		SECTION 00 43 43 WAGE RATES FORM
PART	1 – GE	NERAL
	1.1.	SUMMARY
-	1.2.	RELATED SPECIFICATIONS
PART	2 – PR	ODUCTS – NOT USED
PART	3 - EXI	ECUTION
3	3.1.	GENERAL REQUIREMENTS
3	3.2.	GENERAL CONTRACTORS RESPONSIBILITIES
<u>PART</u>	1 – GE	ENERAL
1.1.	SUN	IMARY
	A.	The Reimbursable Hourly Worksheet is a contractor provided document that indicates the basic rate of pay, fringe benefits, and each companies cost of required insurance for all Trades and Classifications that will be performing productive labor during the execution of this contract.
		 Rates shall be similar to recognized rates published by the Bureau of Labor Statistics, Associated Gen Contractors (AGC), Associated Builders and Contractors (ABC), appropriate union contracts, and othe similar organizations or documents.
	В.	The Reimbursable Labor Rate Worksheet shall provide the basis for labor rates being used on Change Order Request forms.
1.2.	REL	ATED SPECIFICATIONS
	Α.	Section 01 26 57 Change Order Request
	В.	Section 01 29 76 Progress Payment Procedures
	C.	Section 01 31 23 Project Management Web Site (SharePoint)
	D.	Section 01 32 19 Submittals Schedule
PART	2 – PR	RODUCTS – NOT USED
PART	3 - EX	ECUTION
3.1.	GEN	IERAL REQUIREMENTS
	Α.	Prior to the Pre-Construction Meeting the City Project Manager (CPM) or the City Construction Manager (CC shall provide the GC a copy of the <i>Reimbursable Labor Rate Worksheet.xls</i> .
		1. See the last page of this specification for an example of the worksheet.
	В.	The GC shall provide all subcontractors that will be performing productive labor during the execution of this
	υ.	contract with additional copies of the worksheet as needed.
	C.	All contractors shall be required to fill out and submit completed worksheets for all Trades and Classification
	0.	labor that will be performing productive labor during the execution of this contract.
2 2	CEN	IERAL CONTRACTORS RESPONSIBILITIES
3.2.	-	
	A.	The GC shall consolidate all Trades and Classifications into one master Excel Workbook of all trades. The GC shall provide the combined workbook as required by Section 1.6 of Specification 01 32 19 Submittals
	В.	Schedule for review and approval by the Owners Representatives.
		1. Submittal shall be an Exported PDF of the completed Excel Workbook.
		a. As an Exported PDF the individual worksheets will be bookmarked and the document will be
		searchable for easy reference.
	C.	The GC shall only use the rates posted in the approved submittal throughout the execution of this contract.
	с.	The design only use the faces posted in the approved submittar throughout the execution of this contract.

1 2

Reimbursable Hourly Rate Worksheet

(see bottm of page for instructions)

Project Name: Project Location: Project Number: Contractor: Rates are base following docu	d on the				_		rpenter	
Classification:		Foreman	Journeyman	Laborer	Apprt 1	Other	Other	Other
Base Rate	(BR)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Vacation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Health	h Insurance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Pension	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Apprenticeship		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Sub-total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BR Sub-t	total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Work. Comp	% of BR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Gen Liability	% of BR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WI Unemploy	% of BR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fed Unemploy	% of BR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FICA	% of BR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Sub-total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL C	OST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Enter YOUR percentage of base rate in the

column belo

umn below.	
% of BR	
0	- Work. Comp
0	- Gen Liability
0	- WI Unemploy
0.6	- Fed Unemploy
7.65	- FICA

Form Instructions:

 Provide a work sheet for ALL Trade Classifications that will be performing on site productive labor during the execution of this project.

Responsible contractor to complete only boxes that are shaded, all non-shaded boxes are formula driven.

 Contractor shall provide the name of the source used for these rates. (union contract, Bureau of Labor and Statistices, AGC, ABC, etc.) and be prepared to provide copies if so requested.

		SECTION 00 62 76.13 SALES TAX FORM
PART	1 – GF	NERAL
		SUMMARY
_		RELATED SPECIFICATION SECTIONS
		TAX EXEMPT FORM
		ODUCTS – THIS SECTION NOT USED
		ECUTION – THIS SECTION NOT USED
PART	1 – GE	ENERAL CONTRACTOR C
1.1.	SUM	IMARY
	A.	The City of Madison is a qualifying tax exempt entity in the State of Wisconsin.
	д. В.	The Contractor shall refer to Section 102.9 – Bidders Understanding of the City of Madison Standard
	Б.	Specifications for Public Works Construction for more information on <u>Tax Exempt Status</u> .
	C.	This project constructs or remodels facilities owned by the City of Madison in Madison, Wisconsin.
	C.	This project constructs of remotiels facilities owned by the City of Madison III Madison, WISCONSIN.
1.2.	DEI /	ATED SPECIFICATION SECTIONS
1.2.		Parts of this specification will reference articles within "The City of Madison Standard Specifications for Public
	Α.	Works Construction".
		1. Use the following link to access the Standard Specifications web page:
		http://www.cityofmadison.com/business/pw/specs.cfm
		a. Click on the "Part" chapter identified in the specification text. For example if the specification
		says "Refer to City of Madison Standard Specification <u>2</u> 10.2" click the link for Part II, the Part I
		PDF will open.
		b. Scroll through the index of Part II for specification 210.2 and click the text link which will take
		to the referenced text.
1.3.	τλν	EXEMPT FORM
1.5.	A.	The Contractor can access Wisconsin Sales and Use Tax Exemption Certificates (form S-211, Wisconsin
	А.	Department of Revenue) from the City of Madison Finance website.
		1. City of Madison tax exempt information and signature by Purchasing Supervisor is already completed
		 City of Madison tax exempt information and signature by Purchasing Supervisor is already completed Website: <u>http://www.cityofmadison.com/employeenet/finance/purchasing</u>
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<u>24RT :</u>	<u>2 – PR</u>	 City of Madison tax exempt information and signature by Purchasing Supervisor is already completed Website: <u>http://www.cityofmadison.com/employeenet/finance/purchasing</u>
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		SECTION 01 26 13 REQUEST FOR INFORMATION (RFI)
PART	1 – G	ENERAL
1	l.1.	SUMMARY
1	l.2.	RELATED SPECIFICATIONS
1.3.		PERFORMANCE REQUIREMENTS
	L.4.	QUALITY ASSURANCE
PART	2 – PI	RODUCTS
2	2.1.	REQUEST FOR INFORMATION FORM
PART	3 - EX	KECUTION
3	3.1.	CONTRACTOR INITIATED RFI
3	3.3.	RFI RESPONSES
3	3.4.	COMMENCEMENT OF WORK RELATED TO AN RFI
PART	<u>1 – G</u>	ENERAL
1.1.	SUN	MMARY
	Α.	Contractors shall use the RFI form/process to request additional information or clarification regarding the construction documents.
	В.	All RFI documentation will be processed through the through the Construction Administration-Request for
		Information Library on the Project Management Web Site (PMWS).
1.2.	REL	LATED SPECIFICATIONS
	Α.	Section 01 26 46 Construction Bulletin (CB)
	В.	Section 01 26 57 Change Order Request (COR)
	C.	Section 01 26 63 Change Order (CO)
	D.	Section 01 31 23 Project Management Web Site (PMWS)
	Ε.	Section 01 91 00 Commissioning
1.3.	PFR	RFORMANCE REQUIREMENTS
	A.	RFI issues initiated by any contractor shall be done through the General Contractor (GC).
		1. RFIs submitted by any Sub-contractor under the GCs control shall be returned with no response.
	В.	Submit a new RFI for each issue. Only multiple questions that are of a similar nature may be combined into on
		RFI shall be allowed and responded to.
1.4.	QU	ALITY ASSURANCE
	Α.	The GC shall be responsible for all of the following:
		1. Ensure that any request for additional information is valid and the information being requested is not
		addressed in the construction documents.
		2. Ensure that all requests are clearly stated and the RFI form is completely filled out.
		3. Ensure that all Work associated an RFI response is carried out as intended.
	Β.	The PA shall be responsible for the following:
		1. Ensure that all responses to contractor initiated RFIs are properly responded to in a timely fashion.
		a. The CPM, Owner, consulting staff, and other City staff shall be responsible for the initial review
		the RFI. The PA shall be responsible for codifying all consultant and Owner/City staff comment
		into a unified RFI response.
<u>PART</u>	<u>2 – P</u>	PRODUCTS
2.1.	PEC	QUEST FOR INFORMATION FORM
2.1.	A.	The RFI form is located on the Project Management Web Site. The GC, PA, or CPM as appropriate shall click th
	д.	link in the left margin of the project web site opening a new form. Project information is pre-loaded, provide
		additional information as indicated below in the execution to complete the form.
		additional information as indicated below in the execution to complete the form.
ΡΔ RT	3 - F)	XECUTION
	J - L/	

1	3.1.	CONT	RACTOR INITIATED RFI
2		Α.	Immediately on discovery of the need for additional information or interpretation of the Contract Documents
3			any contractor may initiate an RFI for additional information or clarification through the GC.
4		В.	The GC shall select the "Submit an RFI" link on the Project Management Web Site and completely fill out the
5			form as follows:
6			1. Contract related information will be automatically populated on the form.
7			2. Thoroughly explain the issue at hand, provide backup information (photographs, sketches, drawings,
8			data, etc) as necessary, and clearly state the question or problem that requires a resolution. Combine
9			like or related issues but do not include multiple issues on one form.
10			a. Example. If a duct interferes with other critical piping and electrical work include all issues into
11			one RFI.
12			b. Example. If you have a question regarding the chiller and another regarding toilet partitions
13			create separate RFIs.
14			3. Check all relevant boxes for trades affected. This will assist the design team in determining who should
15			be reviewing the RFI.
16		C.	Upon completing the RFI click the "Submit" button. The PMWS software will automatically route the RFI to the
17			appropriate reviewers.
18			
19	3.3.	RFI RE	SPONSES
20		Α.	Responses to simple RFI issues shall use the response section of the RFI form and shall be completed within five
21			(5) working days of the RFI form being submitted.
22		В.	Responses to more complex issues may require additional time or may require a Construction Bulletin to be
23			published. The initial RFI shall be responded to within five (5) working days stating that the RFI is being
24			reviewed and provide an estimated date for the response.
25		C.	The following GC generated RFIs will be returned without action:
26			1. Requests for approval of submittals
27			2. Requests for approval of substitutions
28			3. Requests for approval of Contractor's means and methods.
29			4. Requests for coordination information already indicated in the Contract Documents.
30			5. Requests for adjustments in the Contract Time or the Contract Sum.
31			6. Requests for interpretation of A/E's actions on submittals.
32			7. Incomplete RFI or inaccurately prepared RFI.
33			
34	3.4.		MENCEMENT OF WORK RELATED TO AN RFI
35		Α.	The GC shall only proceed with the Work of an RFI when additional information is not required.
36		В.	The GC shall not proceed with any Work associated with an RFI while it is under review.
37		C.	The GC shall not proceed with any Work associated with an RFI that clearly states a CB will be issued in response
38			to the RFI.
39		D.	The GC will be required to immediately remove and replace unauthorized Work and all costs required to
40			conform to the Contract Documents shall be borne by the GC.
41			
42			
43 44			END OF SECTION
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1			SECTION 01 26 46			
2 3	CONSTRUCTION BULLETIN (CB)					
5 4	PART	1 – G	ieneral			
5		- C	SUMMARY			
6	1	L.2.	RELATED SPECIFICATIONS			
7		L.3.	PERFORMANCE REQUIREMENTS			
8		L.4.	QUALITY ASSURANCE			
9	PART	2 – P	RODUCTS			
10		2.1.	CONSTRUCTION BULLETIN FORM			
11	PART	3 - EX	2 XECUTION			
12	Э	3.1.	WRITING THE CONSTRUCTION BULLETIN			
13	Э	3.2.	EXECUTING THE CONSTRUCTION BULLETIN			
14						
15	PART	1 – 6	<u>SENERAL</u>			
16						
17	1.1.	SU	MMARY			
18		Α.	Construction Bulletins (CB) are formal published construction documents that modify the original contract bid			
19			documents after construction has commenced. CBs may be published for many reasons, including but not			
20			limited to the following:			
21			1. Clarification of existing construction documents including specifications, plans, and details			
22			2. Change in product or equipment			
23			3. A response to a Request for Information			
24			4. Change in scope of the contract as either an add or a deduct of work			
25		В.	CBs provide a higher degree of detail in response to a Request for Information (RFI) through directives, revised			
26		_	plans/details, and specifications as necessary.			
27		C.	The CB may change the original contract documents through additions or deletions to the Work.			
28		D.	Where the directives of a CB are significant enough to warrant a Change Order Request (COR) the GC shall use all			
29			information provided in the CB to assemble all required back-up documentation for additions and deletions of			
30		-	materials, labor and other related contract costs for the COR.			
31		Ε.	All CB documentation will be processed through the Construction Administration-Construction Bulletin Library			
32			on the Project Management Web Site (PMWS).			
33 34	1.2.	DEI	LATED SPECIFICATIONS			
54 35	1.2.	A.	Section 01 26 13 Request for Information (RFI)			
36		А. В.	Section 01 26 57 Change Order Request (COR)			
37		Б. С.	Section 01 26 63 Change Order (CO)			
38		D.	Section 01 31 23 Project Management Web Site			
39		Ε.	Section 01 91 00 Commissioning			
40		с.	Section of S1 00 Commissioning			
41	1.3.	PEF	RFORMANCE REQUIREMENTS			
42		A.	Project Architect (PA): The PA shall be the only person authorized to publish a CB as needed for any reason			
43			indicated in section 1.1.A above. The PA shall consult as necessary with any of the following while drafting the			
44			CB and shall confirm final direction with the CPM prior to issuing a CB:			
45			1. City Project manager (CPM)			
46			2. Owner			
47			3. Members of the consulting staff			
48			4. Members of city staff			
49			5. The General Contractor			
50			6. Sub-contractors			
51			7. Commissioning Agent (CxA)			
52		В.	General Contractor: The GC shall be responsible for the following as needed:			
53			1. Executing the directives of the CB when he/she believes that no changes in labor, materials, equipment,			
54			or contract duration will be required for additions or deletions.			
55			2. Submit a COR when he/she believes that a change in labor, materials, equipment or contract duration			
56			will be required for additions or deletions.			
57						

