lead based paint or contaminated with lead by the demolition process in conformance with State of Wisconsin Hazardous Waste Regulations set forth by the Department of Natural Resources and in conformance with OSHA and EPA recommended worker safety requirements.
- I. PCB'S: Contractor shall assume all ballasts and transfomers not specificallylabelled as "no PCB" type to contain PCB and to dispose properly meeting all regulatory requirements
- J. MERCURY-CONTAINING DEVICES: Mercury containing devices are accumulated in our facilities for eventual recycling through a contracted vendor. These devices include certain building controls and switches, thermometers, and lamps. Lamps are stored in accordance with Environmental Protection Agency universal waste regulation 40 CFR part 273 including storing them in containers with labels describing the contents and the start date of accumulation.
- K. PAINT AND RELATED PRODUCTS: The oil-based paints are disposed of as hazardous waste
- L. USED APPLIANCES AND BUILDING EQUIPMENT: Used appliances include microwaves, refrigerators, and ice machines. Smaller pieces of building equipment include items such as water heaters and variable-drive motors. All of these items are recycled by a contracted vendor at eh contractor's expense.

#### M. VOC: Volatile Organic Compounds in materials shall be limited to these maximum values:

- 1. Adhesives and Sealants:
- 2. Wood Glues: 30 g/L.
- 3. Metal-to-Metal Adhesives: 30 g/L.
- 4. Adhesives for Porous Materials (Except Wood): 50 g/L.
- 5. Subfloor Adhesives: 50 g/L.
- 6. Plastic Foam Adhesives: 50 g/L.
- 7. Carpet Adhesives: 50 g/L.
- 8. Carpet Pad Adhesives: 50 g/L.
- 9. VCT and Asphalt Tile Adhesives: 50 g/L.
- 10.Cove Base Adhesives: 50 g/L.
- 11.Gypsum Board and Panel Adhesives: 50 g/L.
- 12. Rubber Floor Adhesives: 60 g/L.
- 13. Ceramic Tile Adhesives: 65 g/L.
- 14. Multipurpose Construction Adhesives: 70 g/L.
- 15. Fiberglass Adhesives: 80 g/L.
- 16. Contact Adhesive: 80 g/L.
- 17. Structural Glazing Adhesives: 100 g/L.
- 18. Wood Flooring Adhesive: 100 g/L.
- 19. Structural Wood Member Adhesive: 140 g/L.
- 20. Single-Ply Roof Membrane Adhesive: 250 g/L.
- 21. Special Purpose Contact Adhesive (contact adhesive that is used to bond melamine covered board, metal, unsupported vinyl, rubber, or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
- 22. Top and Trim Adhesive: 250 g/L.
- 23. Plastic Cement Welding Compounds: 250 g/L.
- 24.ABS Welding Compounds: 325 g/L.
- 25. CPVC Welding Compounds: 490 g/L.
- 26. PVC Welding Compounds: 510 g/L.
- 27.Adhesive Primer for Plastic: 550 g/L.
- 28. Sheet Applied Rubber Lining Adhesive: 850 g/L.
- 29. Aerosol Adhesive, General Purpose Mist Spray: 65 percent by weight.
- 30. Aerosol Adhesive, General Purpose Web Spray: 55 percent by weight.
- 31. Special Purpose Aerosol Adhesive (All Types): 70 percent by weight.

32. Other Adhesives: 250 a/L.

33. Architectural Sealants: 250 g/L.

34. Non-membrane Roof Sealants: 300 g/L.

35. Single-Ply Roof Membrane Sealants: 450 g/L.

36. Other Sealants: 420 g/L.

37. Sealant Primers for Nonporous Substrates: 250 a/L.

38. Sealant Primers for Porous Substrates: 775 g/L.

39. Modified Bituminous Sealant Primers: 500 a/L.

40. Other Sealant Primers: 750 g/L.

41.Inside Paints and Coatings:

42. Flat Paints, Coatings, and Primers: VOC not more than 50 g/L.

43. Nonflat Paints and Coatings: VOC not more than 150 g/L.

44. Dry-Fog Coatings: VOC not more than 400 g/L.

45. Primers, Sealers, and Undercoaters: VOC not more than 200 a/L.

46.Anticorrosive and Antirust Paints applied to Ferrous Metals: VOC not more than 250 g/L.

47 Zinc-Rich Industrial Maintenance Primers: VOC not more than 340 g/L.

48. Pretreatment Wash Primers: VOC not more than 420 g/L.

49. Clear Wood Finishes, Varnishes: VOC not 1 more than 350 g/L.

50. Clear Wood Finishes, Lacquers: VOC not more than 550 g/L.

51. Floor Coatings: VOC not more than 100 g/L.

52. Shellacs, Clear: VOC not more than 730 g/L.

53. Shellacs, Pigmented: VOC not more than 550 g/L.

54 Stains: VOC not more than 250 g/L.

#### 2.4. BARRICADES, SIGNS, WARNING DEVICES, AND TEMPORARY PLASTIC BARRIERS

- A. Traffic barricades, traffic signs, and warning devices shall meet the requirements of applicable OSHA standards and the FHA Manual of Uniform Traffic Control Devices (MUTCD).
- B. UV stabilized high-density polyethylene barrier fence free of holes tears and other defects. Provide 4' tall fence in diamond or rectangular pattern. Fencing shall be "safety orange" color, unless otherwise noted.
- C. Posts for temporary plastic barrier fencing shall be 5' tall, minimum 12 gauge, painted metal posts.

#### 2.5. SEALING AND FIRESTOPPING

- A. Manufacturers: 3M, Hilti, Rectorseal, STI/SpecSeal, Tremco, or approved equal.
- B. All firestopping systems shall be provided by the same manufacturer and shall be UL listed.
- C. Submittals: Contractor shall submit product data for each firestop system. Submittals shall include product characteristics, performance and limitation criteria, test data, MSDS sheets, installation details and procedures for each method of installation applicable to this project. For non-standard conditions where no UL tested system exists, submit manufacturer's drawings for UL system with known performance for which an engineering judgement can be based upon. D. Use a product that has a rating not less than the rating of the wall or floor being penetrated.
- E. Contractor shall use firestop putty, caulk sealant, intumescent wrapstrips, intumescent firestop collars, firestop blocks, firestop mortar or a combination of these products to provide a UL listed system for each application required for this project. Provide mineral wool backing where specified in manufacturer's application detail.
- F. Where shown or specified, pack annular space with fiberglass batt insulation or mineral wool insulation. Provide 4" sheet metal escutcheon around duct on both sides of partition or floor to cover annular space.
- G. Install approved product in accordance with the manufacturer's instructions where an installation penetrates a fire/smoke rated surface. When pipe is insulated, use a product, which maintains the integrity of the insulation and vapor barrier.
- H. Whenever possible, avoid penetrations of fire and smoke rated partitions. When they cannot be avoided, verify that sufficient space is available for the penetration to be effectively fire and smoke stopped.

#### PART 3 - EXECUTION

#### **3.1. PROJECT MEETINGS**

A. Project meetings will be held at the time designated by the owner. If the principal of the firm does not attend meetings, a responsible representative of the Contractor who can bind the Contractor to a decision at the meetings shall attend. The contractor will write a report covering all items discussed and decisions reached and copy of such report distributed to all parties involved within 3 business days. All contractors, sub-contractors and other related parties shall attend. Attendance especially is required if such contractor is scheduled to perform work within the next 6 weeks.

- B. PRE-CONSTRUCTION MEETING: Owner, design representatives and all contractor and subcontractor representatives attend.
- C. PRE-INSTALLATION MEETING: prior installation, layout or other activities related to major systems, separate meetings will be held to ensure proper coordination. These meetings will be initiated by the contractor. Not initiating these meetings doesn't relieve the contractor from coordination responsibilities. The owner may set up such meetings as needed

#### 3.2. CONTINUITY OF SERVICE, TRAFFIC, SHUTDOWN AND ACCESS

- A. BUILDING ACCESS: Unless otherwise shown or directed, maintain existing access and egress to the facility throughout construction. Maintain ANSI A117 compliant access for disabled persons, delivery access, emergency vehicle access, and emergency egress. Do not interrupt access and egress without prior written approval by owner.
- B. Contractor shall verify the locations of any water, drainage, gas, sewer, electric, drainage, gas, sewer, electric, telephone/communication, fuel, steam lines or other utilities and site features which may be encountered in any excavations or other sitework. All lines shall be properly underpinned and supported to avoid disruption of service.
- C. TRAFFIC:
  - a. Do not interrupt or change existing traffic, delivery, or parking without prior written approval from owner. When interruption is required, coordinate schedule with the Owner agency to minimize disruptions. When working in public right-of-way, obtain all necessary approvals and permits from applicable municipalities and WISDOT.
  - b. When Contractor's activities impede or obstruct traffic flow, Contractor shall provide traffic control devices, signs and flaggers in accordance with other Contract Documents and the current version of the MUTCD, or as shown on the Drawings.
- D. UTILITIES:
  - a. Verify the locations of any water, drainage, gas, sewer, electric, drainage, gas, sewer, electric, telephone/communication, fuel, steam lines or other utilities and site features which may be encountered in any excavations or other sitework. All lines shall be properly underpinned and supported to avoid disruption of service.
  - b. Do not interrupt or change existing utilities without prior written approval from owner, affected utilities and users. Notify all users impacted by outages a minimum of 48 hours in advance of outage. Notification shall be provided in writing and describe the nature and duration of outages and provide the name and number of Contractor's foreman or other contact.
- E. Contractor shall provide and maintain continuous service (power, controls, alarms, communication, elevators, HVAC, roads etc.) during the entire construction period. No outages shall be permitted on existing systems except at the time and during the interval specified by the onwer. Any outage must be scheduled when the interruption causes the least interference with normal institutional schedules and business routines and might be scheduled during after-hours if regular business hours are not acceptable to the onwer. No extra costs will be paid to the Contractor for such outages, which must occur outside of regular weekly working hours. Cost to the utility is paid by Contractor. The Contractor shall provide temporary utility services and bypasses for any disruptions not completed within this period. The Contractor shall restore any circuit interrupted as a result of this work to proper operation as soon as possible.
- F. HVAC: If the building is occupied and continues operation during construction, retrofit or demolition, Contractor must maintain ventilation and air conditioning for as large parts of the building as technically feasible. Where maintaining space conditioning is not feasible with the existing system, the Contractor shall provide temporary sufficient air conditioning, heating and ventilation in coordination with the owner. Heating to prevent freeze damage is required for all construction activity regardless of occupancy. All work affecting air conditioning and ventilation must be coordinated with and approved by the owner. If air conditioning, heating and ventilation has to be taken out of service for longer periods of time in parts of the building and owner would be affected negatively. All such taking out of service has to be coordinated and approved by the owner.

#### G. SHUTDOWN:

- a. If the shutdown involves the interface with, or modification of, existing building energy system(s), the Contractor shall be required to show the reviewed submittal and shop drawings of the proposed modifications. Shutdown schedules shall have been reviewed and approved by the owner at least 72 hours prior to date of shutdown. Postponement of scheduled shutdowns by the owner shall not constitute a basis for additional charges to the owner.
- b. Prior to the shutdown of any building energy system(s) the Contractor shall provide the following:
- c. Proof of receipt of all materials required for the shutdown or a written commitment from the responsible suppliers that the required materials will be available at the time of the shutdown.
- d. A list of the qualified Contractor personnel assigned to perform the work.
- e. Analysis of any affect on the utility or building energy system(s) and the estimated duration of the shutdown.
- f. A twenty-four-hour emergency callback phone number to be used by the owner in the event of any problems or concerns with the modifications made to the building system(s) after the Contractor has left the site.