1.4. QUALITY ASSURANCE 1 2 The PA shall be responsible for ensuring the final CB sufficiently provides direction, details, specifications and Α. 3 other information as necessary for the GC to perform the intended Work. 4 Β. The PA shall be responsible for ensuring the final CB is published as expeditiously as practical based on the 5 complexity of the CB being written. CBs that may affect the GC critical path shall be given priority. 6 7 PART 2 – PRODUCTS 8 9 2.1. CONSTRUCTION BULLETIN FORM 10 The CB form is located on the Project Management Web Site. The PA shall click the link in the left margin of the Α. 11 project web site opening a new form. Project information is pre-loaded, the PA only needs to enter information and make attachments as needed to complete the form. 12 13 14 PART 3 - EXECUTION 15 16 3.1. WRITING THE CONSTRUCTION BULLETIN 17 Α. The PA shall draft a CB as needed using the Construction Bulletin form on the Project Management Web Site. 18 The PA and/or consulting staff as necessary shall provide specifications, model numbers and performance 1. 19 data, details and other such information necessary to clearly state the intentions of the CB. 20 2. The consulting staff, CPM, Owner, CxA and other City Staff shall review the draft and recommend 21 changes as needed. 22 3. The PA shall amend the draft as necessary into a final CB for review 23 Β. Once the final CB has been approved the PA shall "Submit" the CB through the Project Management Web Site to 24 the GC. 25 26 3.2. **EXECUTING THE CONSTRUCTION BULLETIN** 27 Α. The GC shall acknowledge receipt of the CB on the Project Management Web Site as instructed in the Tutorial 28 Manual provided to the awarded contractor. 29 Β. The GC shall notify all Sub-contractors of the CB and publish the CB to all field sets of drawings and specifications 30 as appropriate. 31 C. The GC shall execute the directives of the CB or submit COR documentation as necessary during the execution 32 and implementation of the CB. See Specification 01 26 57 Change Order Request (COR) 33 1. 34 35 36 37 END OF SECTION

38

1 2 3		SECTION 01 26 57 CHANGE ORDER REQUESTS (COR)
4	PART 1 – G	ENERAL
5	1.1.	SUMMARY
6	1.1.	RELATED SPECIFICATION SECTIONS
7	1.2.	DEFINITIONS AND STANDARDS
	-	
8	1.4.	CONTRACT EXTENSION
9	1.5.	OVERHEAD AND PROFIT MARKUP
10	1.6.	PERFORMANCE REQUIREMENTS
11	1.7.	QUALITY ASSURANCE
12		RODUCTS
13	2.1.	CHANGE ORDER REQUEST FORM
14	PART 3 - EX	XECUTION
15	3.1.	ESTABLISHING A CHANGE ORDER REQUEST 4
16	3.2.	SUBMIT A CHANGE ORDER REQUEST FORM
17	3.3.	CHANGE ORDER REQUEST REVIEW, APPROVAL, AND PROCESSING5
18	3.4.	EMERGENCY CHANGE ORDER REQUEST
19		
20	<u> PART 1 – C</u>	GENERAL
21		
22	1.1. SU	MMARY
23	Α.	Except in cases of emergency, no changes in the Work required by the Contract Documents may be made
24		by the General Contractor (GC) without having prior approval of the City Engineer or his representative.
25	В.	The City may at any time, without invalidating the Contract and without Notice to Sureties, order changes in
26		the Work by written Change Order (CO). Such changes may include additions and/or deletions.
27	C.	Where the City desires to make changes in the Work through use of written Change Order Request (COR), the
28	_	following procedures apply:
29		1. If requested by the City, the GC shall prepare and submit a detailed proposal, including all cost and time
30		adjustments to which the GC believes it will be entitled if the change proposed is incorporated into the
31		Contract. The City shall be under no legal obligation to issue a Change Order for such proposal.
32		2. The parties shall attempt in good faith to reach agreement on the adjustments needed to the Contract to
33		properly incorporate the proposed change(s) into the Work. In the event that the parties agree on such
34		adjustments, the City may issue a Change Order and incorporate such changes and agreed to
35		adjustments, if any.
36		3. In some instances, it may be necessary for the City to authorize Work or direct changes in Work for which
37		no final and binding agreement has been reached and for which unit prices are not applicable. In such
38		cases the following shall apply.
39		a. Upon written request by the City, the GC shall perform proposed Work
40		b. The cost of such change may be determined in accordance with this specification.
40 41		
42		the Work to be performed by City forces or to hire others to complete the Work. Such action on
43		the part of the City shall not be the basis of a claim by the GC for failure to allow it to perform the
44	5	changed Work.
45	D.	Where changes in the Work are made by the City through use of a force account basis, the GC shall as soon as
46		practicable, and in no case later than ten (10) working days from the receipt of such order, unless another time
47		period has been agreed to by both parties, give the City written Notice, stating:
48		1. The date, circumstances and source of the extra work; and,
49		2. The cost of performing extra work described by such Order, if any; and,
50		3. Effect of the order on the required completion date of the Project, if any.
51	Ε.	The giving of each Notice by the GC as prescribed by this specification, shall be a requirement to liability of the
52		City for payment of any additional costs incurred by the GC in implementing changes in the Work. Under this
53		specification, no order or statement of the City shall be treated as a Change Order, or shall entitle the GC to an
54		equitable adjustment of the terms of this Contract or damages for costs incurred by the GC on any activity for
55		which the Notice was not given.
56	F.	In the event Work is required due to an emergency as described in this specification the GC must request an
57		equitable adjustment as soon as practicable, and in no case later than ten (10) working days of the
58		commencement of such emergency.

1		G.	All GC requests for equitable adjustment shall be submitted to the CPM per the specifications below. Such
2			requests shall set forth with specificity the amount of and reason(s) for the proposed adjustment and shall be
3			accompanied by supporting information and documents.
4		Н.	No adjustment of any kind shall be made to this Contract, if asserted by the GC for the first time, after the date
5			of final payment.
6		١.	This specification shall be used by the GC when preparing documentation for any COR to ensure each has been
7			properly and completely filled out as required by the City of Madison.
8		J.	All COR documentation will be processed through the Construction Administration-Change Order Request
9			Library on the Project Management Web Site (PMWS).
10			
11	1.2.	RELA	TED SPECIFICATION SECTIONS
12		Α.	Section 01 26 13 Request for Information (RFI)
13		В.	Section 01 26 46 Construction Bulletins (CB)
14		C.	Section 01 26 63 Change Order (CO)
15		D.	Section 01 31 23 Project Management Web Site
16		Ε.	Section 01 91 00 Commissioning
17		F.	Parts of this specification will reference articles within "The City of Madison Standard Specifications for Public
18			Works Construction".
19			 Use the following link to access the Standard Specifications web page:
20			http://www.cityofmadison.com/business/pw/specs.cfm
21			a. Click on the "Part" chapter identified in the specification text. For example if the specification
22			says "Refer to City of Madison Standard Specification ${f 2}$ 10.2" click the link for Part II, the Part II
23			PDF will open.
24			b. Scroll through the index of Part II for specification 210.2 and click the text link which will take you
25			to the referenced text.
26			
27	1.3.	DEFIN	VITIONS AND STANDARDS
28		Α.	LABOR: The amount of time and cost associated with the performance of human effort for a defined scope of
29			Work. Labor is further defined as follows:
30			1. Labor rate is the total hourly rate which includes the basic rate of pay, fringe benefits plus each
31			company's cost of required insurance, also referred to as a reimbursable labor rate.
32			2. Unit labor is the labor hours anticipated to install the corresponding unit of material.
33			3. Labor cost is the labor hours multiplied by the hourly labor rates.
34		В.	MATERIAL: Actual material cost is the amount paid, or to be paid, by the GC for materials, supplies and
35			equipment entering permanently into the Work, including cost of transportation and applicable taxes. The cost
36		-	shall not exceed the usual and customary cost for such items available in the geographical area of the project
37		C.	LARGE TOOLS AND MAJOR EQUIPMENT: Large tools and major equipment are those with an initial cost greater
38			than \$1,500, whether from the GC or other sources.
39			1. Tool and equipment use and time allowed is only for extra work associated with change orders.
40			a. Rental Rate is the machine cost associated with operating a piece of equipment for a defined
41			length of time (hour, day, week, or month) and shall not exceed the usual and customary amount
42			for such items available in the geographical area of the project.
43			b. Rental cost is the rental rate multiplied by the anticipated duration the equipment shall be
44			required.
45			2. The GC shall provide a breakdown of all rental rates to indicate what items and costs are associated with
46			the rate. Examples of items to include in the breakdown would be fuel consumption, lubrication,
47			maintenance and other similar expenses but not including profit and overhead.
48			3. When large tools and equipment needed for Change Order work are not already at the job site, the
49			actual cost to get the item there is also reimbursable.
50		D.	BOND COST: The cost shall be calculated at 1% of the total proposed change order.
51		Ε.	SUB-CONTRACTOR COSTS: Sub-contractor costs are for those labor, material, and equipment costs required by
52		-	subcontracted specialties to complete the Change Order work.
53		F.	OVERHEAD AND PROFIT Markup: The allowable markup percentage to a COR by the GC and Sub-contractors for
54			overhead and profit. All of the following are expenses associated with overhead and profit and shall not be
55			reimbursable as individual items on any COR:
56			1. CHANGE ORDER PREPARATION: All costs associated with the preparing and processing of the change
57			order.

			,
1			2. DESIGN, ESTIMATING, AND SUPERVISION: All such efforts, unless specifically requested by Owner as
2			additional Work to be documented as a COR or portion thereof.
3			3. INSTALLATION LAYOUT: The layout required for the installation of material and equipment, and the
4			installation design, is the responsibility of the GC.
5			4. SMALL TOOLS AND SUPPLIES: The cost of small hand tools with an initial cost of \$1,500 or less, along
6			with consumable supplies and expendable items such as drill bits, saw blades, gasoline, lubricating or
7			cutting oil, and similar items.
8			5. GENERAL EXPENSE: The general expense, which is those items that are a specific job cost not associated
9			with direct labor and material such as job trailers, foreman truck, and similar items.
10			6. RECORD DRAWINGS: The preparation of record or as-built drawings.
11			7. OTHER COSTS: Any miscellaneous cost not directly assessable to the execution of the Change Order
12			including but not limited to the following:
13			a. All association dues, assessments, and similar items.
14			b. All education, training, and similar items.
15			c. All drafting and/or engineering, unless specifically requested by Owner as additional Work to be
16			documented as a Change Order proposal or portion thereof.
17			d. All other items including but not limited to review, coordination, estimating and expediting, field
18		C	and office supervision, administrative work, etc.
19 20		G.	Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a
20 21			change order.
22	1.4.	CONT	RACT EXTENSION
23	1.4.	A.	The GC shall not assume that every COR will require a Contract Extension. If the GC feels a contract extension is
24		74.	warranted he/she shall provide sufficient scheduling information that shows how the COR being requested
25			impacts the critical path of the project.
26		В.	The City of Madison strongly encourages the GC to explore alternative methods and practices prior to submitting
27		5.	a COR with a request for contract extension.
28			
29	1.5.	OVER	HEAD AND PROFIT MARKUP
30		Α.	Pursuant to the City of Madison Standard Specifications for Public Works Construction, Section 104.7, Extra
31			Work, the following maximum allowable markups shall be strictly enforced on all change orders associated with
32			the execution of this contract.
33			1. The total maximum overhead and profit shall not exceed fifteen percent (15%) of the total costs.
34			2. The total maximum overhead and profit shall be distributed as follows:
35			a. For work performed and materials provided solely by the General Contractor, fifteen percent
36			(15%) of the total costs.
37			b. For work performed and materials provided solely by Sub-contractors and supervised by the
38			General Contractor:
39			i. Supervision of the GC, five percent (5%) of the total Sub-contractor cost.
40			ii. Sub-contractors work and materials ten percent (10%) of the total Sub-contractor cost.
41			
42	1.6.		ORMANCE REQUIREMENTS
43		A.	The GC shall become thoroughly familiar with this specification as it will identify procedures and expenses that
44 45		Б	are or are not allowed under the Change Order and Change Order Request process.
45 46		В.	The GC shall be responsible for all of the following: 1. Carefully reviewing the CB that is associated with the COR.
40 47			 Carefully reviewing the CB that is associated with the COR. Collecting required supporting documentation from all contractors that quantify the need for a COR.
47 48			a. Labor hours and wage rates
48 49			b. Material costs
49 50			c. Equipment costs
51		C.	The following shall apply to establishing prices for labor, materials, and equipment costs:
52		с.	1. Where Work to be completed has previously been established by individual bid items in the contract bid
53			proposal the GC shall use the unit bid prices previously established.
54			 Where Work to be completed was bid as a Lump Sum without individual bid items the GC shall provide a
55			breakdown of all labor, materials, equipment including unit rates and quantities required.
56		D.	The completion date is determined by Owner. The schedule, however, is the responsibility of the GC. Time
57			extensions for extra Work will be considered when a schedule analysis of the critical path shows that the Change
58			Order Request places the Work beyond the completion date stated in the Contract.

1			
2	1.7.	QUAL	ITY ASSURANCE
3		Α.	The GC shall be responsible for ensuring that all COR supporting documentation meets the following
4			requirements prior to completing the COR form on the Project Management Web Site:
5			1. Sufficiently indicates labor, material, and other expenses related to completing the intent of the CB.
6			2. No costs exceed the usual and customary amount for such items available in the geographical area of the
7		-	project, and no costs exceed those established under the contract.
8		В.	The Project Architect (PA), Commissioning Agent (CxA), City Project Manager (CPM), other members of the
9			consulting staff, and city staff shall review all COR requests to ensure that the intent of the CB will be met under
10			the proposal of the COR or request additional information as necessary.
11	DADT		
12	PARI	2 – PRO	<u>DDUCTS</u>
13 14	2.1.	CHAN	GE ORDER REQUEST FORM
14 15	2.1.	A.	The COR form is located on the Project Management Web Site. The GC shall click the link in the left margin of
16		А.	the project web site opening a new form. Follow additional instructions below in the execution section for filling
10			out the form.
18			
19	PART	3 - FXF(CUTION
20	<u></u>		
21	3.1.	ESTAB	BLISHING A CHANGE ORDER REQUEST
22	•	A.	Upon receipt of a Construction Bulletin (CB) where the GC believes a significant change in contract scope
23			warrants the submittal of a COR the GC shall do all of the following within ten (10) working days after receipt of
24			the CB:
25			1. Review the CB with all necessary trades and sub-contractors required by the change in scope.
26			a. Additions or deletions to the contract scope shall be as directed within the CB.
27			b. Additions or deletions of labor and materials shall be determined by the GC based on the
28			directives of the CB.
29			2. Assemble all required back-up documentation for additions and deletions of materials, labor and other
30			related contract costs as previously outlined in this specification.
31			3. Submit a COR request form on the Project Management Web Site.
32		В.	Submitting a COR does not obligate the GC to complete the work associated with the COR nor does it obligate
33			the Owner to approve the COR as a change to the contract.
34			
35	3.2.	SUBM	IIT A CHANGE ORDER REQUEST FORM
36		Α.	This specification shall provide a subject overview only. In depth instructions shall be provided to the awarded
37			Contractor in a PDF Instructional Manual.
38		B.	The GC shall select the "Submit a COR" link on the Project Management Web Site.
39		C.	The software will open a new COR form and the GC shall provide all of the following information:
40			1. DO NOT perform any calculations on this worksheet, only provide the raw data as requested below. All
41			 calculations, totals, and markups shall be computed as described within this specification. Provide a summary description of the COR request, and justification for any requested time extension to
42 43			the contract, indicate the number of calendar days being requested for the extension and add any
44			attachments to the form as needed.
45			 Provide all GC self performance data including all of the following:
46			a. Materials description, quantities, and unit costs.
47			b. Labor hours and rates for all Foremen, Journeymen, and Apprentices by trade.
48			c. Equipment descriptions, quantities, unit costs and rates.
49			 Provide all Sub-contractor data including all of the following:
50			a. Materials description, quantities, and unit costs.
51			b. Labor hours and rates for all Foremen, Journeymen, and Apprentices by trade.
52			c. Equipment descriptions, quantities, unit costs and rates.
53			5. Ensure all calculations performed by the form have been completed correctly. Contact the CPM directly
54			if you suspect an error before hitting the save button.
55		C.	At any time after creating a COR you must at a minimum click "Save as Draft" to save your work.
56		D.	When all data has been entered and verified click on the "Submit COR" button. This will kick off the COR Review
57			and Approval process.
58			

1	3.3.	CHAN	NGE ORDER REQUEST REVIEW, APPROVAL, AND PROCESSING
2		Α.	The PA and CPM shall review all CORs submitted by the GC.
3			1. Additional consulting staff and city staff having knowledge of the components of the COR shall review
4			and advise the PA and CPM as to the accuracy of the items, quantities, and associated costs of the COR as
5			directed by the CB.
6			2. The CPM shall review the COR with the Owner.
7		В.	If required the PA and CPM, shall in good faith, further negotiate the COR with the GC as necessary. All
8			amendments to any COR shall be documented within the Project Management Web Site software.
9		C.	After final review of the COR the CPM and Owner may accept the COR.
10		D.	The CPM shall prepare the COR in the form of an official Board of Public Works Change Order for final review and
11			approval as outlined in Section 01 26 63 Change Order (CO).
12		E.	The GC shall not act upon any accepted COR until it has received final approval through the Public Works process
13			as an official CO to the Work unless instructed to do so by the CPM. Proceeding without the final approval of a
14			fully authorized Change Order is at the GC's own risk.
15			
16	3.4.	EME	RGENCY CHANGE ORDER REQUEST
17		Α.	In the event Work is required due to an emergency as described in the Contract Documents, the GC must
18			request an equitable adjustment as soon as practicable, and in no case later than ten (10) working days of the
19			commencement of such emergency.
20		В.	The GC shall provide full documentation of all labor, materials and equipment used during the period of
21			emergency as part of the COR submittal.
22			
23			
24			
25			END OF SECTION
26			

1 2	SECTION 01 26 63 CHANGE ORDER (CO)							
3								
4	PART 1 – GENERAL							
5		1.1. SUMMARY						
6		1.2. RELATED SPECIFICATION SECTIONS						
7	1.3. BOARD OF PUBLIC WORKS PROCEDURE							
8	PART 2 – PRODUCTS							
9	2.1. CHANGE ORDER FORM							
10		PART 3 - EXECUTION						
11		3.1.	PREPARATION OF THE CHANGE ORDER					
12	3	3.2.	EXECUTION OF THE CHANGE ORDER					
13								
14	PART	1 – G	ENERAL					
15		~						
16	1.1.		VIMARY					
17 18		Α.	Except in cases of emergency, no changes in the Work required by the Contract Documents may be made by the General Contractor (GC) without having prior approval of the City Project Manager (CPM).					
18		В.	The City may at any time, without invalidating the Contract and without Notice to Sureties, order changes in					
20		υ.	the Work by written Change Order. Such changes may include additions and/or deletions.					
21		C.	The Change Order (CO) is a Board of Public Works (BPW) form that is reviewed and approved by a specific					
22			process.					
23		D.	The CO form is typically made up of multiple Change Order Requests (CORs) and/or Bid Items as appropriate					
24			depending on the type of project and how the contract was bid.					
25		E.	All CO documentation shall be processed through the Construction Administration-Change Order Library and					
26			digital workflow on the Project Management Web Site (PMWS).					
27								
28	1.2.	REL	ATED SPECIFICATION SECTIONS					
29		Α.	Section 01 26 13 Request for Information (RFI)					
30		В.	Section 01 26 46 Construction Bulletin (CB)					
31		C.	Section 01 26 63 Change Order Request (COR)					
32		D.	Section 01 31 23 Project Management Web Site					
33		Ε.	Section 01 91 00 Commissioning					
34								
35	1.3.	BO	ARD OF PUBLIC WORKS PROCEDURE					
36		Α.	The Board of Public Works has a very explicit procedure for the review and approval of all change orders					
37			associated with any Public Works Contract as follows:					
38			1. The Supervisory Chain of the CPM shall review and approve any CO under \$10,000 provided it does not					
39			include either of the following:					
40			a. The CO does not request a time extension to the contract.					
41			b. The CO does not cause the contract contingency sum to be exceeded.					
42			2. The Board of Public Works shall review and approve any CO that requires any of the following:					
43			a. Any CO over \$10,000.					
44			b. Any CO requesting a time extension to the contract regardless of the monetary value of the CO.					
45		_	c. Any CO that that causes the contract contingency sum to be exceeded.					
46		В.	The Board of Public Works generally meets every other week and only once in August and December. The GC is					
47			cautioned that, under normal scheduling, a CO requiring a BPW review will take a minimum of two (2) weeks to					
48			achieve final approval.					
49 50			1. The City shall not be responsible for additional delays to the Work caused by the scheduling constraints					
50 E1		c	of the Board of Public Works.					
51 52		C.	<u>SPECIAL NOTE:</u> The GC is cautioned to never proceed unless told to do so by the CPM. Only in rare instances					
52 52			may the CPM give a written notice to proceed on a COR without an approved CO. Proceeding without the written notice of the CPM or an approved CO is at the CC's own rick					
53 54			written notice of the CPM or an approved CO is at the GC's own risk.					
J4								

PART 2 – PRODUCTS 1 2

4

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6

7

3 2.1. **CHANGE ORDER FORM**

The CO form is located on the Project Management Web Site. The CPM shall click the link in the left margin of Α. the project web site opening a new form. Project information is pre-loaded, the CPM only needs to enter information and make attachments as needed to complete the form.