#### 3.3. DEMOLITION

- A. Perform all demolition as indicated on the drawings to accomplish new work. Demolition Drawings are based on casual field observation and/or existing record documents. Verify field measurements and circuiting arrangements as shown on Drawings, verify that abandoned wiring, piping, ducting and equipment serve only abandoned facilities. Report discrepancies to the owner before disturbing existing installation. Beginning of demolition means installer accepts existing conditions.
- B. Demolition all abandoned services and devices in areas affected by this contract, even if not shown on plans. This includes but is not limited to wiring, conduits, piping, and equipment.
- C. Before demolition of any load bearing concrete a ground-penetrating radar or concrete X-ray scan needs to be performed to detect any rebar, conduit or other damageable items. This work shall be performed at least a week before demolition starts to give A/E the opportunity to resolve any issues by rebar or other obstacles in unexpected locations. Drawings with existing subsurface obstacles may not be correct and shall not be relied on.
- D. Where pipe or duct is removed and not reconnected with new work, cap ends of existing services as if they were new work. Coordinate work with owner to minimize disruption to the existing building occupants.
- E. All pipe, wiring and associated conduit, insulation, ductwork, and similar items demolished, abandoned, or deactivated are to be removed from the site by the Contractor. Maintain the condition of material and/or equipment that is indicated to be reused equal to that existing before work began.
- F. Patch holes and openings caused by removal of material and equipment, or formerly covered by such, with like material and texture of surrounding surface. Paint to match surroundings.
- G. Disconnect all services in a manner which allows for future connection to that service. Disconnect services to equipment at unions, flanges, valves, or fittings wherever possible.
- H. Approval of all Jurisdictions Having Authority shall be obtained prior to disposal of any equipment and materials. All disposal has to be in compliance with all local, county, state and nationwide regulations.
- 1. All disconnected wiring shall be removed from all raceway systems, panels, enclosures pull boxes, junction boxes etc. irrespective of whether the removal is specified in the construction documents or not. The empty raceway systems shall be tagged spare on both ends of each termination.
- J. Don't demolition or damage equipment and material that is to stay in place. Replace and repair any equipment and installations that get damaged during demolition. The Contractor shall restore all disturbed areas in accordance with the drawings and specifications. If plans and specifications do not address restoration of specific areas, these areas will be restored to pre-construction conditions as approved by owner.
- K. Verify the locations of, and protect, any buildings, structures, utilities, paved surfaces, signs, streetlights, utilities, landscaping and all other such facilities that are intended to remain or be salvaged. Make such explorations and probes as necessary to ascertain any required protection measures that shall be used before proceeding with demolition.
- L. Provide and maintain adequate catch platforms, warning lights, barricades, guards, weather protection, dust protection, fences, planking, bracing, shoring, piling, signs, and other items required for proper protection.
- M. Report damage of any facilities or items scheduled for salvaging to owner.

- N. Explosives shall not be used for demolition.
- O. Remove all equipment, fixtures and other materials scheduled for salvage prior to beginning demolition operations.
- P. Abandon gas, electric and communication utilities in accordance with local utility company requirements, or applicable substantive requirements if considered private.
- Q. Carry out vehicle loading as necessary within the project boundaries or as defined or indicated on the drawings, but not in locations that block vehicular traffic on the streets or pedestrian traffic on adjacent public walks.
- R. Dismantle each structure in an orderly manner to provide complete stability of the structure at all times. Provide bracing and shoring where necessary to avoid premature collapse of structure.
- S. Conduct demolition operations and the removal of rubbish and debris in such a way that a minimum of nuisance dust is caused. Constantly sprinkle rubbish and debris with water if necessary to keep nuisance dust to a minimum.
- T. Where necessary to prevent collapse of any construction, install temporary shores, underpinning, struts or bracing. Do not commence demolition work until all temporary construction is complete.
- U. During the execution of the work, provide, operate, and maintain all pumping equipment, suction and discharge lines in a number of capacity as required to keep all cellars and pits free of water from any source whatsoever at all times.
- V. Masonry and concrete shall be demolished in small sections. Use braces and shores as necessary to support the structure of the building or structure and protect it from damage. Where limits of demolition are exposed in the finished work, cutting shall be made with saws, providing an absolutely straight line, plumb, true and square.
- W. Operate equipment so as to cause a minimum of damage to plaster which is to remain, and so as to keep dust and dirt to a minimum.
- X. BUILDING DEMOLITION:
  - 1. Proceed with demolition in a systematic manner, from top of structure to ground. Complete demolition work above each floor or tier before disturbing supporting members on lower levels.
  - 2. Neatly saw or cut joints at the limits of removal; whenever possible, locate cuts at existing joints.
  - 3. Cut existing plaster with power saws equipped with plaster cutting blades and dust collection system.
  - 4. Patch or repair any damaged surfaces or structural members at the limits of removal.
  - 5. Remove structural framing members and lower to ground by hoists, derricks or other suitable means.
  - 6. Remove all existing flooring in accordance with plans. Leave exposed existing sub flooring or surface in suitable condition for receiving new finished flooring.
  - 7. Locate demolition equipment and remove structure so as to not impose excessive loads to supporting walls, floors or framing.
- 8. Break up and remove concrete slabs-on-grade, unless otherwise shown to remain.
- Y. DEMOLITION BELOW GRADE:
  - 1. Not applicable.
- Z. DRAIN TILE:
  - 1. Not applicable.

#### 3.4. TEMPORARY CONSTRUCTION

- A. Temporary construction shall conform to all requirements and laws of state and local authorities, which pertain to operation, safety, and fire hazards. Contractor shall furnish and install all items necessary for conformance with such requirements, whether called for under separate sections of these Specifications or not. Contractor shall provide, maintain, and remove upon completion of his work:
- B. Employ temporary crossovers and bypass to utilities, electrical connections, traffic and footbridges, and walkways used to maintain services or communications, which cannot be interrupted or curtailed.
- C. Provide temporary rigging, scaffolding, shoring, hoisting equipment, and all other temporary work as required for this project.
- D. TEMPORARY LIGHTING: shall be supplied and maintained by the Contractor so that construction work can be safely performed. The temporary lighting system shall be sufficient to enable all trades to safely complete their work and to enable owner to check all work as it is being done. Illumination shall be 5 foot-candles minimum in all areas and, in addition, shall meet or exceed the requirements of 29 CFR 1926.56 Illumination (OSHA regulations) or be higher if the type of work requires more lighting for

quality control. All temporary electrical circuits for construction purposes shall be equipped with combination ground fault interrupter and circuit breakers meeting the requirements of UL for Class A, Group 1 devices.

#### E. TEMPORARY HEATING AND COOLING

- 1. All heating and cooling including fuel required after enclosure of the building shall be provided by the Contractor. It shall be the responsibility of the Contractor to see that every precaution is used to prevent unnecessary escape of heat. A minimum temperature of 45 degrees and a maximum temperature of 65 degrees for the building shall be maintained. For a period of at least ten days prior to the placing of interior woodwork and throughout the placing of this and other finish, varnishing, painting, tiling etc., and until substantial completion to provide sufficient heat to insure a temperature in the spaces involved of not less than 70 degrees nor more than 80 degrees. Temperatures must be checked during nighttime and on weekends. Restitution shall be made by Contractor responsible for damage to building and contents caused by overheating, freezing, fumes, soot or residue given off by temporary heating or lack of thereof.
- Permanent heating and cooling system may be used for temporary heating at owners discretion. Warranty period may not be affected by use of permanent heating. Temporary filters shall be used in the permanent system. If the permanent heating system appears to be dirty after use, owner may require cleaning at contractor's expense.
- 3. Provide bases, shields, etc., around heating elements to prevent too rapid drying of adjacent concrete, masonry or plaster. Surfaces and structure shall be patched as required.
- 4. The use of temporary units whose product of combustion will damage fresh concrete, mortar or other building materials, will not be allowed. Use of coke or oil salamanders is prohibited. All portable temporary heating units shall be properly ventilated to prevent combustion gases from remaining in the heating area.
- 5. Cooling shall be provided to all occupied areas that have permanent cooling installed. Such areas include but are not limited to offices, server rooms etc. Temperatures maintained must be equal to what the existing permanent system was able to maintain or what the new designed system is capable of delivering.
- 6. Cooling capacity shall be sufficient and have spare capacity as required to account for diminished performance during temporary operation. Performance can be diminished by infiltration, bent hoses, dirt etc. Plans may or may not show specific capacities. Those are approximations and more cooling may be required.
- F. TEMPORARY ELECTRICAL SERVICE
  - 1. The Contractor shall make all arrangements with the local utility company for metered electrical service, pay for the installation of all temporary service to utility point of termination shown on drawings, and upon completion of project, pay for removal of temporary service. The meter shall be taken out in the Contractor's name. The Contractor shall patch surfaces and structure after services have been removed. The Contractor shall pay for all electrical energy consumed for construction purposes for all trades including temporary offices, for operation of ventilating equipment, for heating of building, and for testing and operating of all equipment. The Contractor shall continue to pay for energy used until substantial completion even though equipment has been connected to the permanent wiring.
  - 2. Contractor shall provide and maintain electrical services in single phase or multiphase as required by equipment to be used. Provide at multiple services to ensure service to run at less than 75% of its capacity at all times and to enable short cable runs of less than 300 ft to equipment to be used.
- G. TEMPORARY WATER, SEWER AND PUMPS:
  - 1. The Contractor shall supply all water required for construction and other purposes until the permanent water supply system is accepted and in operation. As soon as possible Contractor shall install and pay for permanent water mains into new building, provide temporary gate valve and freezing protection, extend piping and provide a <sup>3</sup>/<sub>4</sub>" hose bib for use by all Contractors. Permanent lines maybe used.
  - 2. Waste of water shall be avoided and valves, connections, pumps pipes and hoses shall be provided by Contractor kept in perfect condition. Water supply used by workmen shall be kept clean and sanitary at all times.
  - 3. Sewer work shall be started and finished as soon as possible. Including backfill.

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#### **3.5. INSTALLATION**

- A. Install in accordance with manufacturer's instructions and all code requirements. Provide the owner with copy of manufacturer's instructions prior to installation. Coordinate equipment location with piping, ductwork, conduit and equipment of other trades to allow sufficient clearances. Locate equipment to provide access space for servicing all components. Install in accordance with recognized industry practices. The manufacturer's latest recommendations shall be used. It is Contractor's responsibility to enforce these requirements with all the Contractors. The Contractor shall be responsible for correcting any infringement on this requirement at no cost to onwer.
- B. Startup and test equipment and adjust operating and safety controls for proper operation.
- C. Contractor shall coordinate work with existing equipment so that all systems, equipment and other components will fit the available space, and will allow proper service and repair. Each location needs to be approved by owner. This also applies to existing equipment if newly installed equipment interferes with its accessibility. Location of equipment has to fit into existing panels, decoration or finish. Owner can request position changes of equipment before the work has begun.
- D. The Contractor shall cooperate in reducing objectionable noise or vibration. If noise or vibration is a result of improper material or installation, these conditions shall be corrected at no cost to owner. Abnormal buzzing in equipment is not acceptable.
- E. Provide carpentry, cutting, patching, and core drilling required for installation of material and equipment.
- F. WATERPROOF CONSTRUCTION: Maintain waterproof integrity of penetrations of materials intended to be waterproof. Provide flashings at exterior roof penetrations. Caulk penetrations of foundation walls and floors watertight. Provide membrane clamps at penetrations of waterproof membranes.
- G. PAINTING OF EQUIPMENT AND HARDWARE: Provide moisture resistant paint for all exterior painting. Colors shall be as shown on the drawings unless specified. All exposed conduits, raceways and gutters inside (finished spaces) and outside the building shall be painted to match the wall color.
- H. Lubricate all bearings with lubricant as recommended by the manufacturer before the equipment is operated for any reason. Once the equipment has been run, maintain lubrication in accordance with the manufacturer's instructions until the work is accepted by owner. Maintain a log of all lubricants used and frequency of lubrication; include this information in the Operating and Maintenance Manuals at the completion of the project.

#### 3.6. DELIVERY, STORAGE AND HANDLING OF MATERIALS

- A. Contractor must be present to accept delivery of all equipment and material shipments. Owner will not knowingly accept, unload or store anything delivered to the site for the Contractor's use. Inadvertent acceptance of delivered items by owner shall not constitute acceptance or responsibility for any of the materials or equipment. It is the Contractor's responsibility to assume liability for equipment or material delivered to the job site.
- B. Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays. Materials and equipment shall be delivered to the site in adequate time to ensure uninterrupted progress of the work and inspection of material by owner. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Packaged units shall be delivered in their original crates.
- C. Store in a clean and dry space. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic. Promptly inspect shipments to insure that the material is undamaged and complies with specifications. Materials or equipment, which do not conform to the Specifications or are damaged shall not be incorporated in the work and shall be immediately removed from the site.
- D. Arrange for the necessary openings in the building to allow for admittance of all apparatus. When the building access was not previously arranged and must be provided by this Contractor, restore any opening to its original condition after the apparatus has been brought into the building.
- E. Contractor shall confine equipment, apparatus, storage of materials and operations to limits indicated on the drawings or by specific direction of owner. Storage of materials within the building shall at no time exceed the design carrying capacity of the structural system. The Contractor assumes full responsibility for damage due to the storage of materials.
- F. Material shall be stored according to manufacturer's recommendations as a minimum. Provide and maintain watertight storage sheds on the premises where directed, for storage of materials that might be damaged by weather. Sheds shall have wood floors raised at least 6" above the ground. Materials,

construction sheds, and earth stockpiles shall be located so as not to interfere with the installation of the utilities nor cause damage to existing lines. Should it be necessary at any time to move material sheds or storage platforms, the Contractor shall move it at the Contractor's expense, when directed by owner.

- G. If necessary, material will be stored off site at the Contractor's expense. Offsite storage agreements will not relieve the Contractor from using proper storage techniques. Storage and protection methods must allow inspection to verify products.
- H. All materials shall be stored in a manner that prevents release of hazardous material to the environment. All hazardous materials, including motor fuels, shall be properly handled and contained to prevent spills or other releases. The Contractor shall develop and maintain a contingency plan to provide emergency response, containment, and cleanup of spills of hazardous materials resulting from contract activities. All spills and releases shall be reported to owner immediately

#### 3.7. CONCRETE WORK

- A. Provide all layout drawings, anchor bolts, metal shapes, and/or templates required to be cast into concrete or used to form concrete for support or installation of electrical, mechanical, plumbing piping, fixtures, specialties and equipment. This includes but is not limited to piping thrust restraints, pipe supports, hydrant supports, manholes, catch basins, grease traps, septic tanks, distribution boxes, valve pits, meter pits, cleanout cover pads, yard hydrant pads, etc. Coordinate locations of equipment, pipe penetrations in wet areas, etc. with other trades.
- B. Unless noted otherwise provide cast in place concrete for equipment pads, manhole bases and thrust blocks. Concrete to be 3,000 psi at 28 days, 3/4 inch aggregate, five bags cement, three inch slump, air entraining admixture. The ACI 614 Recommended Practice for Measuring, Mixing and Placing of Concrete shall constitute the execution requirements.

#### 3.8. OPENINGS, SLEEVES, CUTTING, STRUCTURAL ATTACHMENT, PATCHING AND PAINTING

- A. Before any drilling, cutting or other type of opening the contractor shall verify that no conduits, wires, pipes or other items are in or near opening area. X-ray or ground-penetrating radar technology shall be employed to survey ceilings, slabs or walls when potentially damaging opening techniques are employed. Existing available data and records may not be accurate regarding exact location of structural steel, pipes or conduit.
- B. Openings shall be the responsibility of the Contractor requiring the openings even if such openings are . not shown on drawings. The Contractor shall install sleeves for all openings and shall submit to the owner for review and approval, layout drawings of all such required sleeves and/or openings. Sleeve and opening sizes and locations shall be dimensioned from column lines and floor elevations or from a point of reference approved by owner.
- C. All openings shall be made as airtight, watertight, fireproof, smoke-tight, thermally insulated as the wall they are in. Patch wall around sleeve to match adjacent wall construction and finish. In finished spaces where penetration through wall is exposed to view, sheet metal sleeve shall be installed flush with face of wall. Grout area around sleeve in masonry construction. Patching includes repairing openings to match adjacent construction and painting the surface to match existing surface including texture.
- D. For floor pipe and duct penetrations through floors in mechanical rooms and wet locations (all rooms with water tap or connection, Parking ramps, kitchens, food service areas, pumping stations, swimming pools, chemical storage, storage of liquids or locations that can get wet by accident or failure of a component etc.), core drill opening and provide 1-1/2"x 1-1/2" x 1/8" galvanized steel angles fastened to floor surrounding the penetration or group of penetrations to prevent water from getting to penetration. Provide urethane caulk between angles and floor and fasten angles to floor minimum 8" on center. Seal corners water tight with urethane caulk. Or, core drill sleeve opening large enough to insert schedule 40 sleeve and grout area around sleeve with hydraulic setting, non-shrink grout. If the pipe penetrating the sleeve is supported by a pipe clamp resting on the sleeve, weld a collar or struts to the sleeve that will transfer weight to existing floor structure. Size sleeve to allow insulation and paint the sleeve.

#### E. PIPE SLEEVES:

1. Provide galvanized sheet metal sleeves for pipe penetrations through interior and exterior walls to provide a backing for sealant or firestopping. Pipe sleeves in new poured concrete construction shall be schedule 40 steel pipe (sized to allow insulated pipe to run through sleeve), cast in place.

- 2. Pipe sleeves are not required in interior non-rated drywall, plaster or wood partitions and sleeves are not required in existing poured concrete walls where penetrations are core drilled.
- 3. Pipe sleeves in new poured concrete construction shall be schedule 40 steel pipe (sized to allow insulated pipe to run through sleeve), cast in place.
- 4. Extend the top of sleeve 2 inch above the adjacent floor in piping floor penetrations located in the mechanical rooms and wet locations listed below. In finished areas sleeves shall be flush with rough floor.
- F. DUCT SLEEVES:
  - 1. Duct sleeves are not required in non-rated partitions or floors.
  - 2. Provide sleeve required for fire dampers in fire-rated partitions and floors.
- G. NON-RATED PENETRATIONS:
  - 1. Conduit Penetrations Through Below Grade Walls: In exterior wall openings below grade, use a modular mechanical type seal consisting of interlocking synthetic rubber links shaped to continuously fill the annular space between the uninsulated conduit and the cored opening or a water-stop type wall sleeve.
  - 2. Conduit and Cable Tray Penetrations: At conduit and cable tray penetrations of non-rated interior partitions, floors and exterior walls above grade, use urethane caulk in annular space between conduit and sleeve, or the core-drilled opening.
  - 3. In exterior wall openings below grade, assemble rubber links of mechanical seal to the proper size for the pipe and tighten in place, in accordance with manufacturer's instructions.
- H. Do not pierce beams or columns without owner's permission and then only as directed in writing.
- I. No devices or materials shall be attached to non-structural or structural members or parts of the building without approval by owner. All items shall be attached to structurally stable building parts only. Provide all supporting devices as required for the installation of mechanical equipment and materials. All supports and installation procedures are to conform to the latest requirements of the ANSI Code for building piping. Do not hang any mechanical item directly from a metal deck or run piping so its rests on the bottom chord of any truss or joist. Fasteners depending on soft lead for holding power or requiring powder actuation will not be accepted. Support apparatus and material under all conditions of operation, variations in installed and operating weight of equipment and piping, to prevent excess stress, and allow for proper expansion and contraction.
- J. Provide all supporting steel required for the installation of mechanical equipment and materials, including angles, channels, beams, etc. to suspended or floor supported tanks and equipment. All of this steel may not be specifically indicated on the drawings.

#### 3.9. IDENTIFICATION

- A. All labels shall be permanent, and machine generated. NO HANDWRITTEN OR NON-PERMANENT LABELS ARE ALLOWED.
- B. Identify all equipment with engraved name plates (White letters on a black background, 1/16 inch thick plastic laminate, beveled edges, screw mounting, Setonply Style 2060 by Seton Name Plate Company or Emedolite Style EIP by EMED Co., or equal by W. H. Brady).
- C. Identify interior piping with >1" stencils or snap-around pipe marker Equal to Seton Setmark not less than once every 25 feet, not less than once in each room, not less than once per 6' (or larger) section, adjacent to each access door or panel, and on both side of the partition where accessible piping passes through walls or floors. Place flow directional arrows at each pipe identification location. Label all pipes with name of loop and arrows for flow direction with permanent label. Mark pipes based on served system as "hot", "cold", and as "boiler", "chilled", "geothermal" and also as "glycol" or "water". All supply water shall be labeled per code as "potable" (green background / white letters) or "non-potable" (yellow background / black letters). Label all gauges. Use one coat of black enamel against a light background or white enamel against a dark background.
- D. Provide all buried utilities, conduit and pipes with detectable underground warning tape, 5.0 mil overall thickness, 6" width, .0035" thick aluminum foil core with polyethylene jacket bonded to both sides. Color code tape and print caution along with name of buried service in bold letters on face of tape. Manufacturers: Thor Enterprises Magnatec or equal by Carlton, MSI Marking Services, Seton.
- E. Extend tape to surface at building entrances, meters, hydrants and valves. Where existing underground warning tape is broken during excavation, replace with new tape identifying appropriate service and securely spliced to ends of existing tape.

- F. All underground non-metallic sewers/mains and water services/mains shall be provided with tracer wire installations. Tracer wire installations shall conform with code. Tracer wire shall be continuous solid copper or steel plastic coated with split bolt or compression-type connectors.
- G. Identify valves with brass tags bearing a system identification and a valve sequence number. Use round brass tags with 1/2 inch numbers, 1/4 inch system identification abbreviation, 1-1/4 inch minimum diameter, with brass jack chains, brass "S" hooks or one piece nylon ties around the valve stem, available from EMED Co., Seton Name Plate Company, or W. H. Brady. Valve tags are not required at a terminal device unless the valves are greater than ten feet from the device, located in another room or not visible from device. Provide a typewritten valve schedule and pipe identification schedule indicating the valve number and the equipment or areas supplied by each valve and the symbols used for pipe identification; locate schedules in mechanical room and in each Operating and Maintenance manual. Schedule in mechanical room to be framed under clear plastic.
- H. Identify balancing valves like valves above and in addition include balancing chart for the specific balancing valve and detail the setting and flow set at time of balancing.
- Label fire, smoke and combination fire smoke dampers on the exterior surface of ductwork directly adjacent to access doors using a minimum of 0.5 inch height lettering reading, "SMOKE DAMPER" or "FIRE DAMPER". Smoke and combination fire smoke dampers shall also include a second line listing the individual damper tag. The tags must be coordinated with the mechanical schedules. Utilize stencils or manufactured labels. All other forms of identification are unacceptable. All labels shall be clearly visible from the ceiling access point.
- J. Label all conductors. Size shall be appropriate for the conductor or cable size(s), outlet faceplate layout and patch panel design. All labels shall be self-laminating, white/transparent vinyl and be wrapped around the cable or sheath. Flag type labels are not allowed. The labels shall be of adequate size to accommodate the circumference of the cable being labeled and properly self-laminate over the full extent of the printed area of the label.

#### 3.10. TRAINING AND DEMONSTRATION

- A. The owner's facility staff (and occupants and service Contractors as needed), shall receive orientation and training on features, systems and equipment in this facility requisite with the complexity and criticality of the system and the owner's needs. Additional training requirements may be found in specific equipment sections. Owner may video-record all training sessions.
- B. Only training on equipment that is commissioned and works as designed and with approved Operations and Maintenance manual is acceptable. If system fails, training will be repeated.
- C. The Contractor shall be responsible for training coordination and scheduling and ultimately for ensuring that training is completed on all equipment per the Specifications. Unless otherwise required or approved, the training shall be given during regular business hours during a regular work week.
- D. Owner will be responsible for coordinating and approving the content and adequacy of the training.
- E. Training team shall consist of, as needed and at the discretion of the owner, the installing technician, installing Contractor and the appropriate trade or manufacturer's representative on each major piece of equipment. Practical building operating expertise as well as in-depth knowledge of all modes of operation of the specific piece of equipment as installed in this project is required by the person training. If owner determines training was not adequate, it will be repeated in improved form.
- F. Follow the outline in the table of contents of the operation and maintenance manual and illustrate whenever possible the use of the O&M manuals for reference. Training Shall Include the Following:
  - 1. Use of the printed installation, operation and maintenance instruction material included in the O&M manuals.
  - 2. A review of the written O&M instructions emphasizing safe and proper operating requirements, preventative maintenance, and special tools needed and spare parts inventory suggestions. The training shall include start-up, operation in all modes possible, shutdown, seasonal changeover, as applicable, and any emergency procedures.
  - 3. Discussion of relevant health and safety issues and concerns.
  - 4. Discussion of warranties and guarantees.
  - 5. Common troubleshooting and maintenance issues, problems and solutions.
  - 6. Explanatory information included in the O&M manuals and the location of all related plans and manuals in the facility.
  - 7. Discussion of any peculiarities of equipment installation or operation.
- G. Hands-on training shall include start-up, operation in all modes possible, including manual, shutdown and any emergency procedures and preventative maintenance for all pieces of equipment.

- H. Training shall occur after functional testing and piping and equipment labeling are complete unless approved otherwise by Owner.
- I. HVAC CONTROL SYSTEMS:
  - 1. Not Applicable.

2.