PART 3 - EXECUTION

8 9 10 3.1. PREPARATION OF THE CHANGE ORDER 11 The CPM shall prepare the required CO forms in the Construction Administration-Change Order Library on the Α. Project Management Web Site as follows: 12 13 1. Provide information for all contract information. 14 2. Provide a general description of the items described within the change order. 15 3. Provide detailed information for each Item on the CO form. At the option of the CPM he/she may include 16 multiple Change Order Requests each as their own item. 17 4. Provide required pricing and accounting information as needed for the item. 18 5. Insert attachments of contractor/architect provided information that clarifies and quantifies the CO. Attachments may include but not be limited to material lists, estimated labor, revised details or 19 20 specifications, and other documents that may be related to the requested change. 21 6. Save the final version of the completed CO. 22 23 3.2. EXECUTION OF THE CHANGE ORDER 24 Upon saving the CO as described in section 3.1 above the software associated with the Project Management Α. 25 Web Site shall notify the GC that the CO has been drafted and is ready for review. The GC shall do the following: 26 Open the appropriate CO form in the Construction Administration-Change Order Library and review all 1. 27 items on the form. 28 2. The GC shall notify the CPM immediately of any errors or discrepancies on the form and shall not sign or 29 save it. The CPM shall make any corrections as needed, re-save the form, and notify the GC. 30 а. 31 3. If/when the GC concurs with the CO form as drafted the GC shall digitally sign the form and click SAVE. 32 Β. After the GC digitally signs/saves the CO it shall be routed through the Project Management Web Site for 33 additional review and/or approvals. The CPM shall do the following: 34 1. Monitor the review process to ensure the software is working properly at each review step. 2. 35 Ensure that proper BPW procedures are executed as needed by the CO approval process. Schedule the CO on the next available BPW agenda if required. 36 а. 37 Attend the BPW meeting to speak on the CO to board members and answer questions. i. 38 ii. The GC and/or PA may be required to attend the BPW meeting to address specific 39 information as it relates to the Work and/or materials associated with the CO. 40 3. Monitor final approval and distribution of the CO. 41 4. Notify the GC that the CO has been completed. 42 5. Ensure that the CO is posted to the next Public Works payment schedule. 43 6. Verify that the GC's next Progress Payment-Schedule of Values show the CO as part of the contract sum. C. 44 Upon final approval of the CO the GC may proceed with executing the Work associated with the CO. 45 46 47 48 END OF SECTION 49

1				SECTION 01 29 73				
2 3	SCHEDULE OF VALUES							
4	PART 1 – GENERAL							
5	1.1. SUMMARY							
6	1.2. RELATED SPECIFICATIONS							
7								
8	1.4. BASIS OF VALUES							
9	PART	2 – PR		– THIS SECTION NOT USED				
10								
11	3	.1.	AIA DOCUMENT G702 – APPLICATION AND CERTIFICATE FOR PAYMENT					
12	3	.2.	AIA DOC	UMENT G703 – CONTINUATION SHEET				
13	3	.3.	INITIAL S	CHEDULE OF VALUES SUBMITTAL				
14	3	.4.	SOV FOR	PROGRESS PAYMENT REQUESTS				
15								
16	PART	1 – GI	ENERAL					
17								
18	1.1.		1MARY					
19		Α.		hedule of Values (SOV) is a Contractor provided statement that allocates portions of the total contract				
20				o various portions of the contracted work and shall be the basis for reviewing the Contractors Progress				
21		_		ent Requests.				
22		В.		ocument G702 – Application and Certificate for Payment and AIA Document G703 Continuation Sheet shall				
23				ed out in sufficient detail to be used as a guideline in determining work completed and materials stored on				
24		~		hen verifying Progress Payment Requests.				
25		C.		eneral Contractor shall be responsible for filling out, updating, and providing these work sheets with each				
26			Progre	ess Payment Request.				
27								
28	1.2.			CIFICATIONS				
29		A.		n 01 26 63 Change Order (CO)				
30		B.		n 01 29 76 Progress Payment Procedures				
31		C.		n 01 31 23 Project Management Web Site				
32		D.		n 01 32 26 Construction Progress Reporting				
33		Ε.		n 01 33 23 Submittals				
34 25		F.		of this specification will reference articles within "The City of Madison Standard Specifications for Public				
35				Construction".				
36			1.	Use the following link to access the Standard Specifications web page:				
37				http://www.cityofmadison.com/business/pw/specs.cfm				
38				a. Click on the "Part" chapter identified in the specification text. For example if the specification				
39				says "Refer to City of Madison Standard Specification $\underline{2}$ 10.2" click the link for Part II, the Part II				
40				PDF will open. b. Scroll through the index of Part II for specification 210.2 and click the text link which will take you				
41								
42				to the referenced text.				
43	1 2	ргі /						
44	1.3.			CUMENTS				
45 46		Α.	The following documents shall be used as the basis for initiating and maintaining the SOV worksheets throughout the execution of this contract.					
46								
47 49			1.	Drawing documents and specifications (including general provisions) as provided with the bid set documents and any published addendums.				
48			2					
49 50			2.	Documents associated with revisions or clarifications to number 1 above after awarding of the contract,				
50 51				including but not limited to:				
51 52				a. Construction Bulletins				
52 52				b. Request for Information				
53			2	c. Approved Change Orders				
54 57			3.	The latest daily/weekly Construction Progress Report				
55	5 4.			Other specifications as identified in Section 1.2 above				

1									
2	1.4.	BASIS	BASIS OF VALUES						
3		Α.	The Contractor shall provide a breakdown of the Contract Sum in sufficient detail to assist the Architect and City						
4			-	Project Manager in evaluating Progress Payment Requests. The breakdown detail may require a labor and					
5				material breakdown for each division of work or trade or as directed by the CPM.					
,		В.	The to	The total sum of all items shall equal the Contract Sum.					
	PART	2 – PR	ODUCTS	6 – THIS SECTION NOT USED					
	<u></u>								
	PART	<u>3 - EXE</u>	CUTION	<u>I</u>					
	3.1.	AIA D	осим	ENT G702 – APPLICATION AND CERTIFICATE FOR PAYMENT					
		Α.	The C	ontractor shall use AIA Document G-702 Application and Certificate for Payment with each Progress					
			Paym	ent Request.					
		В.	Comp	letely fill out the Project Information section as follows:					
			1.	TO OWNER; provide all owner related information as provided in the contract documents.					
			2.	PROJECT; provide all contract information including contract number, title and address.					
			3.	FROM CONTRACTOR; provide all contractor related information.					
			4.	VIA ARCHITECT; provide all the architect's related information including the architect's project reference					
			5.	number if different from the owners. Indicate the current <u>APPLICATION NO., PERIOD TO</u> date, and <u>CONTRACT DATE</u> .					
		C.		letely fill out the Contractors Application for Payment section.					
		C.	1.	Fill out lines 1 through 9 to reflect the current status of the contract through the payment date being					
			1.	requested.					
			2.	The City of Madison calculates retainage on Public Works Contracts as follows:					
				a. In general, across the duration of the contract, 2.5% of the total contract sum, including change					
				orders, is withheld for retainage as referenced from the City of Madison Standard Specification					
				110.2:					
				i. Beginning with Progress Payment 1, 5% retainage will be withheld until such time that 50%					
				of the total contract sum has been paid out.					
				ii. No additional retainage will be withheld after 50% of the total contract sum has been paid,					
				unless additional change orders have been approved after the 50% milestone has been					
				reached. Per City of Madison Standard Specification 110.2, additional retainage up to 10%,					
				may be held in the event there are holds placed by Affirmative Action or liquidated					
				damages by BPW.					
				iii. Retainage for additional change orders after the 50% milestone will be withheld at the rate					
				of 2.5% of the total cost of the change order.					
				 Retainage is based on the change orders posted to the City's contract worksheet at the time the progress payment is processed. 					
		D.	Comr	letely fill out the Change Order Summary section. Only change orders that have been finalized and posted					
		υ.		e City of Madison's Application for Partial Payment worksheet may be itemized into the SOV documents.					
		E.		ontractor shall sign and date the application and it shall be properly notarized.					
		F.		ontractor shall not fill in any information in the Architects Certificate for Payment section.					
	3.2.	AIA D		ENT G703 – CONTINUATION SHEET					
		Α.		ontractor shall use AIA Document G-703 Continuation Sheet to itemize his/her SOV for this contract.					
				Provide additional sheets as necessary.					
		В.		de information in Column A (Item No.), Column B (Description of Work), and Column C (Scheduled Value) by					
			-	nethod that allocates portions of the total contract sum to various portions of the contracted work.					
				ole methods include combinations of the following:					
			1. ว	By division of work					
			2.	By contractor, sub-contractor, sub sub-contractor					
			3. 4.	By specialty item or group Other methods of breakdown as may be requested by the City Project Manager or City Construction					
			4.	Manager at the pre-construction meeting.					
		C.	Provid	de total cost of the item/description of work including proportionate shares of profit and overhead related					
		с.		e item.					

1	3.3.	INITIA	AL SCHEDULE OF VALUES SUBMITTAL
2		Α.	The Contractor shall upload his/her initial SOV to the Project Management Web Site, Submittals Library, no later
3			than five (5) working days after the Pre-construction Meeting.
4			1. The initial SOV shall provide information in Column A (Item No.), Column B (Description of Work), and
5			Column C (Scheduled Value) only.
6			2. The level of detail shall be as described in section 3.2 above.
7		В.	The Project Architect (PA) and the City Project Manager (CPM) shall review the SOV as any other submittal and
8			may require modifications to reflect additional detail as necessary.
9		C.	The Contractor shall resubmit the SOV as necessary until such time as the PPA and CPM have sufficient detail for
10			assessing and approving future Progress Payment Applications.
11		D.	Progress Payment Application 1 will not be processed until such time as the Contractor has met this requirement
12			regardless of the amount of work completed per the application.
13			
14	3.4.	SOV F	OR PROGRESS PAYMENT REQUESTS
15		Α.	The Contractor shall update the initial SOV with each Progress Payment Application as follows:
16			1. Initial items and values as part of Section 3.3 above will not be adjusted once the original Schedule of
17			Values submittal has been approved.
18			2. Change orders shall be added as additional items and values at the bottom of the SOV as they become
19			approved and posted to the City's contract worksheet. The value for each change order shall be the
20			value indicated on the SOV and shall stand alone. Values shall not be split out or combined with other
21			existing items with similar work descriptions on the original SOV.
22			3. Fill out Columns D, E, F and G to properly reflect the work completed and materials received since the last
23			Progress Payment Application.
24			4. Only materials delivered and stored on the project site may be reflected on SOV progress updates.
25		В.	Provide updated G702 and G703 sheets with each Progress Payment application.
26		C.	See Specification 01 29 76 Progress Payment Procedures for additional information on submitting Progress
27			Payment Applications.
28			
29			
30			
31			END OF SECTION
32			