- J. FIRE ALARM SYSTEM:
  - 1. Not applicable

#### 3.11. TESTS, PUNCH LIST AND FINAL ACCEPTANCE

- A. The complete installation consisting of the several parts and systems and all equipment installed according to the requirements of the Contract Documents, shall be ready in all respects for use by onwer and shall be subjected to a test at full operating conditions and pressures for normal conditions of use.
- B. Contractor shall make all necessary adjustments and replacements affecting the work, which is necessary to fulfill owner's requirements and to comply with the directions and recommendations of the manufacturer of the several pieces of equipment, and to comply with all codes and regulations, which may apply to the entire installation. Contractor shall also make all required adjustments to comply with all provisions of the drawings and specifications.
- C. Prior to acceptance, all elements of operating equipment, including those of mechanical nature and those that slide, swing, turn, or are intended to move in any way and those of an electrical nature, shall be given an operating test to assure to the satisfaction of owner that such equipment operates as required. Contractor shall make all adjustments, replacements, and such other modifications as needed. If it is necessary to run equipment in order to complete the work, for periods that exceed the manufacturer's recommended maintenance interval, the Contractor will provide such required maintenance at no additional cost to owner.
- D. Notice that the work is ready for final inspection and acceptance shall be given after the Contractor has carefully inspected all portions of the work, has reviewed in detail the drawings and specifications, and that to the best of the Contractor's knowledge all conditions of the contract documents have been fulfilled. The owner and the Contractor shall make a joint inspection of the work and owner will issue a punchlist.
  - 1. Multiple punch lists can be submitted and neither punchlist may be considered final. Punchlist can be submitted throughout the entire warranty period.
  - 2. If Contractor fails to perform required corrective work in less than 30 days upon receipt of punch list by Contractor, owner can perform corrections or hire a separate contractor and charge the Contractor the full cost.
  - 3. Contractor shall advice owner that the necessary work has been performed. If punch list items were not resolved and the work was not performed in less than 30 days upon receipt of punch list by Contractor, the Contractor shall be required to compensate the owner for additional site visits of project manager, design professional and other related staff at a rate of \$ 100/hour plus mileage. The amount shall be paid to the owner prior to processing the final payment. Payment may be processed as deductive change order.
- E. After deficiencies, if any, have been corrected or accounted for, and after all work is satisfactorily complete, the City will accept the work; and Notice of Completion will be filed by owner. The contractor shall test equipment before claiming completion. Prior to final acceptance, filing of the Notice of Completion or processing of final payment, the following shall be done and submitted reviewed and accepted by owner:
  - 1. Certificates of compliance and guarantees required under various Sections
  - 2. Operating and maintenance manuals
  - 3. Instruction to City personnel, as required
  - 4. Test reports (TAB, fire alarm, elevator etc.)
  - 5. Certifications and registrations (boiler etc.)
  - 6. All keys
  - 7. Replacement material as required in specifications
  - 8. All required operations tests
  - 9. All documents required by commissioning, LEED certification and other project related documents
  - 10. Satisfy all commissioning requirements

- 11.As -built documents
- 12.All punch list items resolved
- 13.All training provided (except deferred seasonal training)
- 14.All warranty issues brought to Contractor's attention so far resolved
- 15. Warranty documents signed by representative of manufacturer, guarantee documents, roofing agreement and other warranty related documents

#### 3.12. CLEANING

- A. The construction site shall be kept in clean and safe manner. The Contractor shall clean up and remove from the premises, on a daily basis accumulation of surplus materials, rubbish, debris and scrap and shall repair all damage to new and existing equipment resulting from its work. When job is complete, this Contractor shall remove all tools, excess material and equipment, etc., from the site. Contractors or subcontractors found to be in violation may be required to leave the jobsite until their staff is trained in orderly, clean and safe construction site work. Clean and safe construction site includes but is not limited to:
  - 1. All trades keep a separate and neat area for material, equipment etc.
  - 2. Equipment and material not needed anymore is removed from the jobsite
  - 3. Demolition material and equipment is removed from jobsite daily
  - 4. All material and equipment is sorted and stored properly
- B. Spreading of dirt, dust and other construction related material must be kept to a minimum. Occupied and work areas must be separated by seals. Such seals shall be inspected and repaired frequently as needed to ensure proper sealing at all times.
- C. Keep streets, walks and all other adjacent paved areas clean and swept clear of dirt, mud and debris deposited as a result of this operation. Protect surrounding area from dust. Control rodents, and other vermin associated with demolition operations.
- D. All installed items shall be cleaned at time of installation, and all lens exteriors shall be cleaned just prior to final inspection. Equipment shall be thoroughly cleaned of all stains, paint, spots, dirt and dust. All temporary labels not used for instruction or operation shall be removed. Dust, dirt and other foreign matter shall be removed completely from all internal surfaces of all mechanical and electrical units, cabinets, ducts, pipes, etc. Dirt, soil, fingerprints, stains and the like, shall be completely removed from all exposed finished surfaces.
- E. Contractor shall wash all glass immediately prior to the occupancy of this project. Work shall include the removal of labels, paint splattering, glazing compound and sealant. Surfaces shall include mirrors and both sides of all glass in windows, borrowed lights, partitions, doors and sidelights. In addition to the above, the Contractor shall be responsible for the general "broom" cleaning of the premises and for expediting all of the cleaning, washing, waxing and polishing required within the technical sections of the specifications governing work under this Contract. The Contractor shall also perform "final" cleaning of all exposed surfaces to remove all foreign matter, spots, soil, construction dust, etc., so as to put the project in a complete and finished condition ready for acceptance and use intended.
- F. If rubbish and debris is not removed, or if surfaces are not cleaned as specified above, the owner reserves the right to have said work done by others and the related cost(s) will be deducted from monies due the Contractor.

# APPENDIX A - WASTE MATERIALS ESTIMATING SHEET

- Instructions: Use as many sheets as needed.

PROJECT TITLE: COMPANY: DATE:

		Total Amount Generated		Amount Recycled		Amount Salvaged		Amount Sent to Landfill	
Material	Destination	Tons	Cu Yds	Tons	Cu Yds	Tons	Cu Yds	Tons	Cu Yds
			~						
Total									

## APPENDIX B - LANDFILL LOG

Instructions:	Use as many sheets as	s needed.
Project Title:		
Company:		
Log Dates:	thro	ugh _

Date	Destination	Cubic Yards Land filled	Tons Land filled
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
		·	
· · · · · · · · · · · · · · · · · · ·			
	·		
Total			

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# APPENDIX C - WASTE DIVERSION LOG

Instructions: Use as many sheets as needed. Project Title: Company: Log Dates: \_\_\_\_\_\_\_through

Material	Date						
		Destination	Salvaged	Recycled	Tons	Cubic Yards	Cost
			-				
					-		
				_			
			-				
-							
Total	<u></u>						

#### FIRE STATION #5- MASONRY RESTORATION SPECIFICATIONS

#### 1.1 SCOPE OF WORK

Work for this project shall consist of repointing the defective mortar joints and brick replacement as shown in the shaded areas on the plans. Repairs shall be made using the following criteria:

- a. Any mortar joint that is loose, porous, crumbled, cracked, badly weathered (deeper than 1/8" behind masonry surface), un-bonded to adjacent masonry units, or a potential source of leakage shall be deemed defective and shall be repointed. Include cracked joints that have been sealed.
- b. Any brick that is spalled, cracked, crumbling, broken, or otherwise defective brick shall be removed and replaced using brick and mortar as specified herein. Facing brick, which are spalled 1/16" or greater in depth over 10 percent or more of the face area shall be removed and replaced. Isolated bricks with cracks larger than 1/32" shall be deemed defective and shall be replaced. Bricks with efflourescence and/or numerous micro crack that are suspect of spalling shall be sounded by a light tapping to determine if they are to be replaced. If tapping reveals the brick to be unsound it shall be replaced. Replacement bricks shall be salvaged from the brick removed in preparation of the door opening. Any additional bricks beyond the amount recovered shall be supplied by the City.

#### 1.2 DEFINITIONS

- A. Repointing: The process of raking out (removing) mortar and replacing it with new mortar.
- B. Pointing: The process of placing new mortar in existing joint spaces, which have previously been raked out. This term does not include the raking out process.
- C. Tuckpointing: The process of touching up existing mortar joints by filling in recesses with new mortar, without first raking out the joints.

#### 1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each product indicated including recommendations for their applications and use. Includes test reports and certifications substantiating that products comply with requirements.
- B. Submit color/texture samples.

For each type of mortar for pointing and masonry rebuilding and repair, submit at least 3 samples in the form of mortar strips 6 inches long by 1/2 inch wide set in aluminum or plastic channels. Provide 3 progressive color shades with similar type of sand as found in the original mortar. These samples must have cured a sufficient time to allow for mature color of the mortar to be represented. The Project Manager must approve the mortar type and color match prior to starting work. The volumetric formula for the successful color match shall be submitted to the project manager in writing including the sources for the materials used.

The contractor may elect to submit color match samples in the building masonry in combination with the samples areas described in 1.4 QUALITY ASSURANCE section B

C. Restoration Program; for each phase of the restoration process, including protection of surrounding materials on building and site during operations. Describe in detail the materials, methods, and equipment to be used for each phase of the restoration work.

#### 1.4 QUALITY ASSURANCE

- A. Restoration Specialist: Work must be performed by a firm having not less than 5 years successful experience in comparable masonry restoration projects and employing personnel skilled in the restoration processes and operations indicated. Submit 3 references for similar type work.
- B. After awarding the contract and prior to starting work: Prepare 2 sample areas of approximately 2 feet high by 2 feet wide for each type of repointing required, one for demonstrating methods and quality of workmanship expected in removal of mortar from joints and the other for demonstrating quality of materials and workmanship expected in pointing mortar joints appearance to adjacent existing joints. These two areas may be combined into a single area. The Project Manager shall inspect the first sample area prior to proceeding to the work described in the second sample area. The intent of the new repointing work is to match cleaned existing mortar. Newly pointed areas should be consistent with existing adjacent mortar joints for color and texture. The final recipe for the selected mortar mix shall be submitted to the City.
- C. When repointing this work, all joints will begin at the intersection of a horizontal and head joint and end at a horizontal and head joint.

#### 1.5 PROJECT CONDITIONS

- A. Do not repoint mortar joints or repair masonry unless air temperature is between 40°F and 85°F and will remain so for at least 48 hours after completion of work.
- B. Prevent grout or mortar used in repointing and repair work from staining face of surrounding masonry and other surfaces. Immediately remove grout and mortar in contact with exposed masonry and other surfaces.
- C. Protect sills, ledges, and projections from mortar droppings.

#### 1.6 SEQUENCING/SCHEDULING

- A. Perform masonry restoration work in the following sequence:
  - 1. Thoroughly clean area to be repointed, remove all dirt and efflorescence. Repair any existing masonry as specified in the scope of work, including replacing existing masonry with new masonry materials.
  - 2. Rake out existing mortar from joints indicated to be repointed.
  - 3. Repoint existing mortar joints of masonry indicated to be restored.

#### PART 2 - PRODUCTS

#### 2.0 MORTAR MATERIALS

- A. Portland Cement: ASTM C 150, Type I
- B. Hydrated Lime: ASTM C 207, Type S
- C. Mortar Sand: ASTM C 144, unless otherwise indicated.
  - 1. Color: Provide natural sand; of color necessary to produce required mortar color.
  - 2. For the repointing mortar, provide sand with rounded edges.
  - 3. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sand types, if necessary, to achieve suitable match.
- D. Mortar Pigments: Natural and synthetic iron oxides, compounded for mortar mixes. Use only pigments with a record of satisfactory performance in masonry mortars.

- E. Water: Potable.
- F. Selection of Mortar: Use tuck pointing mortar of the same or weaker composition as the original mortar.

#### 2.1 TUCKPOINTING MORTAR MIXES

A. Measurement and Mixing: Measure cementitious and aggregate material in a dry condition by volume or equivalent weight. Do not measure by shovel, use known measure. Mix materials in a clean mechanical batch mixer.

Mixing Pointing Mortar:

- 1. Dry mix all solid materials.
- 2. Add sufficient water to produce a damp mix that will retain it shape when pressed into a ball by hand. Mix from 3-7 minutes, preferably with a mechanical mixer.
- 3. Let mortar stand for not less than 1 hour not more that 1 ½ hour for prehydration.
- 4. Add sufficient water to bring the mortar to the proper consistency for tuckpointing, somewhat drier than mortar used for laying the units.
- 5. Use the mortar within 2 ½ hours of its initial mixing. Permit tempering of the mortar within the time interval.
- B. Colored Mortar: Produce mortar of color required by using pre-manufactured concentrated colored mortar pigment.
  - 1. Colored Mortar Pigment: Where colored mortar pigments are indicated, do not exceed a pigment-to-cement ratio of 1:10 by weight.
- C. Do not use admixtures of any kind in mortar, unless otherwise indicated.
- D. Mortar Proportions: Mix mortar materials in the following proportions:
  - 1. Pointing Mortar for Brick: Mortar types N; One part white portland cement, one parts lime, and six parts colored or natural mortar aggregate.
    - a. Add colored mortar pigment to product as required. The repointing mortar shall match the original in color, grain size and texture.

#### 2.3 REPLACEMENT BRICK

A. Replacement brick beyond the amount that was salvaged shall be provided by the owner. The contractor shall be required to blend the salvaged brick with any new replacement brick.

#### PART 3 - EXECUTION

#### 3.9 REPOINTING MASONRY

A. Rake out joints as follows:

1. Rake out mortar from joints to depths equal to 2-1/2 times their widths but not less than 3/4 inch nor less than that required to expose sound, unweathered mortar.

- 2. Remove mortar from masonry surfaces within raked-out joints to provide reveals with square backs and to expose masonry for contact with pointing mortar. Brush, vacuum, or flush joints to remove dirt and loose debris.
- 3. Do not spall edges of masonry units or widen joints. Replace damaged masonry units.
  - a. Power-operated rotary hand saws and grinders may be used only if the contractor is able to satisfactorily field demonstrate to the Project Manager the ability of the operators to use tools without damaging masonry. The equipment must be sized for the operator in order to satisfactorily control the cutting action with precision. Any masonry units that are damaged in this process shall be the responsibility of the contractor to repair or replace at their cost.
  - b. The contractor shall provide dust containment when using power operated grinders or saws that generate silica dust. The contractor shall field demonstrate safeguards that adequately protect the general public from the hazardous of silica dust.