1 2				SECTION 01 29 76 PROGRESS PAYMENT PROCEDURES					
3									
4	PART 1 – GENERAL								
5	1.1. SUMMARY								
6	1.2. RELATED SPECIFICATIONS								
7	1.3. RELATED DOCUMENTS								
8	1.4. PROGRESS PAYMENT MILESTONES								
9		1.5.		UBMITTAL					
10				I NOT USED					
11									
12		3.1.		R PROCEDURE					
13 14		3.2. 3.3.		S ER PROCEDURE					
14 15	:	5.5.	CITY PROJECT WIAWAG	ER PROCEDORE					
16 17	<u>PART</u>	<u>1 – G</u>	ENERAL						
18	1.1.	SUN	/IMARY						
19		Α.	The General Contra	tor (GC) shall review this and all related specifications prior to submitting progress payment					
20			requests.						
21		В.	Progress payment re	equests (Partial Payment-PP) for this contract shall be uploaded digitally by the GC to the					
22			Project Managemer						
23		C.	•	t (PA) and City Project Manager (CPM) shall review and amend or approve the PP on the					
24			Project Managemer						
25		D.		e PP by the CPM, he/she shall forward the PP to the appropriate agencies for BPW					
26 27			contractual review a	ind payment processing.					
27	1.2.	DEI	ATED SPECIFICATIONS						
28	1.2.	A.	Section 01 26 63	Change Order (CO)					
30		д. В.	Section 01 20 03	Schedule of Values					
31		С.	Section 01 31 19	Progress Meetings					
32		D.	Section 01 31 23	Project Management Web Site					
33		E.	Section 01 32 16	Construction Progress Schedules					
34		F.	Section 01 32 26	Construction Progress Reporting					
35		G.	Section 01 33 23	Submittals					
36		Н.	Section 01 45 16	Field Quality Control Procedures					
37		١.	Section 01 77 00	Closeout Procedures					
38		J.	Section 01 78 13	Completion and Correction List					
39		Κ	Section 01 78 23	Operation and Maintenance Data					
40		L.	Section 01 78 36	Warranties					
41		М.	Section 01 78 39	As-Built Drawings					
42		N.	Section 01 78 43	Spare Parts and Extra Materials					
43		0.	Section 01 79 00	Demonstration and Training					
44 45	1.3.	DEI	ATED DOCUMENTS						
45 46	1.5.	A.		nents shall be used when evaluating PP requests.					
47		73.	-	ekly construction progress reports filed since the last payment request.					
48				Schedule of Values as updated from the last payment request. See Specification 01 29 73.					
49				nt that may be required to be submitted for review and approval, as noted by the					
50				s listed in Section 1.2 above, or the Progress Payment Milestone Schedule in Section 1.4					
51				hieve a required bench mark of contract progression or contract requirement.					
52									
53	1.4.	PRC	GRESS PAYMENT MILE	STONES					
54		Α.		ility Management has developed the Project Payment Milestone Schedule (Section 1.4					
55				GC in providing required construction specific documentation and general contractual					
56			documentation in a						
57		Β.		nt Milestone Schedule is not an all inclusive list. Multiple agencies review progress payment					
58			requests and contra	ct closeout requests. Missing, incomplete, or incorrect documentation for any agency may					

1 2		be a cause for not processing progress payments. It shall be the sole responsibility of the Contractor for providing documentation as required or requested to the appropriate agencies.
3	С.	The milestone schedule is based on the contract total sum and shall be valid for most contracts. Milestone
4		submittals will be required with whatever progress payment hits the percentage of contract total indicated in
5		the schedule.
6	D.	The CPM shall review the milestone schedule with each progress payment request and at his/her option may
7		elect to hold processing the progress payment until such time as the contractor has met the requirements for
8		providing construction specific documentation.
9	E.	It shall be the General Contractors responsibility to comply with all BPW Contract Administration requirements
10		and related deadlines as outlined in the Award Letter, Award Checklist, and Start Work Letter.
11		

Progress Payr	ment (PP) Miles	tone Schedule
Milestone Description	Due Before	Remarks
 BPW Contract Administration Documentation Workforce profiles Best Value Contracting Documentation Sub-contractors prequalification approval & Affirmative Action plans Other as may be required 	PP-1, or start work as applicable	 For GC and Sub-contractors before PP-1 regardless of scheduling Sub-contractors (if applicable), due 10 days before they may start work Sub-contractors (if applicable), due 10 days before they may start work
Required Construction Submittals/Administrative Documents • Contractors Project Directory • Schedule of Values • Submittals Schedule • Waste Management Plan • Closeout Requirement Checklist • Warranty Checklist • Restoration specialist(s) qualifications.	PP-1	References Specification 01 31 23 Specification 01 29 73 Specification 01 32 19 Specification 01 74 19 Specification 01 77 00 Specification 01 78 36 Various specifications.
Construction Progress Milestones Early submittals, per submittal schedule Detailed Contract Schedules 	PP-1	 See specifications for specific requirements Specification 01 32 19, Examples: concrete mix, structural steel, products with long lead times See Specification 01 32 16
General Construction Progress Requirements are all up to date Progress Schedules Submittals/Re-submittals (ongoing) Schedule of Values Progress Reporting LEED Documentation Waste Management documentation QMOs are being addressed and closed Progress Cleaning As-Built Drawings * All of the above are being update	Each future PP	Verified with each Progress Payment Request Specification 01 32 16 Specification 01 33 23 Specification 01 29 73 Specification 01 32 26 All specifications with LEED documentation requirements Specification 01 74 19 Specification 01 45 16 Specification 01 74 13 Specification 01 78 39 Management Web Site as required
BPW Contract Administration Documentation • Weekly payroll reports • Best Value Contracting Reports	25% CT or PP 2	See 1.4.E above. This progress payment will be with held by BPW for any missing contractual documentation.

Milestone Description	Due Before	Remarks
SBE Reports		
 onstruction Progress Milestones Construction/Contract Closeout Meeting #1 Submittals/Re-submittals complete 	50% CT	 Specification 01 31 19 Specification 01 33 23
peration and Maintenance (O & M) drafts	60% CT	Specification 01 78 23
 onstruction/Contract Closeout Meeting #2 Construction closeout checklist 	70% CT	 Specification 01 31 19 Specification 01 77 00
PW Contract Administration Documentation Request Finalization Review from BPW 	80% CT	This is a recommendation to the GC and is not a requirement of this PP. Specification 01 77 00
 onstruction Progress Milestones Operation and Maintenance (O & M) finals, accepted All major QMO issues resolved As-Built Drawings, Division Trades ready for GC review 	80% CT	 Specification 01 78 23 Specification 01 45 16; Items that could prevent occupancy Specification 01 78 39
 Il of the following shall be completed for this PP: Regulatory Inspections completed All QMO reports closed Demonstration and Training completed Attic Stock completed Final Cleaning 	90% CT	Contractor to determine the proper order of completion: Governing ordinances and statutes Specification 01 45 16 Specification 01 79 00 Specification 01 78 43 Specification 01 74 13
 onstruction Closeout Procedures: Letter of Substantial Compliance sent to BI and DHS as needed Certificate of Occupancy issued As-Built Drawings, finals, accepted City Letter of Substantial Completion Warranty letters dated and issued * Completion of 	100% CT this begins the o	 Specification 01 77 00 Generated/Signed by the Architect Building Inspection Specification 01 78 39 Signed by the City Engineer Specification 01 78 36
DW Contract Administration Decumentation		
 PW Contract Administration Documentation ontract Closeout Procedures Construction Closeout has been completed Contractor requests final payment of retainage upon receiving City Letter of Substantial Completion All BPW contractual requirements are verified 	Final	 Specification 01 77 00 Contractor must provide any missing BPW Contractual Documentation

		Progress Payment (PP) Milestone Schedule					
		Milestone Description Due Before Remarks					
		NOTE: CT = Contract Total less held retainage					
1.5.	PRO	GRESS PAYMENT SUBMITTAL					
1.5.	A.						
		1. Digital in PDF format					
		2. PDF shall be in color					
		 Uploaded to the appropriate Project Management library and properly named per the tutorial 					
		instructions provided to the awarded contractor.					
	В.	Submit all required construction progress documentation to the appropriate Project Management Web Site					
		 B. Submit all required construction progress documentation to the appropriate Project Management Web Site library. 					
	C.	In general the following shall apply to all PP requests:					
	0.	1. Materials or products:					
		a. On order, being shipped, etc. may not be invoiced.					
		b. Received and stored on the project site may be invoiced.					
		c. Being manufactured off site at any location may not be invoiced (example: cabinetry, ductwork,					
		etc.)					
		d. Completed products stored off site locally waiting for delivery to the project site may be invoiced					
		with prior approval by the CPM. All of the following conditions must be met to be allowed:					
		i. Items must be visually inspected by CPM to verify product is complete.					
		ii. Item must be stored inside a compatible structure and the structure and contents must b					
		insured.					
		iii. Contractor is responsible for condition until installation is completed.					
		2. All labor and equipment, including rental time for the current progress period may be invoiced.					
		 Only completed installations may be invoiced to 100% based on the Schedule of Values. 					
	D.	<u>DO NOT</u> submit BPW Contract Administration Documentation for review with Progress Payment Requests,					
	υ.						
		submit them directly to the correct agency and in the correct format as instructed from information in your BPW					
		Contract Award Packet instructions.					
PART	2 - PR	Contract Award Packet instructions.					
PART	<u>2 - PR</u>						
		Contract Award Packet instructions.					
<u>PART</u>	3 - EXI	Contract Award Packet instructions.					
	<u>3 - EXE</u> GEN	Contract Award Packet instructions.					
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	-							
1			4. The GC shall provide the list of all contractors/sub-contractors that were actively working during the					
2			dates indicated above.					
3			a. All contractors/sub-contractors named must be in compliance with all City requirements (Pre-					
4 5			qualified, Affirmative Action Plan on file, etc). The PP will be held and not processed by the City of Madison until all contractors/sub-contractors are in compliance.					
6			b. <u>Do not</u> list the names of suppliers or manufacturers, doing so will slow down processing and					
7			require a re-submittal of the paperwork.					
8		C.	The General Contractor (GC) shall scan all of the documents listed below in the order shown, save the scan as a					
9			single PDF file for each PP request.					
10			1. City cover sheet – Application and Certificate for Payment					
11			2. City tabulation sheet(s)					
12			3. AIA G702 - Application and Certificate for Payment					
13			4. AIA G703 - Continuation Sheet(s)					
14			5. Any miscellaneous documents that may be requested as backup documentation for the pay request.					
15			a. Lien waivers are not required and shall not be submitted.					
16			b. Do not provide contractual administrative documents such as pay reports with pay requests.					
17			c. Do not supply progress deliverables with pay requests.					
18		F.	Upload the pay request PDF to the Contract Documents-GC Partial Pay Apps library on the Project Management					
19			Web Site.					
20								
21	3.2.	PROJ	ECT ARCHITECT PROCEDURE					
22		Α.	The PA shall review the AIA-continuation sheets provided by the GC to determine if the Schedule of Values					
23			accurately reflects the work completed for the inclusive dates indicated.					
24		В.	The PA shall advise the CPM of any discrepancies in the schedule of values.					
25		C.	The PA shall work with the GC and the CPM to resolve any issues prior to signing the AIA - Application and					
26			Certificate for Payment.					
27		D.	When verified, the PA shall digitally sign the original PDF version of the AIA - Application and Certificate for					
28			Payment on the Project Management Web Site.					
29								
30	3.3.	CITY	PROJECT MANAGER PROCEDURE					
31		Α.	The CPM shall review all documents submitted by the GC and work with the PA to ensure the schedule of values					
32			accurately reflects the work completed to date.					
33		В.	The CPM may elect to hold processing of any progress payment pending submittal of required progress payment					
34			milestones.					
35		C.	When verified, the CPM shall digitally sign the City Cover Sheet and forward the required documentation to the					
36			appropriate City agencies for further processing of the payment request.					
37		D.	The CPM shall add a scanned copy of any documents indicating the PP request processing was completed to the					
38			PMWS.					
39								
40								
41			END OF SECTION					
42								

1 2	SECTION 01 31 13 PROJECT COORDINATION							
3								
4	PART 1 – GENERAL							
5	1.1. SUMMARY							
6	1.2. RELATED SPECIFICATIONS							
7	1.3. GENERAL REQUIREMENTS							
8	1.4. GENERAL CONTRACTOR PERFORMANCE REQUIREMENTS 2							
9		5.			FORMANCE REQUIREMENTS			
10					N NOT USED			
11	PART	3 – EX	ECUTION -	- THIS SECTIO	N NOT USED			
12								
13	PART	1 – G	<u>ENERAL</u>					
14								
15	1.1.		IMARY	c I: .:				
16		Α.	-		covers many areas within the execution of the Contract Documents and the requirements			
17					on are the applicable to all contractors executing the Work of this contract.			
18		В.			ovides general information regarding project coordination for the General Contractor and all			
19					contractors shall be familiar with project coordination requirements and responsibilities			
20		c		•	in other specification within these Contract Documents.			
21 22		C.		t Documents	tor shall at all times be responsible for the project, project site, and execution of the			
22			Contrac	Li Documents				
23 24	1.2.	DEL		IFICATIONS				
24	1.2.	A.		01 29 76	Progress Payment Procedures			
26		В.		01 25 70	Progress Meetings			
27		С.		01 31 23	Project Management Web Site			
28		D.		01 31 25	Construction Progress Schedules			
29		Ε.		01 32 19	Submittals Schedule			
30		F.		01 33 23	Submittals			
31		G.		01 43 39	Mockups			
32		Н.	Section	01 45 16	Field Quality Control Procedures			
33		١.	Section	01 60 00	Product Requirements			
34		J.	Section	01 77 00	Closeout Procedures, including all specifications referenced therein			
35		К.	Section	01 91 00	Commissioning			
36								
37	1.3.	GEN	IERAL REQ	UIREMENTS				
38		Α.	The foll	lowing genera	I requirements shall applicable to all contractors:			
39			1.	Cooperate wi	th the Owner, all authorized Owner Representatives, Project Architect and all consultants of			
40				the Owner.				
41			2.	Materials, pro	oducts, and equipment shall be new, as specified and to industry standards except where			
42				otherwise no				
43					orkmanship shall be of a high quality and to industry standards.			
44		В.		conditions:				
45					ting conditions noted in the contract documents with actual filed locations. Verify			
46					sizes and locations, of structural, equipment, mechanical and utility components.			
47		2. Report any inconsistencies, errors, omissions, or code violations in writing to the General Contractor (GC)						
48	immediately.							
49					r inconsistencies, errors, omissions on the GC As-Built record drawings immediately for			
50		c		future refere				
51 52		C.		t Documents				
52 E 2					Documents are intended to include everything necessary to perform the work. Every item			
53 54					not be specifically mentioned, shown, or detailed.			
54 55					t where specifically stated all systems and equipment shall be complete, installed, and fully			
55 56				opera b If a co	nflict exists within the contract documents the contractor shall furnish the item, system, or			
56 57					nanship of the highest quality, largest, largest quantity, or most closely fits the intent of the			
58					act documents.			

1			c. Manufacturers recommended installation details shall be verified and used prior to installation of
2			products and equipment so as to not void warranties.
3		D.	Errors and Omissions
4			1. No Contractor shall take any advantage of any apparent error or omission in the construction documents.
5			2. The City of Madison shall be permitted to make such corrections and interpretations as may be deemed
6			necessary for the fulfillment of the intent of the construction documents.
7		Ε.	Owners Representatives
8			1. All contractors shall be familiar with various Owner Representatives having Quality Management
9			responsibilities for the duration of this project including but not limited to the following:
10			a. Project Architect, responsible for all decisions affecting the code compliance and design intent of
11			the construction documents.
12			b. Consulting Architects and Engineers, responsible for providing consulting services to the Project
13			Architect, Owner, and City Project Manager, also responsible for Quality Management of the
14 15			construction documents.
15 16			 Owner, the designated representative of the City Agency that will occupy the project upon completion
10			completion. d. City Project Manager, responsible for all day to day decisions regarding the execution and
18			performance of this Public Works Contract.
19			e. Consulting City Staff, responsible for providing consulting services to the Project Architect, Owner,
20			and City Project Manager, also responsible for Quality Management of the construction
21			documents.
22			f. Commissioning Agent (CxA), responsible for ensuring that the project is meeting the Owner's
23			Project Requirements and related quality assurance procedures.
24			2. Owner Representatives shall be attending progress meetings, pre-installation meetings, performing or
25			being present for final testing and acceptance and quality management reporting during the execution of
26			the contract documents as outlined in other specifications.
27 28	1.4.	CENE	RAL CONTRACTOR PERFORMANCE REQUIREMENTS
29	1.4.	A.	Assume the responsibility for all Work specified in the Contract Documents except where specifically identified
30		73.	to be performed by the Owner or other contractor separately hired by the Owner.
31			1. Coordinate all work by Owner, equipment provided Owner, or contractor hired by the Owner into the
32			project schedule.
33		В.	Provide all construction management responsibilities as specified in other Division 1 specifications including but
34			not limited to:
35			1. Scheduling of work
36			2. Coordination of work between other Trades and Sub-contractors
37			3. Construction administration and management
38			4. Site layout, cleanliness, and protection of completed work/stored materials
39 40			 Waste Management Quality Assurance and Quality Control
40 41		c	 Quality Assurance and Quality Control Use Diggers Hotline and private utility locating companies to accurately locate all public and private utilities on
41 42		C.	the property as needed. The GC is responsible for any repair or replacement to any public or private utility
43			damaged during the execution of the Work
44		D.	Report any inconsistencies, errors, omissions, or code violations in writing to the Project Architect immediately.
45			Failure to report inconsistencies prior to beginning work shall indicate that the GC accepted all existing
46			conditions.
47		Ε.	The GC shall be responsible for assigning work and related responsibilities where the Contract Documents may
48			not clearly state who is responsible for providing the work, material, or product.
49		F.	Provide construction management oversight of all items described in Section 1.5 below.
		G.	Coordinate and assist CxA as outlined within 01 91 00 and as directed by Owner.
50		а.	coordinate and assist exclusion and a subsected by owner.
51	1 5		
51 52	1.5.	SUB-C	CONTRACTOR PERFORMANCE REQUIREMENTS
51 52 53	1.5.		CONTRACTOR PERFORMANCE REQUIREMENTS Be familiar with all of the contract documents as they pertain to your Work, adjacent work and the overall
51 52 53 54	1.5.	SUB-C	CONTRACTOR PERFORMANCE REQUIREMENTS Be familiar with all of the contract documents as they pertain to your Work, adjacent work and the overall progress of the project.
51 52 53	1.5.	SUB-C	 CONTRACTOR PERFORMANCE REQUIREMENTS Be familiar with all of the contract documents as they pertain to your Work, adjacent work and the overall progress of the project. All Sub-contractors shall be familiar with all Division 1 specifications as they may apply to progress,
51 52 53 54 55	1.5.	SUB-C	CONTRACTOR PERFORMANCE REQUIREMENTS Be familiar with all of the contract documents as they pertain to your Work, adjacent work and the overall progress of the project.

	1. Perform your work in proper sequence according to the GC's project schedule and in relation to the work
	of other trades.
	2. Notify other sub-contractors and trades whose work may be connected to, combined with, or influenced
	by your work and allow them reasonable time and access to complete their work.
	3. Join your work to the work of others in accordance with the intent of the Contract Documents.
	4. Order materials and schedule deliveries to facilitate the general progress of the Work.
С.	Cooperate with all other trades to facilitate the general progress of the work. This shall include providing every
	reasonable opportunity for the installation of work by others and the storage of their materials and equipment.
	1. In no case shall any contractor exclude from the premises or work any Sub-contractor or their employees.
	2. In no case shall any contractor interfere with the execution or installation of Work by any other Sub-
	contractor or their employees.
D.	Arrange your work, equipment, and materials and dispose of your construction waste so as to not interfere with
	the work or storage of materials of others.
Ε.	Coordinate all work as indicated during pre-installation meetings with Owner Representatives, the GC and other
	trades. Any work improperly coordinated shall be relocated as designated by the Owner Representative at no
	additional cost to the City.
F.	Coordinate and assist CxA as outlined within 01 91 00 and as directed by Owner.
<u> PART 2 – PR</u>	DDUCTS – THIS SECTION NOT USED
<u> PART 3 – EXE</u>	CUTION – THIS SECTION NOT USED
	END OF SECTION
	D. E. F. <u>PART 2 – PR(</u>

1 2 2			SECTION 01 31 19 PROJECT MEETINGS
3 4	ΡΔ RT	1 – GEN	NERAL
5			SUMMARY
6			RELATED SPECIFICATIONS
7			PROJECT MEETING TYPES
8			GENERAL REQUIREMENTS
9			DUCTS – NOT USED IN THIS SECTION
10			CUTION
10			PRECONSTRUCTION MEETING
12	-		PROJECT MANAGEMENT WEB SITE – TUTORIAL MEETING
13			CONSTRUCTION PROGRESS MEETINGS
14			PRE-INSTALLATION MEETINGS
15			PRE-CONTRACT CLOSEOUT MEETINGS
16	-	-	OTHER SPECIAL MEETINGS
17		.,	
18 19	<u>PART</u>	<u>1 – GEI</u>	NERAL
20	1.1.	SUM	MARY
21		A.	The purpose of this specification is to identify various project related meetings and the responsible parties for
22			scheduling, agendas, minutes, and required attendance.
23		В.	This specification is not intended to be inclusive of all meeting types or a complete list of required meetings.
24		C.	This specification is not intended to cover planning and execution meetings between the General Contractor
25			(GC) and his/her sub-contractors.
26			
27	1.2.	RELA	TED SPECIFICATIONS
28		Α.	01 31 23 Project Management Web Site
29		В.	01 32 16 Construction Progress Schedules
30		C.	01 43 39 Mockups
31		D.	01 91 00 Commissioning
32			
33	1.3.	PROJ	ECT MEETING TYPES
34		Α.	The following project meeting types may be used but not limited to the following
35			1. Preconstruction Meeting
36			2. Project Management Web Site – Tutorial Meeting
37			3. Construction Progress Meetings
38			4. Pre-installation Meetings (including mock-up review meetings)
39			5. Weekly Trade Meetings
40			6. Special Meetings
41			7. Commissioning Meetings
42		~~~~	
43	1.4.		ERAL REQUIREMENTS
44		Α.	Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and
45			authorized to act on behalf of the entity each represents.
46	DADT	2 00/	
47	PARI	<u> </u>	ODUCTS – NOT USED IN THIS SECTION
48	DADT	э гуг	
49 50	PARI	<u> 3 - EXE</u>	CUTION
50 51	2 1		
51 52	3.1.		ONSTRUCTION MEETING After execution of the Contract the City Project Manager (CDM) shall schedule and conduct the Proconstruction
52 52		Α.	After execution of the Contract the City Project Manager (CPM) shall schedule and conduct the Preconstruction
53 54			Meeting at the Owner's facilities. The CPM shall coordinate the meeting agenda with the Project Architect and the GC Project Manager
54 55		D	the GC Project Manager. The CPM shall be responsible for the final agenda.
55 56		В. С.	The CPM and Project Architect shall take notes on the meeting and post completed meeting minutes.
56 57		с. D.	Attendance shall be required by all of the following:
57 58		U.	1. Owner Representative(s)