#### B. Repoint joints as follows:

- 1. Rinse masonry joint surfaces with water to remove dust and mortar particles. Time the rinsing application so that at the time of pointing excess water has evaporated or run off and joint surfaces are damp but free of standing water. If rinse water has dried, dampen masonry joint surfaces before pointing.
- 2. Fill mortar joints starting at one end and work away from the starting area. Compact the mortar thoroughly to ensure joints are fully packed and no voids or air pockets are in the mortar.
- 3. Once area is complete, and mortar is thumbprint hard, final tool (strike) mortar joints in opposite direction ensuring mortar joints are fully packed and tool (strike) to final appearance. Joints shall match existing joints in color, grain size and texture as closely as possible. Take care not to spread mortar over edges onto exposed masonry surfaces, or to featheredge mortar. Remove excess mortar from edge of joint by brushing.
- 4. Spray a light mist of water on mortar to aid in proper curing. Maintain mortar in a damp condition while on jobsite. Final spray a light mist of water on mortar just prior to leaving jobsite. If conditions dictate, cover the area with damp burlap or blankets or return to the jobsite and rehydrate the mortar joints as required to ensure a proper cure.

#### 3.12 FINAL CLEANING

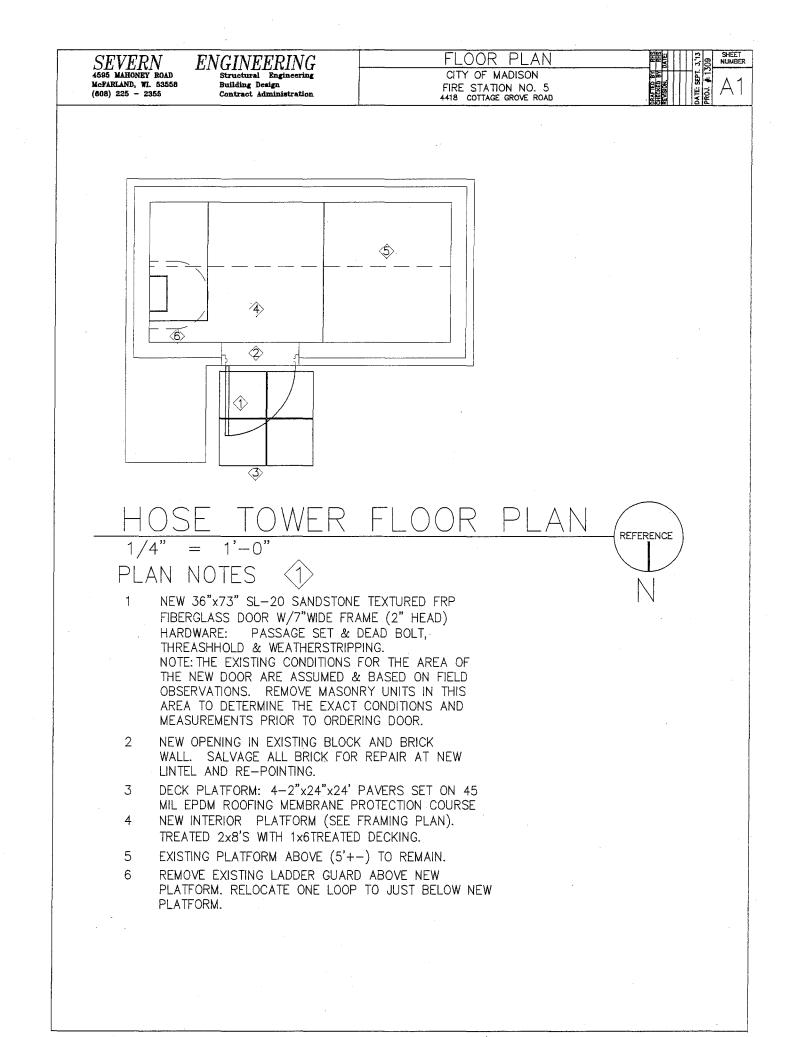
- A. After mortar has fully hardened, thoroughly clean exposed masonry surfaces of excess mortar and foreign matter using wood scrapers, stiff nylon or bristle brushes and clean water spray-applied at a low pressure.
- B. Using metal scrapers or brushes is not permitted.
- C. Using acid or alkali cleaning agents is not permitted. Any cleaning chemicals must be approved prior to use.
- D. Wash adjacent woodwork and other non-masonry surfaces. Use detergent and soft brushes or cloths.
- E. Clean masonry debris from surrounding building structures, such as roof and gutters; remove debris from inside of gutters and downspouts. Rinse off roof and flush gutters and downspouts.

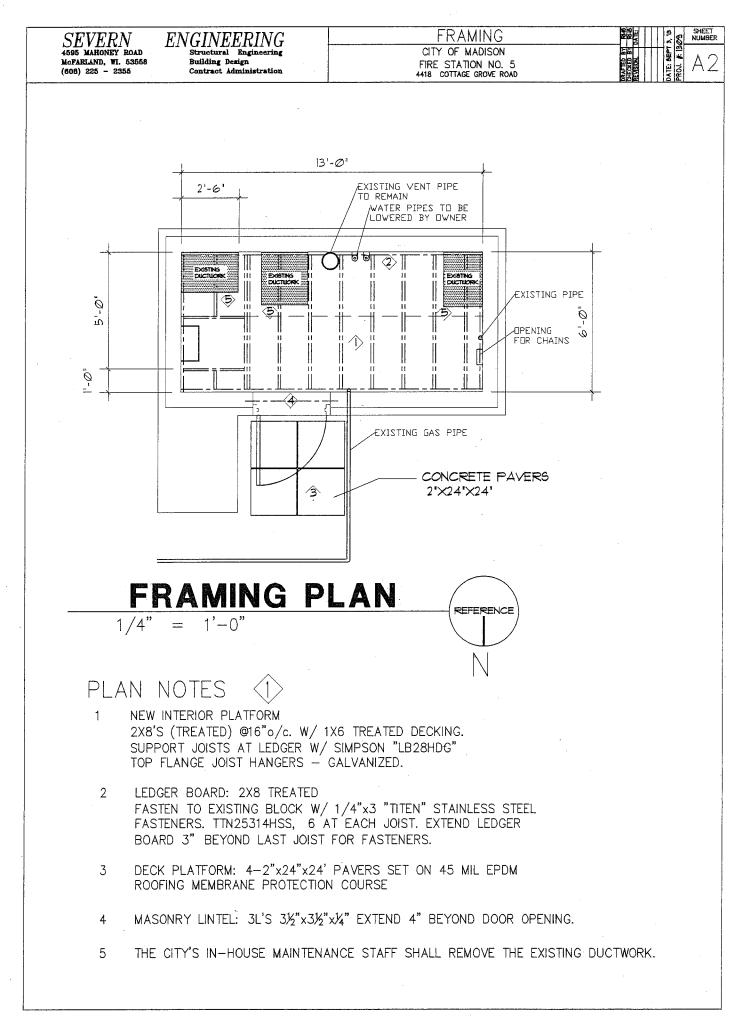
Sweep and rake adjacent pavement and grounds to remove masonry debris. Where necessary, pressure wash surfaces to remove mortar, dust, dirt and stains.

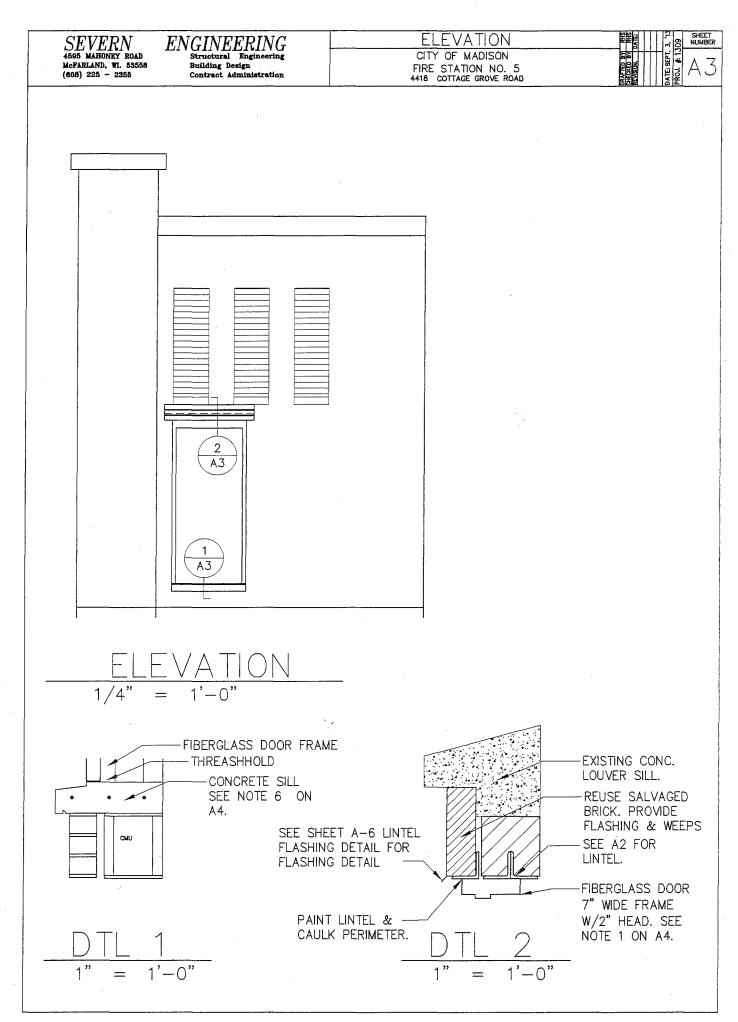
END OF SECTION

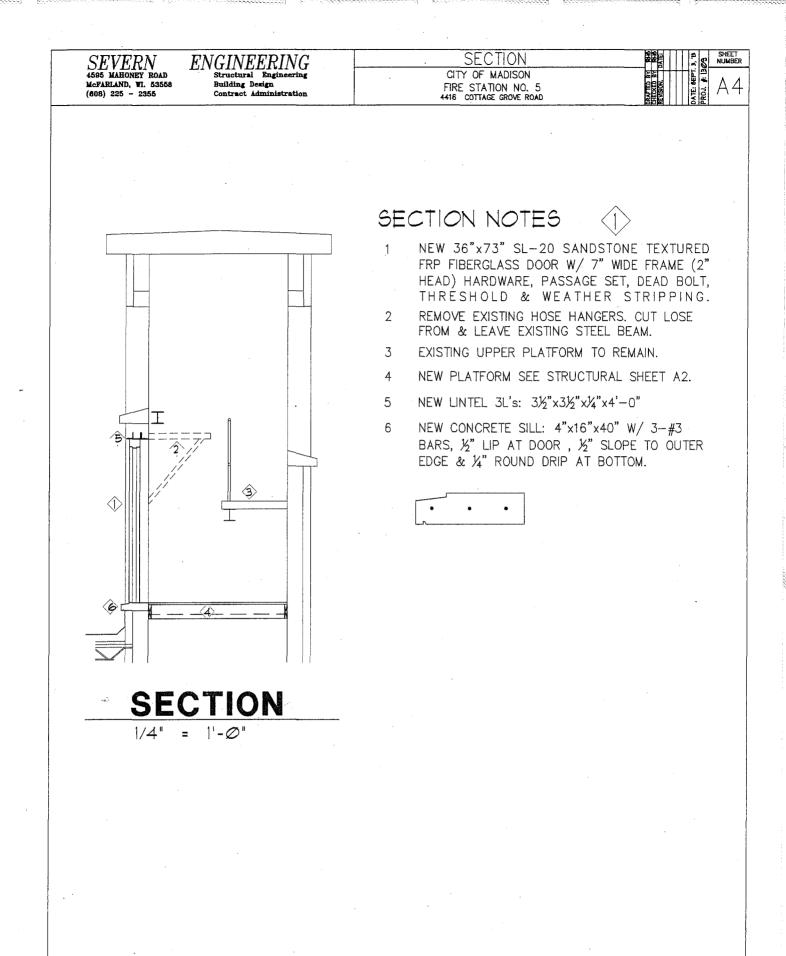
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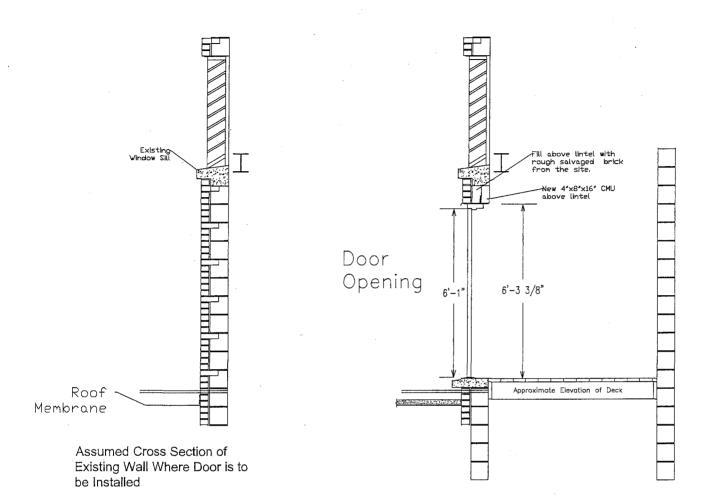