1				Architect and applicable sub consultant(s)
2				General Contractor and applicable subcontractors and suppliers
3				City Quality Management Staff
4				Commissioning Agent
5		-		Others, as may be invited for particular agenda items.
6		Ε.		of the Preconstruction Meeting shall include but not be limited to the following:
7				Staff and contractor introductions
8				Completion Date
9				BPW Administrative requirements and due outs
10				a. Small Business Enterprise (SBE) (if applicable)
11				b. Certified payroll forms
12				c. Workforce profiles
13 14				d. Best Value Contracting (BVC) Constal Eacility Management Division 1 Specifications, including:
14				General Facility Management Division 1 Specifications, including: a. Section 01 29 76 Progress Payment Procedures
16				o ,
10				 b. Section 01 31 23 Project Management Web Site (overview) c. Section 01 45 16 Field Quality Control Procedures
18				d. Section 01 77 00 Closeout Procedures
19				e. Section 01 91 00 Commissioning
20				Project Meeting scheduling
20				a. Section 01 31 19 Project Meetings
22				Construction Schedule
23				Commissioning Process
24				
25	3.2.	PROJ	ECT MAN	IAGEMENT WEB SITE – TUTORIAL MEETING
26		Α.	The CPI	M shall schedule and conduct a tutorial presentation of the PMWS prior to the beginning of construction.
27		В.	The CPI	M shall be responsible for the final agenda, there will be no minutes.
28		C.	The req	uired attendance list in 3.1.D. above shall apply except for City Staff in items 1 and 4 who are already
29			familiar	r with the PMWS system.
30		D.	It is rec	commended that all contractors bring their lap top, tablet or other internet capable device with them
31			the all solts.	
			Includir	ng a fully charged battery and internet connection devices as necessary.
32			Includir	ng a fully charged battery and internet connection devices as necessary.
33	3.3.		STRUCTIO	ON PROGRESS MEETINGS
33 34	3.3.	CONS A.	STRUCTIO In gene	ON PROGRESS MEETINGS eral all of the following shall apply:
33 34 35	3.3.		STRUCTIO In gene 1.	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and
33 34 35 36	3.3.		STRUCTIO In gene 1.	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents.
33 34 35 36 37	3.3.	A.	STRUCTIO In gene 1. 2.	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above.
33 34 35 36 37 38	3.3.		STRUCTIO In gene 1. 2. The Gen	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall:
33 34 35 36 37 38 39	3.3.	A.	5 TRUCTIO In gene 1. 2. The Gen 1.	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required.
33 34 35 36 37 38 39 40	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2.	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following:
33 34 35 36 37 38 39 40 41	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2.	ON PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety
 33 34 35 36 37 38 39 40 41 42 	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2.	 DN PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule
 33 34 35 36 37 38 39 40 41 42 43 	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2.	 DN PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule c. Status of project related documentation (Submittals, RFIs, CBs, etc.)
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2.	 DN PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule c. Status of project related documentation (Submittals, RFIs, CBs, etc.) d. Quality Observation Log and status of correction of deficient items e. Project questions and issues from meeting attendees f. BPW Administration Check g. Other as needed
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2. 3.	 DN PROGRESS MEETINGS Beral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule c. Status of project related documentation (Submittals, RFIs, CBs, etc.) d. Quality Observation Log and status of correction of deficient items e. Project questions and issues from meeting attendees f. BPW Administration Check g. Other as needed h. Status of CORs and COs to be reviewed outside the standard progress meeting time. Make physical arrangements for meetings.
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 	3.3.	A.	STRUCTIO In gene 1. 2. The Gen 1. 2. 3. 4.	 DN PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule c. Status of project related documentation (Submittals, RFIs, CBs, etc.) d. Quality Observation Log and status of correction of deficient items e. Project questions and issues from meeting attendees f. BPW Administration Check g. Other as needed h. Status of CORs and COs to be reviewed outside the standard progress meeting time. Make physical arrangements for meetings. GCPM to post meeting agendas to the appropriate libraries on the Project Management Web Site
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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 	3.3.	A.	5. 6. 7.	 DN PROGRESS MEETINGS eral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule c. Status of project related documentation (Submittals, RFIs, CBs, etc.) d. Quality Observation Log and status of correction of deficient items e. Project questions and issues from meeting attendees f. BPW Administration Check g. Other as needed h. Status of CORs and COs to be reviewed outside the standard progress meeting time. Make physical arrangements for meetings. GCPM to post meeting agendas to the appropriate libraries on the Project Management Web Site (PMWS) no less than two (2) working days prior to the scheduled meeting. Notify all required attendees, applicable parties to the contract, and others affected of the posted meeting agenda. Preside at meetings. Route a meeting attendance roster for attendees to sign-in on. GCPM to record the minutes of the meeting; include significant proceedings and decisions. Post meeting
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 	3.3.	A.	5 TRUCTIO In gene 1. 2. The Gen 1. 2. 3. 4. 5. 6. 7.	 DN PROGRESS MEETINGS ral all of the following shall apply: Representatives of Contractors, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents. The attendance shall be from the required attendance list in 3.1.D. above. neral Contractor Project Manager (GCPM) shall: Schedule and conduct all construction progress meetings biweekly or more frequently as required. Prepare agenda for meetings including, but not limited to the following: a. Safety b. Current Schedule, including review of the critical path and 6-week look ahead schedule c. Status of project related documentation (Submittals, RFIs, CBs, etc.) d. Quality Observation Log and status of correction of deficient items Project questions and issues from meeting attendees f. BPW Administration Check g. Other as needed h. Status of CORs and COs to be reviewed outside the standard progress meeting time. Make physical arrangements for meetings. GCPM to post meeting agendas to the appropriate libraries on the Project Management Web Site (PMWS) no less than two (2) working days prior to the scheduled meeting. Notify all required attendees, applicable parties to the contract, and others affected of the posted meeting agenda. Preside at meetings. Route a meeting attendance roster for attendees to sign-in on. GCPM to record the minutes of the meeting; include significant proceedings and decisions. Post meeting minutes to the PMWS no more than two (2) working days after the completed meeting. Meeting

1			. The above requirements do not apply to GC/sub-contractor meetings.
2	2.4	005	
3 4	3.4.		TALLATION MEETINGS
4 5		Α.	he GCPM shall schedule and conduct all pre-installation meetings, including mockup reviews, before each onstruction activity that requires coordination with other trades.
6		В.	he GCPM shall be responsible for the final agenda and meeting minutes.
7		Б. С.	he GCPM will work with all concerned parties to resolve issues as needed and submit RFI's if necessary.
8		D.	equired attendance shall be from the list in 3.1.D. above and shall be personnel having a stake in the outcome
9		υ.	f the installation or knowledge of the system being installed.
10		E.	the event the Contractor installs equipment or materials without a pre-installation meeting the Contractor
10		L.	hall be solely responsible for removing, replacing, repositioning materials and equipment as instructed by the
12			roject Architect or City Project Manager at no additional cost to the City.
13			
14	3.6	PRF-	NTRACT CLOSEOUT MEETINGS
15	5.0	A.	wo (2) Pre-contract Closeout Meetings shall be held to review the closeout procedures, requirements, and
16		74.	ontract deliverables.
17			. Pre-contract Closeout Meeting #1 shall be scheduled prior to the 50% Progress Payment Request is being
18			requested. This meeting shall discuss items such as closing out QMO reports, providing O&M drafts and
19			finals, payroll and Affirmative Action documentation, and other contract deliverables.
20			. Pre-contract Closeout Meeting #2 shall be scheduled prior to the 80% Progress Payment Request is being
21			requested. This meeting shall discuss, but not be limited to, the status of scheduling final regulatory
22			inspections, cleaning up outstanding QMO's, demonstration and training, attic stock; and finalization
23			review of payroll and other related documents.
24		В.	he GCPM shall schedule, coordinate, and make physical arrangements for both meetings.
25		C.	Il of the following shall be required to attend both meetings:
26			. The GCPM and the GC Field superintendent
27			. All Subcontractor Project Managers regardless of the current status of their work.
28			a. The GCPM may excuse a Subcontractor PM if he is confident that all contractual requirements for
29			closeout by the subcontractor have been completed and/or delivered to the GCPM. The list of
30			attendees shall be reviewed and agreed upon with CPM ahead of the meeting.
31			b. At the option of these project managers the field supervisors may also attend.
32			. The Project Architect and at least one design consultant from each discipline represented by the plans
33			and specifications to address open QMOs, final tests, reports, etc.
34			. The Owner
35			. The CPM
36			. Quality Management staff as needed to address open QMOs, final tests, reports, etc.
37			. The Commissioning Agent
38		D.	he CPM shall publish an agenda and chair the meeting.
39			
40	3.7	OTHE	PECIAL MEETINGS
41		А.	he Contractor shall schedule special meetings per the requirements of the LEED Specification, the Project
42			Quality Management Plan, the Commissioning Plan and as indicated by other specifications.
43		В.	pecial meetings include but are not limited to the following:
44			. Waste Management Conference
45			. Equipment start up meetings
46			. Testing and balancing meetings
47			Commissioning meetings
48			. Other meetings as necessitated by the contract documents
49			
50			END OF SECTION

1			SECTION 01 31 23					
2	PROJECT MANAGEMENT WEB SITE							
3 4	PART 1 – GENERAL							
5		-	GENERAL DESCRIPTION					
6			SHAREPOINT PROCEDURE OVERVIEW					
7			RELATED SPECIFICATIONS					
8	PART	2 - PR(2 DDUCTS					
9	2	2.1.	SHAREPOINT SYSTEM RELATED PRODUCTS					
10	PART	3 - EXE	ECUTION					
11	Э	8.1.	POST BID-OPENING					
12	3	3.2.	POST PRE-CONSTRUCTION MEETING					
13								
14	PART	1 – GE	NERAL					
15								
16	1.1.	-	ERAL DESCRIPTION					
17		Α.	The City of Madison (CoM) has established a web based Project Management Tool (PMT) using a Microsoft					
18		_	product called SharePoint (SP).					
19		В.	The software is used throughout the design, construction and warranty process of major remodels and new					
20		C.	construction projects executed as a City of Madison, Board of Public Works project. Initially deployed in mid-2013, the PMT software has been successfully deployed on several projects, and we					
21 22		L.	continue to modify/update/enhance the PMT on a regular basis.					
22			continue to modify/update/efficience the PNT on a regular basis.					
23 24	1.2.	SHA	REPOINT PROCEDURE OVERVIEW					
25		A.	The CoM PMT is a system of consolidated Document & Form Libraries and Data Lists that assist in performing					
26			day to day functions of design/construction management while reducing the use of surface mail, email and email					
27			attachments.					
28			1. Document libraries store a wide variety of documents in many different formats including but not limited					
29			to Word, Excel, PDF, photographs (all popular formats), etc.					
30			2. Data Lists contain consolidated data information that can be generated and stored for further use. Punch					
31			Lists and Warranty issues will be examples of Data Lists.					
32			3. Form Libraries are primarily used when a specific work flow process is needed. The form acts as the					
33			cover letter. An example of this would be the Submittal Review Process.					
34			4. Libraries are controlled by Permission Groups and Permission Levels.					
35		В.	The following libraries and sub-libraries on the PMWS are provided for specific workflows and contract					
36			documentation. Related specification numbers are in "()" if applicable.					
37								

Contract Documents	Construction Administration	Construction Progress	LEED Documentation	Quality Control	Construction Closeout
GC Partial Pay Apps (01 29 76)	Change Order Requests (COR Form) (01 26 57)	Schedules (01 32 16)	LEED Documents	Regulatory Inspections	Misc Closeout Documents
Construction Documents	Change Orders (CO Form) (01 26 63)	Progress Meetings (01 31 19)	Waste Management (01 74 19)	Commissioning Checklists	O & M Manuals (01 78 23)
Regulatory Documents	Construction Bulletins (CB Form) (01 26 46)	Daily Journal (DJ Form) (01 32 26)		System Performance Tests	Product Warranties /Guarantees (01 78 36)
Testing Contract	Request for Information (RFI Form) (01 26 13)			Quality Management Observation (QMO Form) (01 45 16)	As-Builts (01 78 39)
	Submittals (SUB Form) (01 33 23)			Safety and Incident Reports	Attic Stock (01 78 23)
	Substitution Request (SR Form) (01 25 13)			Material Testing & Field Reports	Demonstration and Training (01 79 00)

		Contract Documents		Construction Administration	Construction Progress	LEED Documentation	Quality Control	Construction Closeout
								Warranty Issues (WI Form) (01 78 23)
1 2 3		C.					eral Contractor (GC) v Sub-Contractors (SC)	
4 5 6		D.	The PMT complete	has predefined work	flows that channel an are designed for inbo	utomated alerts as d und information from	ocuments are upload n the contractor as w	ed, reviewed, and
7 8		Ε.	The GC w		eive email notification	ns, access the interne	et to review related d	ocumentation and
9 10 11 12		F.	The SC's v document	vill be required (at a r	minimum) to receive g up the final PMT th	email notifications a ne GC and CPM shall	nd access the interne meet to review all SP	
12	1.3.	RELA	TED SPECIFI					
14		Α.		ving specification sec			system.	
15			-		ct Substitution Proce			
16				•	est for Information (R	•		
17					ruction Bulletins (CB)			
18				-	e Order Request (CO	PR)		
19				-	e Order (CO)			
20				-	ess Payment Procedu	ires		
21					t Meetings	- du la -		
22					ruction Progress Sche			
23					ruction Progress Rep	-		
24 25					graphic Documentat	ion		
25 26				. 33 23 Submi		duras (Ourpar)		
26 27			12. 01	. 45 16 Field (Quality Control Proce	aures (Owner)		
28	PAR	T 2 - PR	ODUCTS					
29 30	2.1.	спур		TEM RELATED PROD	UCTS			
31	2.1.	A.				that requires no add	litional software insta	llation bardware or
32		74.					ts associated with the	
33		В.		the CoM is using Sha				
34			•	-		er is running Window	s versions 7 through	8.1.
35				arePoint works best				-
36						•	owsers such as Fire Fo	x, Google Chrome,
37				d Safari.	·			, , ,
38								
39	PAR	T 3 - EXE	CUTION					
40								
41	3.1.	POST	BID-OPENI	NG				
42		Α.	After bids	have been opened, a	a successful bidder ha	as been determined,	and bid acceptance p	procedures have
43			been initia	ated the City Project	Manager (CPM) will d	contact the GC to pro	ovide the following in	formation.
44							printable format with	screen shots and
45			as	sociated instructions				
46			a.		ions will include but			
47						ies, documents, and	forms that will be use	ed throughout the
48					tion project.			
49						ious types of docum	ents including standa	rdized naming
50				conventi	ons.			