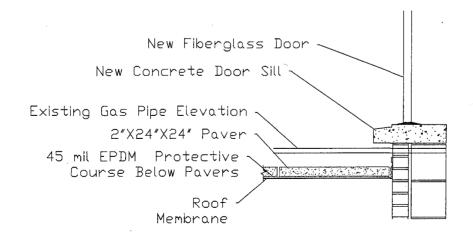
Facilities & Sustainability Management 210 Martin Luther King Jr. Blvd Room 115

Fire Station No. 5- Masonry Repairs 4418 Cottage Grove Road Sheet Number

A5



Cross Section of Door Opening



Cross Section of Door Sill

CITY OF MADISON

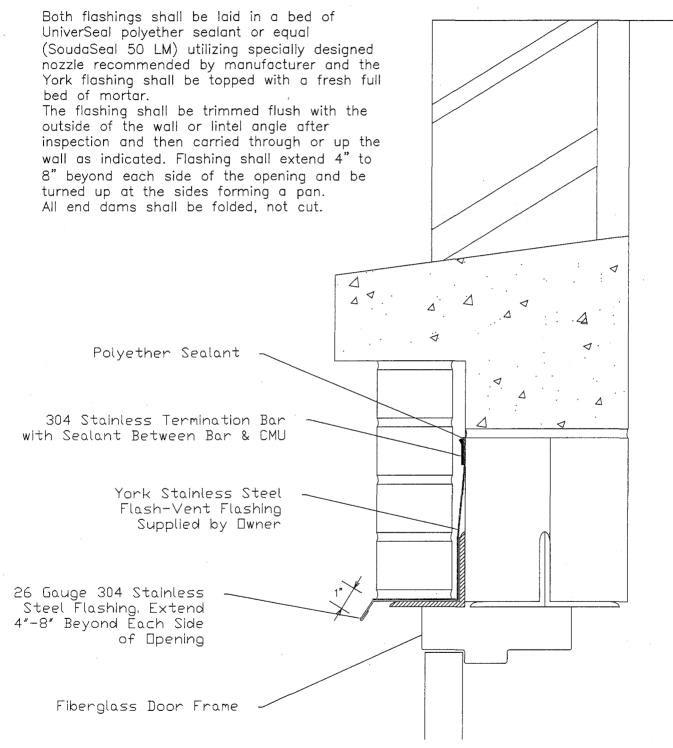
Facilities & Sustainability Management 210 Martin Luther King Jr. Blvd Room 115

Lintel Flashing Detail

Fire Station No. 5- Masonry Repairs 4418 Cottage Grove Road Sheet Number

A6

# Notes:



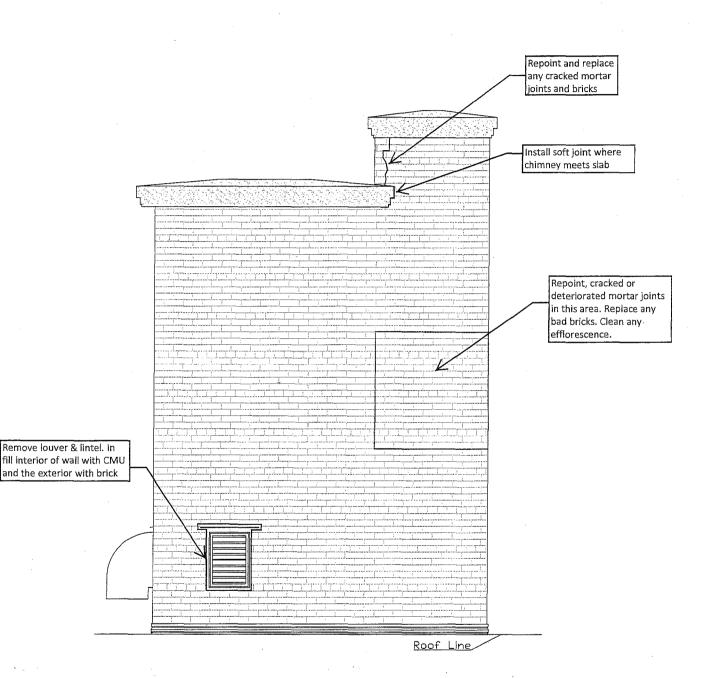
# **Cross Section of Lintel Flashing**

D-47



# Fire Station #5 East Elevation

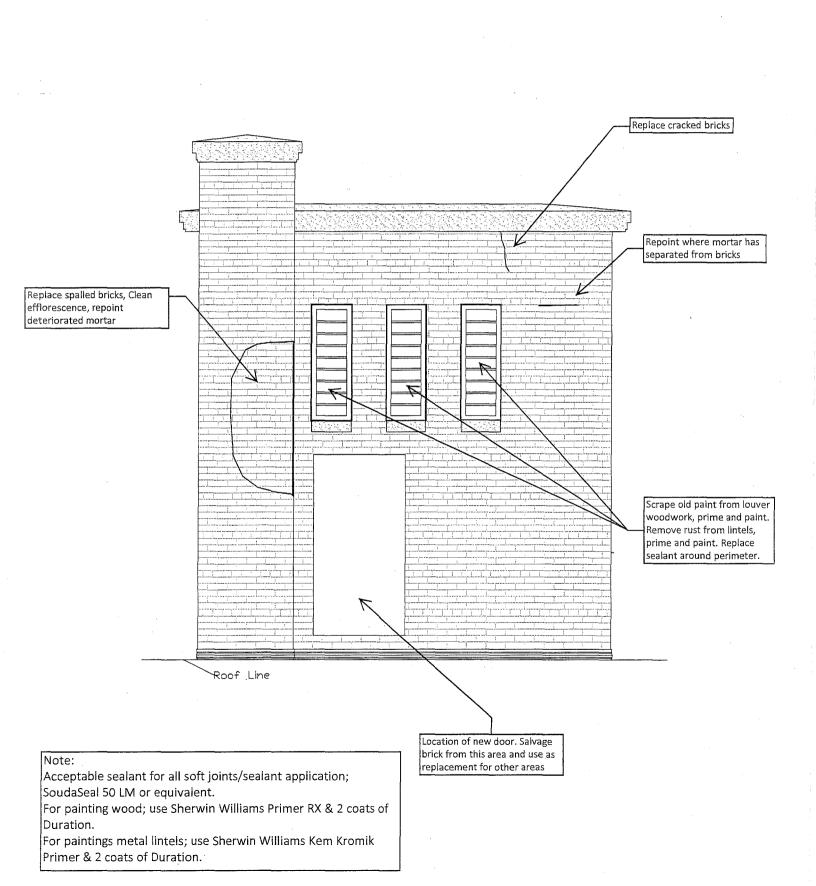
# Hose Tower Repairs



#### Note:

Inspect the interior of the hose tower and repoint any deteriorate or cracked masonry joints in the CMU wall above the new platform.

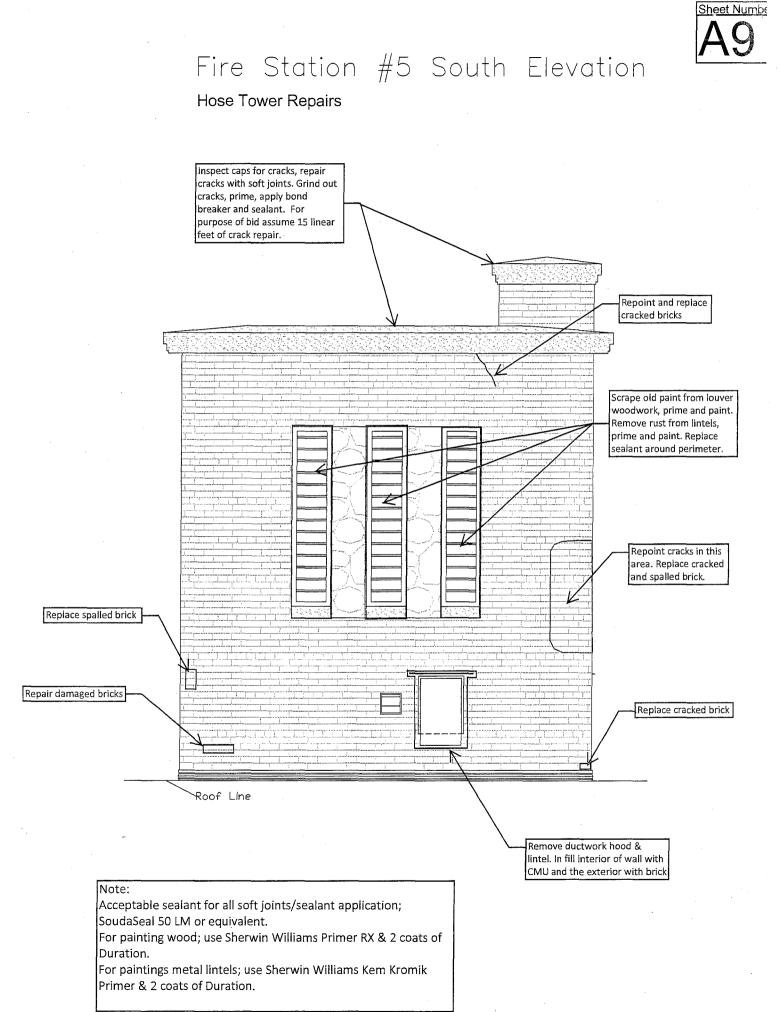
Acceptable sealant for all soft joints/sealant application; SoudaSeal 50 LM or equivalent. For painting wood; use Sherwin Williams Primer RX & 2 coats of Duration. For paintings metal lintels; use Sherwin Williams Kem Kromik Primer & 2 coats of Duration.



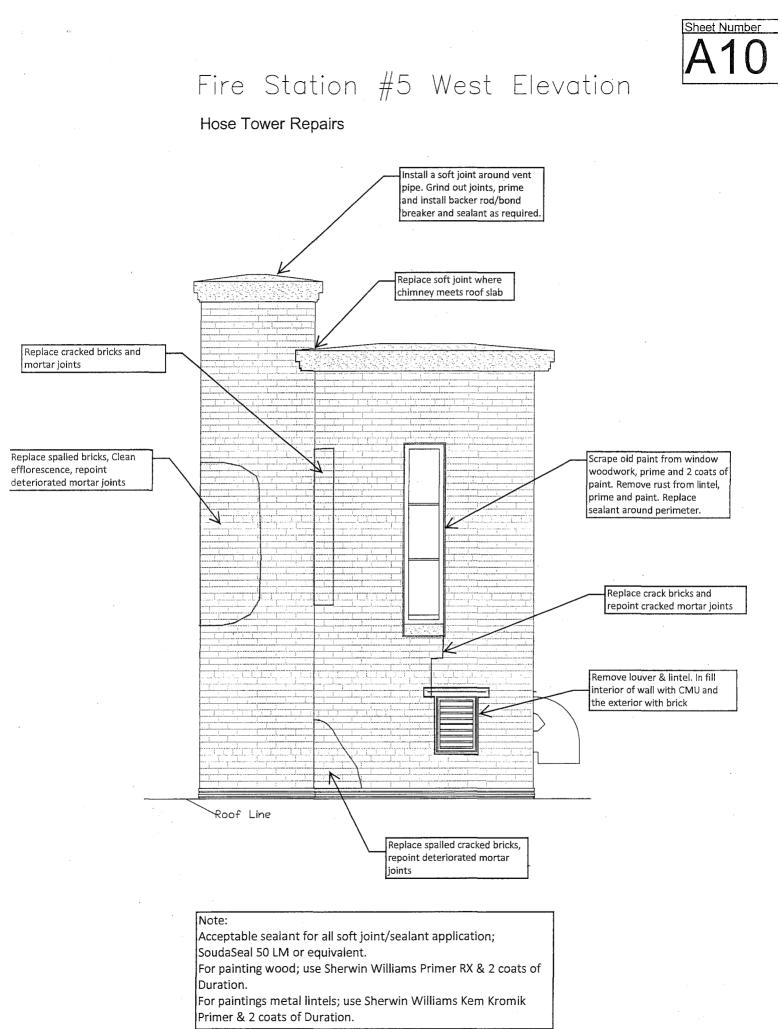
# Fire Station #5 North Elevation

Sheet Numbe

# Hose Tower Repairs



D-50



D-51



June 18, 2014

### Department of Public Works **Engineering Division** Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115 210 Martin Luther King, Jr. Boulevard Madison, Wisconsin 53703 Phone: (608) 266-4751 Fax: (608) 264-9275 engineering@cityofmadison.com www.cityofmadison.com/engineering

Assistant City Engineer Michael R. Dailey, P.E.

Principal Engineers Christina M. Bachmann, P.E. John S. Fahrney, P.E. Gregory T. Fries, P.E. Christopher J. Petykowski, P.E.

Facilities & Sustainability Jeanne E. Hoffman, Manager

> Operations Manager Kathleen M. Cryan

Mapping Section Manager Eric T. Pederson, P.S.

Financial Manager Steven B. Danner-Rivers

> Hydrogeologist Brynn Bemis

# NOTICE OF ADDENDUM 1 FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS

#### CONTRACT NO. 7334

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

#### Item 1

On page D-1, Change the first sentence in section 109.7 from: The contractor shall begin work on or before <u>August 18<sup>th</sup> 14, 2014.</u> To:

The contractor shall begin work on or before August 18th, 2014.

#### Item 2

Install a 2" Carlon<sup>®</sup> Split Duct (or equivalent) conduit around the antenna cables as shown on "Fire Station #5 West Elevation Addendum 1 Photo". Back fill between the antenna cable and the interior of the conduit with foam and apply sealant at the exterior end of the conduit.

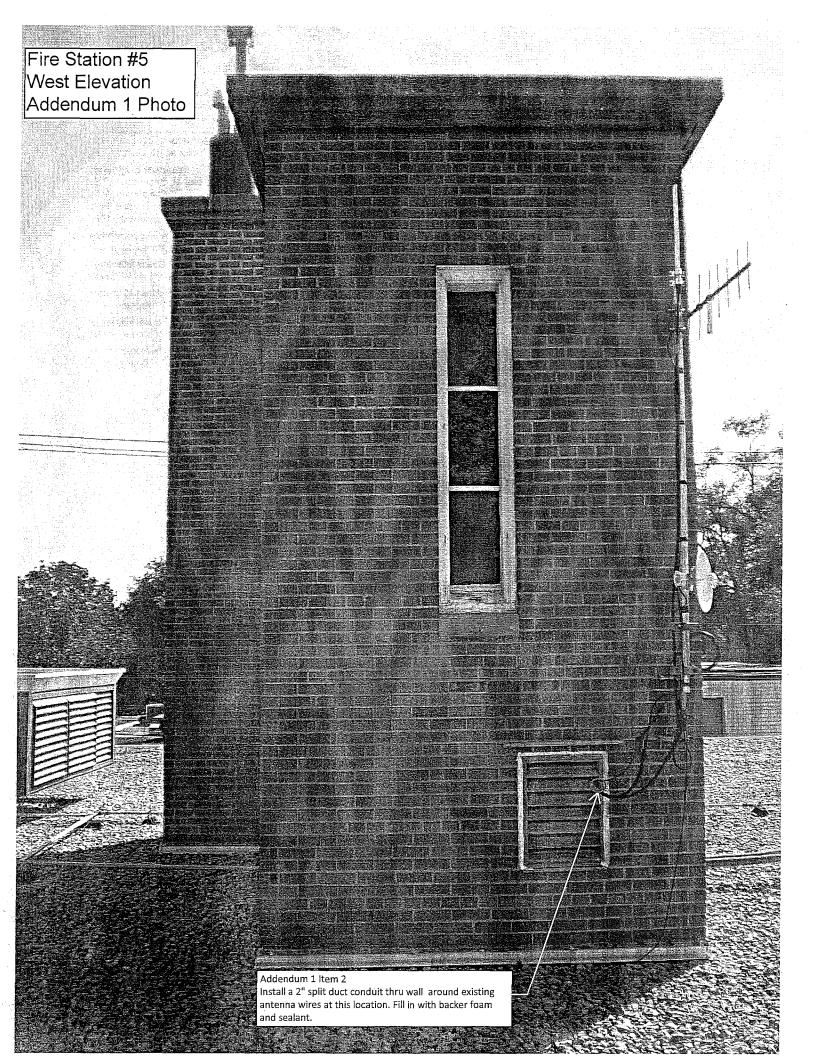
Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

#### http://www.bidexpress.com

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

Robert F. Phillips, P.E., City Engineer



## SECTION E: BIDDERS ACKNOWLEDGEMENT

## FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

- 1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction 2014 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos.
- 2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
- 3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
- 4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. (IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
- 5. I hereby certify that all statements herein are made on behalf of <u>KACHINGNA</u> (onstruction) (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of a partnership consisting of \_\_\_\_\_; an individual trading as

; of the City of <u>MADISON</u> State of <u>COT</u>; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.

SIGNATURE IF ANY Sworn and subscribed to av of 12100 (Notary Public or authorized to administer oaths) My Commission Expire Bidders shall not add any condition or qualifying statements to this Proposal. AS AS AS A REPART OF STARLESS

#### SECTION F: DISCLOSURE OF OWNERSHIP & BEST VALUE CONTRACTING

FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

State of Wisconsin Department of Workforce Development Equal Rights Division Labor Standards Bureau

# Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d) and 103.49(7)(d), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes.

(1)	On the date a contractor submits a bid to or completes negotiations with a state agency or local governmental unit, on a project
	subject to Section 66.0903 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency or local
	governmental unit the name of any "other construction business", which the contractor, or a shareholder, officer or partner of
•	the contractor, owns or has owned within the preceding three (3) years

- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must ONLY be filed, with the state agency or local governmental unit that will be awarding the contract, if both (A) and (B) are met.
  - (A) The contractor, or a shareholder, officer or partner of the contractor.
    - (1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.
    - (2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
  - (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

Other Construction Business						
Not Applicable 📈						
Name of Business		· · · · · · · · · · · · · · · · · · ·				
Street Address or P O Box	City	State Zlp Code				
Name of Business	r					
Street Address or P O Bax	City	State Zip Code				
Name of Business						
Street Address or P O Box	City	State Zip Code				
I hereby state under penalty of perjury that the informatio my knowledge and belief.	n, contained in this document, is true and	accurate according to				
Print the Name of Authorized Officer	· · · · · · · · · · · · · · · · · · ·					
Signature of Authorized Officer Took Backness	Date Signed 6/24/14					
Name of Corporation, Partnership or Sole Proprietorship	JAN V. INC.	······································				
Street Address or PO Box 1201 5. StrocsHTOW Rd	MADELON	State Zip Code WI 53716				

#### If you have any questions call (608) 266-0028

ERD-7777-E (R. 09/2003)

# FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

#### **Best Value Contracting**

The Contractor shall indicate the non-apprenticeable trades used on this contract.

Fire STATION	#5 ROOF	Poer AND	Hose	burk	KepAnes
1	7334				,

- Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.
  - Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.
  - No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.
  - Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.
  - First-time Contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.
  - Contractor has been in business less than one year.
  - Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade
- The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

1

2.

3.

F-2

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- BRICKLAYER
- CARPENTER

CEMENT MASON / CONCRETE FINISHER

CEMENT MASON (HEAVY HIGHWAY)

CONSTRUCTION CRAFT LABORER

DATA COMMUNICATION INSTALLER

ELECTRICIAN

ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE

GLAZIER

HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER

INSULATION WORKER (HEAT & FROST)

- IRON WORKER
- IRON WORKER (ASSEMBLER, METAL BLDGS)
- PAINTER & DECORATOR

PLASTERER

PLUMBER

RESIDENTIAL ELECTRICIAN

ROOFER & WATER PROOFER

SHEET METAL WORKER

SPRINKLER FITTER

STEAMFITTER

STEAMFITTER (REFRIGERATION)

STEAMFITTER (SERVICE)

TAPER & FINISHER

TELECOMMUNICATIONS (VOICE, DATA & VIDEO) INSTALLER-TECHNICIAN

TILE SETTER

BACHMANN CONSNEWLAR COMPANY INC.

# Deadline 06/20/2014 01:00 PM CDT

CDTNumber7334 - Fire Station #5 Roof Door and Hose Tower Repairs

#### Section B: Proposal Page (Notes)

This section is a required document for the bid to be considered complete. There are two methods for completing the proposal page. Method one: The proposal page can be filled out online and submitted to this site to be included with your electronic bid. Method two: The proposal page can be downloaded from the site and submitted by hand to the City of Madison. Either method of submission requires that the proposal page be received by the bid due date.

Section B: Lump Sum Proposal

# Lump Sum Bid\*

\$ 24,230.00

## SECTION G: BID BOND

KNOW ALL MEN BY THESE PRESENT, THAT Bachmann Construction Company, Inc. (a corporation of the State of <u>Wisconsin</u>) (individual), (partnership), hereinafter referred to as the "Principal") and <u>\*\*\*</u>, a corporation of the State of <u>Wisconsin</u> (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

\*\*\* Old Republic Surety Company

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

#### FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

1. If said bid is rejected by the Obligee, then this obligation shall be void.

2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Obligee may accept such bld, and said Surety does hereby waive notice of any such extension. IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

Seal	Bachmann Construction Company, Inc.	Jane 19 20	14
Ву:	Principal	Date	_
	Old Republic Surety Company Name of Surety		
By:	En Acour	6/12/14	
	Elizabeth Mosca, Attorney-in-Fact	Date	

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. <u>2530156</u> for the year <u>2014</u>, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

6/12/14	Elizabeth Mosca
Date	Agent
	6609 University Ave
	Address
	Middleton, WI 53562
	City, State and Zip Code
	608-644-8668
	Telephone Number

#### NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees shall be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.

# REPUBL SURETY COMPANY

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That OLD REPUBLIC SURETY COMPANY, a Wisconsin stock insurance corporation, does make, constitute and appoint:

ANN P MAY, RANA R HUGHEY, JANICE F CLOOTEN, MICHELE A HOLZ, ELIZABETH MOSCA, OF MIDDLETON, WI

its true and lawful Attorney(s)-in-Fact, with full power and authority, not exceeding \$20,000,000, for and on behalf of the company as surety, to execute and deliver and affix the seal of the company thereto (if a seal is required), bonds, undertakings, recognizances or other written obligations in the nature thereof, (other than ball bonds, bank depository bonds, mortgage deficiency bonds, mortgage guaranty bonds, guarantees of installment paper and note guaranty bonds, self-insurance workers compensation bonds guaranteeing payment of benefits, asbestos abatement contract bonds, waste management bonds, hazardous waste remediation bonds or black lung bonds). as follows:

ALL WRITTEN INSTRUMENTS IN AN AMOUNT NOT TO EXCEED AN AGGREGATE OF

FIVE MILLION DOLLARS(\$5,000,000)----- FOR ANY SINGLE

OBLIGATION, REGARDLESS OF THE NUMBER OF INSTRUMENTS ISSUED FOR THE OBLIGATION

and to bind OLD REPUBLIC SURETY COMPANY thereby, and all of the acts of said Attorneys-in-Fact, pursuant to these presents, are ratified and confirmed. This document is not valid unless printed on colored background and is multi-colored. This appointment is made under and by authority of the board of directors at a special meeting held on February 18, 1982. This Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolutions adopted by the board of directors of the OLD REPUBLIC SURETY COMPANY on February 18, 1982.

RESOLVED that, the president, any vice-president, or assistant vice president, in conjunction with the secretary or any assistant secretary, may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the company to execute and deliver and affix the seal of the company to bonds, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any Power of Attorney previously granted to such person.

- RESOLVED FURTHER, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the Company (i) when signed by the president, any vice president or assistant vice president, and attested and sealed (if a seal be required) by any secretary or assistant secretary: or
- (ii) when signed by the president, any vice president or assistant vice president, secretary or assistant secretary, and countersigned and sealed (if a seal be required) by a duly authorized attorney-in-fact or agent; or
- (iii) when duly executed and sealed (if a seal be required) by one or more attorneys-in-fact or agents pursuant to and within the limits of the authority evidenced by the Power of Attorney issued by the company to such person or persons.

RESOLVED FURTHER, that the signature of any authorized officer and the seal of the company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the company; and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, OLD REPUBLIC SURETY COMPANY has caused these presents to be signed by its proper officer, and its corporate seal to be **JANUARY**, 2014. affixed this 6TH day of



President

Alan Pavlic

12

STATE OF WISCONSIN. COUNTY OF WAUKESHA-SS

6TH day of On this

JANUARY, 2014 , personally came before me, , to me known to be the individuals and officers of the OLD REPUBLIC SURETY COMPANY who executed the above Phyllis M. Johnson instrument, and they each acknowledged the execution of the same, and being by me duly sworn, did severally depose and say; that they are the said officers of the corporation aforesaid, and that the seal affixed to the above instrument is the seal of the corporation, and that said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority of the board of directors of said corporation



Notary Public

OLD REPUBLIC SURETY COMPANY

and and and

9/28/2014 My commission expires: (Expiration of notary commission does not invalidate this instrument)

Assistant Sec

CERTIFICATE

24-5330

I, the undersigned, assistant secretary of the OLD REPUBLIC SURETY COMPANY, a Wisconsin corporation, CERTIFY that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore, that the Resolutions of the board of directors set forth in the Power of Attorney, are now in force.

Signed and sealed at the City of Brookfield, WI this



SCHWARZ INSURANCE AGENCY INC

THIS DOCUMENT HAS A COLORED BACKGROUND AND IS MULTI-COLORED ON THE FACE. THE COMPANY LOGO APPEARS ON THE BACK OF THIS DOCUMENT AS A WATERMARK. IF THESE FEATURES ARE ABSENT, THIS DOCUMENT IS VOID.

## SECTION H: AGREEMENT

THIS AGREEMENT made this 24 day of 327 in the year Two Thousand and Fourteen between <u>BACHMANN CONSTRUCTION CO., INC.</u> hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted <u>JULY 15, 2014</u>, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. Scope of Work. The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

## FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

- 2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion <u>SEE SPECIAL PROVISIONS</u>, the rate of progress and the time of completion being essential conditions of this Agreement.
- 3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of <u>TWENTY-FOUR THOUSAND TWO</u> <u>HUNDRED THIRTY</u> (\$24,230.00) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.

#### 4. Wage Rates for Employees of Public Works Contractors

**General and Authorization.** The Contractor shall compensate its employees at the prevailing wage rate in accordance with section 66.0903, Wis. Stats., DWD 290 of the Wisconsin Administrative Code and as hereinafter provided unless otherwise noted in Section D: Special Provisions, Subsection 102.10 – Minimum Rate of Wage Scale.

"Public Works" shall include building or work involving the erection, construction, remodeling, repairing or demolition of buildings, parking lots, highways, streets, bridges, sidewalks, street lighting, traffic signals, sanitary sewers, water mains and appurtenances, storm sewers, and the grading and landscaping of public lands.

"Building or work" includes construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work, except for the delivery of mineral aggregate such as sand, gravel, bituminous asphaltic concrete or stone which is incorporated into the work under contract with the City by depositing the material directly in final place from transporting vehicle.

"Erection, construction, remodeling, repairing" means all types of work done on a particular building or work at the site thereof in the construction or development of the project, including without limitation, erecting, construction, remodeling, repairing, altering, painting, and decorating, the transporting of materials and supplies to or from the building or work done by the employees of the Contractor, Subcontractor, or Agent thereof, and the manufacturing or furnishing of

H-1

materials, articles, supplies or equipment on the site of the building or work, by persons employed by the Contractor, Subcontractor, or Agent thereof.

"Employees working on the project" means laborers, workers, and mechanics employed directly upon the site of work.

"Laborers, Workers, and Mechanics" include pre-apprentices, helpers, trainees, learners and properly registered and indentured apprentices but exclude clerical, supervisory, and other personnel not performing manual labor.

**Establishment of Wage Rates.** The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate is attached hereto.

**Workforce Profile.** The Contractor shall, at the time of signature of the contract, notify the City Engineer in writing of the names and classifications of all the employees of the Contractor, Subcontractors, and Agents proposed for the work. In the alternative, the Contractor shall submit in writing the classifications of all the employees of the Contractor, Subcontractors and Agents and the total number of hours estimated in each classification for the work. This workforce profile(s) shall be reviewed by the City Engineer who may, within ten (10) days, object to the workforce profile(s) as not being reflective of that which would be required for the work. The Contractor may request that the workforce profile, or a portion of the workforce profile, be submitted after the signature of the contract but at least ten (10) days prior to the work commencing. Any costs or time loss resulting from modifications to the workforce profile as a result of the City Engineer's objections shall be the responsibility of the Contractor.

**Payrolls and Records.** The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of all the employees who work on the contract, including the employees of the Contractor's subcontractors and agents. Such weekly payroll records must include the required information for all City contracts and all other contracts on which the employee worked during the week in which the employee worked on the contract. The Contractor shall also keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. The records shall set forth the full weekly wages earned by each employee and the actual hourly wage paid to the employee.

The Contractor shall submit the weekly payroll records, including the records of the Contractor's subcontractors and agents, to the City Engineer for every week that work is being done on the contract. The submittal shall be within twenty-one (21) calendar days of the end of the Contractor's weekly pay period.

Employees shall receive the full amounts accrued at the time of the payment, computed at rates not less than those stated in the prevailing wage rate and each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to the employee.

An employee's classification shall not be changed to a classification of a lesser rate during the contract. If, during the term of the contract, an employee works in a higher pay classification than the one which was previously properly assigned to the employee, then that employee shall be considered to be in the higher pay classification for the balance of the contract, receive the appropriate higher rate of pay, and she/he shall not receive a lesser rate during the balance of the

contract. For purposes of clarification, it is noted that there is a distinct difference between working in a different classification with higher pay and doing work within a classification that has varying rates of pay which are determined by the type of work that is done within the classification. For example, the classification "Operating Engineer" provides for different rates of pay for various classes of work and the Employer shall compensate an employee classified as an "Operating Engineer" based on the highest class of work that is done in one day. Therefore, an "Operating Engineer's" rate may vary on a day to day basis depending on the type of work that is done, but it will never be less than the base rate of an "Operating Engineer". Also, as a matter of clarification, it is recognized that an employee may work in a higher paying classification merely by chance and without prior intention, calculation or design. If such is the case and the performance of the work is truly incidental and the occurrence is infrequent, inconsequential and does not serve to undermine the single classification principle herein, then it may not be required that the employee be considered to be in the higher pay classification and receive the higher rate of pay for the duration of the contract. However, the Contractor is not precluded or prevented from paying the higher rate for the limited time that an employee performs work that is outside of the employee's proper classification.

Questions regarding an employee's classification, rate of pay or rate of pay within a classification, shall be resolved by reference to the established practice that predominates in the industry and on which the trade or occupation rate/classification is based. Rate of pay and classification disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determination by appropriate recognized trade unions operating within the City of Madison.

The Contractor, its Subcontractors and Agents shall submit to interrogation regarding compliance with the provisions of this ordinance.

Mulcting of the employees by the Contractor, Subcontractor, and Agents on Public Works contracts, such as by kickbacks or other devices, is prohibited. The normal rate of wage of the employees of the Contractor, Subcontractor, and Agents shall not be reduced or otherwise diminished as a result of payment of the prevailing wage rate on a public works contract.

**Hourly contributions.** Hourly contributions shall be determined in accordance with the prevailing wage rate and with DWD. 290.01(10), Wis. Admin. Code.

**Apprentices and Subjourney persons.** Apprentices and sub journeypersons performing work on the project shall be compensated in accordance with the prevailing wage rate and with DWD 290.02, and 290.025, respectively, Wis. Admin. Code.

**Straight Time Wages.** The Contractor may pay straight time wages as determined by the prevailing wage rate and DWD 290.04, Wis. Admin. Code.

**Overtime Wages.** The Contractor shall pay overtime wages as required by the prevailing wage rate and DWD 290.05, Wis. Admin. Code.

**Posting of Wage Rates and Hours.** A clearly legible copy of the prevailing wage rate, together with the provisions of Sec. 66.0903(10)(a) and (11)(a), Wis. Stats., shall be kept posted in at least one conspicuous and easily accessible place at the project site by the Contractor and such notice shall remain posted during the full time any laborers, workers or mechanics are employed on the contract.

**Evidence of Compliance by Contractor.** Upon completion of the contract, the Contractor shall file with the Department of Public Works an affidavit stating:

a. That the Contractor has complied fully with the provisions and requirements of Sec. 66.0903(3), Wis. Stats., and Chapter DWD 290, Wis. Admin. Code; the Contractor has received evidence of compliance from each of the agents and subcontractors; and the

names and addresses of all of the subcontractors and agents who worked on the contract.

That full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefore; where these records will be kept and the name, address and telephone number of the person who will be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

**Evidence of Compliance by Agent and Subcontractor.** Each agent and subcontractor shall file with the Contractor, upon completion of their portion of the work on the contract an affidavit stating that all the provisions of Sec. 66.0903(3), Wis. Stats., have been fully complied with and that full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefore; where these records shall be kept and the name, address and telephone number of the person who shall be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Failure to Comply with the Prevailing Wage Rate. If the Contractor fails to comply with the prevailing wage rate, she/he shall be in default on the contract.

Affirmative Action. In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

b.

5.

## Articles of Agreement Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national original and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

#### Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

## Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

#### Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

#### Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

#### Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.

2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.

3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or five thousand dollars (\$5,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

#### Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

#### Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

## FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused these presents to be sealed with its corporate seal and to be subscribed by its Mayor and City Clerk the day and year first above written.

Countersigned: Witness Date Date Witness

## **BACHMANN CONSTRUCTION CO., INC.**

Company Name President Date Secretar

## CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability

Approved as to form: that will accrue under this contract. Finance Director ¢ity Attorney Signed this day of Date Witness Mayor Ph 8-6-2014 Witness City Clerk Date

## SECTION I: PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we <u>BACHMANN CONSTRUCTION CO., INC.</u> as principal, and <u>Old Republic Surety Company</u>

Company of <u>Wisconsin</u> as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of <u>TWENTY-FOUR THOUSAND TWO HUNDRED THIRTY</u> (\$24,230.00) Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

## FIRE STATION #5 ROOF DOOR AND HOSE TOWER REPAIRS CONTRACT NO. 7334

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this <u>24th</u> day c	of July, 2014		
Countersigned: Pretti Barether Witness	BACHMANN CONSTRUCTION CO., INC. Company Name (Brincipal) Seal		
Secretary Approved as to form:	Old Republic Surety Company		
City Attorney	Surety Seal Salary Employee Commission By Attorney-inFact, Elizabeth Mosca		
This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. <u>2530156</u> for the year 20 <u>14</u> , and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.			
July 24, 2014 Date	Agent Signature		

# D REPUBLIC SURETY COMPANY

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That OLD REPUBLIC SURETY COMPANY, a Wisconsin stock insurance corporation, does make, constitute and appoint:

ANN P MAY, RANA R HUGHEY, JANICE F CLOOTEN, MICHELE A HOLZ, ELIZABETH MOSCA, OF MIDDLETON, WI

its true and lawful Attorney(s)-in-Fact, with full power and authority, not exceeding \$20,000,000, for and on behalf of the company as surety, to execute and deliver and affix the seal of the company thereto (if a seal is required), bonds, undertakings, recognizances or other written obligations in the nature thereof, (other than bail bonds, bank depository bonds, mortgage deficiency bonds, mortgage guaranty bonds, guarantees of installment paper and note guaranty bonds, self-insurance workers compensation bonds guaranteeing payment of benefits, asbestos abatement contract bonds, waste management bonds, hazardous waste remediation bonds or black lung bonds), as follows:

ALL WRITTEN INSTRUMENTS IN AN AMOUNT NOT TO EXCEED AN AGGREGATE OF

FIVE MILLION DOLLARS(\$5,000,000)------ FOR ANY SINGLE

OBLIGATION, REGARDLESS OF THE NUMBER OF INSTRUMENTS ISSUED FOR THE OBLIGATION.

and to bind OLD REPUBLIC SURETY COMPANY thereby, and all of the acts of said Attorneys-in-Fact, pursuant to these presents, are ratified and confirmed. This document is not valid unless printedon colored background and is multi-colored. This appointment is made under and by authority of the board of directors at a special meeting held on February 18, 1982. This Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolutions adopted by the board of directors of the OLD REPUBLIC SURETY COMPANY on February 18, 1982.

RESOLVED that, the president, any vice-president, or assistant vice president, in conjunction with the secretary or any assistant secretary, may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the company to execute and deliver and affix the seal of the company to bonds, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any Power of Attorney previously granted to such person.

- RESOLVED FURTHER, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the Company (i) when signed by the president, any vice president or assistant vice president, and attested and sealed (if a seal be required) by any secretary or assistant secretary; or
- (ii) when signed by the president, any vice president or assistant vice president, secretary or assistant secretary, and countersigned and sealed (if a seal be required) by a duly authorized attorney-in-fact or agent; or
- (iii) when duly executed and sealed (if a seal be required) by one or more attorneys-in-fact or agents pursuant to and within the limits of the authority evidenced by the Power of Attorney issued by the company to such person or persons.

RESOLVED FURTHER, that the signature of any authorized officer and the seal of the company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the company; and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, OLD REPUBLIC SURETY COMPANY has caused these presents to be signed by its proper officer, and its corporate seal to be affixed this 6TH day of JANUARY, 2014.

hyllic Mathins



Alan Pavlic

OLD REPUBLIC SURETY COMPANY

and

STATE OF WISCONSIN, COUNTY OF WAUKESHA-SS

day of JANUARY, 2014 , personally came before me, \_ On this

, to me known to be the individuals and officers of the OLD REPUBLIC SURETY COMPANY who executed the above Phyllis M. Johnson instrument, and they each acknowledged the execution of the same, and being by me duly sworn, did severally depose and say; that they are the said officers of the corporation aforesaid, and that the seal affixed to the above instrument is the seal of the corporation, and that said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority of the board of directors of said corporation.



Notary Public

9/28/2014 My commission expires:

(Expiration of notary commission does not invalidate this instrument)

#### CERTIFICATE

I, the undersigned, assistant secretary of the OLD REPUBLIC SURETY COMPANY, a Wisconsin corporation, CERTIFY that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore, that the Resolutions of the board of directors set forth in the Power of Attorney, are now in force.

24-5330



Signed and sealed at the City of Brookfield, WI this 24

Assistant Seci

SCHWARZ INSURANCE AGENCY INC

THIS DOCUMENT HAS A COLORED BACKGROUND AND IS MULTI-COLORED ON THE FACE. THE COMPANY LOGO APPEARS ON THE BACK OF THIS DOCUMENT AS A WATERMARK. IF THESE FEATURES ARE ABSENT, THIS DOCUMENT IS VOID

## SECTION J: PREVAILING WAGE RATES

## NOT APPLICABLE