1 2 3 4 5 6 7 8 9 10			 A blank Project Directory in an Excel spread sheet format. The contractor shall provide the following information for GC and SC staffs as indicated on the spreadsheet. This will generally be the Project Manager for the GC as well as the Sub-contractors and the GC Site Supervisor. Last Name, First Name Company Name Email address (valid, work related) Work Phone Number (required, include area code) Cell Phone Number (not required, include area code) The GC shall provide the above information for all SC's where the GC is not self-performing the work. The GC may provide project foreperson information for work being self-performed if he/she so desires.
10			4. The de may provide project to eperson mormation for work being sen-performed in hersite so desires.
12	3.2.	POST	PRE-CONSTRUCTION MEETING
13		Α.	The GCPM will return the completed Project Directory spread sheet to the CPM no later than the Pre-
14			construction meeting.
15		В.	The CPM is responsible for uploading all project directory data into SharePoint and coordinating with CoM
16			Information Technology (CoM-IT) for creating the logins and passwords of non-city staff (GC/SC staffs).
17		C.	All GC/SC staff will be notified through an automated email from CoM IT that logins and passwords are available.
18			It is the responsibility of each GC/SC to <u>call</u> the CoM-IT number provided in the email to receive his/her
19		_	login/password over the phone. Logins and passwords will not be released via email.
20		D.	Once the GCPM has received his/her login/password uploading of contract related documents can begin. This
21		_	would include but not be limited to project schedules, submittals, RFI's, and other documents as needed.
22		Ε.	All workflows, review of documentation, and general archiving of construction related documentation will be
23		-	conducted on the PMWS. These documents will generally not be emailed.
24		F.	The following documents related to the execution of the contract will not be part of the PMWS:
25			 All documentation related to executing the contract, such as: a. Sub Contractors list
26 27			a. Sub Contractors listb. Affirmative Action documentation
28			c. Bonding documentation
28			d. Documentation associated with payroll verification
30			e. Final documentation associated with payrol vernication
31			 Any documentation required/generated by ordinance, code or statute, such as;
32			a. Erosion Control inspections
33			b. Building Inspection Department inspections
34			
35			
36			
37			END OF SECTION
38			

1 2				SECTION 01 32 16 CONSTRUCTION PROGRESS SCHEDULES
3 4	DΔRT	1-6	ΕΝΕΒΔΙ	
5		1.1.		
6		1.2.		NS1
7				I NOT USED
8				1
9		3.1.		EDULE (OPS)
10		3.2.		EDULES (LOS)
11		3.3.		T WEB SITE (PMWS)
12 13	PART	1-6	ENERAL	
14	<u>. /</u>			
15	1.1.	SCO	OPE	
16 17		Α.	and outlook. The fol	o identify various project related schedules associated with indicating construction progress lowing schedules are the responsibility of the General Contractor (GC).
18			1. Overall Project	
19			2. 6 Week Look-	
20		В.		ot intended to include internal schedules generated by the contractors during their
21			planning and executi	on of the contract.
22				
23	1.2.		ATED SPECIFICATIONS	
24		Α.	Section 01 29 76	Progress Payment Procedures
25		В.	Section 01 31 23	Project Management Web Site
26		C.	Section 01 31 19	Progress Meetings
27		D.	Section 01 74 13	Progress Cleaning
28		Ε.	Section 01 77 00	Closeout Procedures
29		F.	Section 01 78 23	Operation and Maintenance Data
30 31		G. H.	Section 01 78 36 Section 01 78 39	Warranties
31 32		п. І.	Section 01 78 43	As-Built Drawings Spare Parts and Extra Materials
32 33		ı. J.	Section 01 79 00	Demonstration and Training
33 34		у. К.	Section 01 91 00	Commissioning
34 35		L.		vithin the construction documents that may indicate the need for scheduling any event with
36		L.		tect, Owner Representatives, including any owner provided equipment.
30 37			Owner, Project Archi	teet, Owner Representatives, metading any owner provided equipment.
38	PART	2 – P	RODUCTS – THIS SECTIO	N NOT USED
39				
40 41	PARI	3 - E	<u>KECUTION</u>	
42	3.1.	ov	ERALL PROJECT SCHEDU	
43		Α.		an OPS that covers the duration of the contract from the pre-construction meeting through
44				on to final contract closeout.
45				review Specification 01 77 00 Closeout Procedures to become familiar with definitions,
46				nd requirements for closing out the construction and contract including the association with
47			progress payr	
48		В.		copies and lead a discussion on the OPS during the pre-construction meeting.
49		С.		e start and end dates of each task associated with the project.
50		D.		indicate the critical path of the project.
51		Ε.		the OPS as often as necessary during the duration of the project. Updates will be briefed as
52 52			needed during bi-we	ekly progress meetings.
53 F /		<u> </u>		
54 E E	3.2.		/EEK LOOK-OUT SCHEDU	
55 56		Α.		the initial LOS to include detail of daily tasks for the first six (6) weeks of construction in nstruction meeting. The LOS shall be compatible and complimentary to the OPS.
56 57		В.		copies and lead a discussion on the LOS during the pre-construction meeting.

1		C.	The LOS shall indicate start and end dates of each major task, associated related sub-tasks, and required parallel
2			or pre-requisite tasks required to complete the major task on time.
3		D.	The LOS shall also include identifying and scheduling such events as:
4			1. Pre-installation meetings and mock-up review meetings.
5			2. Quality management reviews of installations before they are covered.
6			3. Owner provided equipment as designated by the contract documents.
7			4. Work by others as designated by the contract documents.
8			5. Critical submittal dates.
9		Ε.	The GC shall update the LOS prior to each bi-weekly progress meeting to indicate the next 6 weeks of scheduled
10			work. Updates will be briefed during each bi-weekly progress meeting.
11			
12	3.3.	PRO.	JECT MANAGEMENT WEB SITE (PMWS)
13		Α.	The GC shall upload all project schedules and updates to the PMWS in an original PDF version of the scheduling
14			document. Scans will not be permitted.
15			
16			
17			END OF SECTION
18			

1			SECTION 01 32 19				
2	SUBMITTALS SCHEDULE						
3 4	PART 1 – GENERAL						
5		1.1.	SUMMARY				
6		1.2.	RELATED SPECIFICATIONS				
7	:	1.3.	RELATED DOCUMENTS1				
8		1.4.	SUBMITTAL DEFINITIONS				
9	:	1.5.	SUBMITTAL REQUIREMENTS				
10	:	1.6.	ADMINITRATIVE SUBMITTALS				
11	PART	2 – PR	ODUCTS – THIS SECTION NOT USED				
12	PART	3 - EXI	ECUTION				
13		3.1.	OVERALL RESPONSIBILITIES OF ALL CONTRACTORS				
14		3.2.	GENERAL CONTRACTORS RESPONSIBILITIES				
15 16		3.3.	STAFF REVIEW RESPONSIBILITIES				
17	PART	1 – GE	ENERAL				
18 19	1.1.	CUN					
20	1.1.	A.	IMARY The General Contractor shall submit a complete and comprehensive list of all submittals anticipated during the				
20		л.	execution of this contract.				
22		В.	The GC shall include the Administrative submittals identified in item 1.5 below and shall be required to up load				
23			them to the Project Management Web Site.				
24		C.	The initial Submittals Schedule shall be based on the original contract documents used at the time of bidding and				
25			any posted addenda through awarding of the contract.				
26		D.	The Submittal Schedule may be appended during the execution of the contract based on amendments to the				
27			contract in the form of Change Orders, Construction Bulletins, and other related documents that add, or change				
28			the scope of the work.				
29							
30	1.2.		ATED SPECIFICATIONS				
31		A.	Section 01 29 76 Progress Payment Procedures				
32		B.	Section 01 31 23 Project Management Web Site				
33 34		C. D.	Section 01 33 23 Submittals Section 01 91 00 Commissioning				
34 35		D.	Section 01 91 00 Commissioning				
36	1.3.	RFL	ATED DOCUMENTS				
37	1.0.	A.	The following documents shall be used as the basis for initiating the original Submittals Schedule.				
38			1. Drawing documents and specifications (including general provisions) as provided with the bid set				
39			documents and any published addenda.				
40		В.	The following documents shall be used to amend the submittals schedule as needed during the execution of this				
41			contract.				
42			1. Documents associated with revisions or clarifications to number A.1 above after awarding of the				
43			contract, including but not limited to:				
44			a. Construction Bulletins				
45			b. Approved Change Orders				
46							
47	1.4.		MITTAL DEFINITIONS				
48		A.	Administrative Submittal: Any submittal that may be required by a Division 1 Specification and as noted in				
49 50		В.	Section 1.5 below. Critical Path Submittal: Any early submittal that needs a priority review due to early construction use or long				
50 51		υ.	lead times where a delay could affect the critical path of the construction schedule				
52		C.	Submittal: Any material, product, equipment, or general requirement as outlined in this and other specifications				
53		5.	that require a favorable review or acceptance prior to proceeding with procuring the item or proceeding with				
54			the Work.				
55							

1	1.5.	SUBMITTAL REQUIREMENTS								
2		Α.								
3			individual Division or Trade to compile a complete list of all materials, products, or equipment that will requi							
4					wed submittal to					
5			1.		als shall include l					
6					Shop Drawings		,	0	- / - 1-1- /	
7					Product Data					
8					Assembly Drawin	gs				
9					Engineered Draw	-				
10					Product Samples					
11		В.	The following items will require an approved submittal, verify with specifications for specific needs						ns for specific needs and	
12				requirements:						
13			•	1. Contractor certifications for specialized work such as asbestos removal, well drilling, controls, AV, etc.						
14								,		
15	1.6.	ADM	INISTRA	NISTRATIVE SUBMITTALS						
16	-	A.								
17	Letter. All Administrative Submittals shall be approved prior to requesting Progress Payment Num									
18			1.						ements with CPM	
19			2.		e of Values, see S			-,		
20			3.		als Schedule, see	•				
21			4.		/ Ianagement Plar					
22			5.		t Requirement C			7 00		
23			6.		y Checklist, see S					
24										
25	PART	2 – PRODUCTS – THIS SECTION NOT USED								
26										
27	PART	3 - EXECUTION								
28										
29	3.1.	OVERALL RESPONSIBILITIES OF ALL CONTRACTORS								
30		Α.	A. All contractors shall be responsible for reviewing the drawings and specifications within their Divisions of Work							
31			to provide a complete and comprehensive list of submittals to the General Contractor.							
32		В.								
33	submittal can be considered an early/middle/late submittal, the anticipated date the submittal w and the anticipated date the submittal needs to be approved.							te the submittal will be provided		
34										
35		C. Contractors shall be aware that the <u>goals</u> for submittal review by the Architect staff and City staff will be as follows:								
36										
37		1. For items on the Critical Path as identified by the GC, five (5) working days								
38			2. For most other submittals ten (10) working days							
39		 Additional time may be needed for complex submittals or if re-submittals are required. The general format of the Submittal Schedule shall be tabular as per this example: 								
40		D.	The ge	neral for	mat of the Subm	ittal Schedule s	shall be tabular a	as per this examp	ble:	
41										
			<u>Title</u>		Specification	Critical Path (Y or N)	Date provided	Date required	Remarks	
		Concrete Mix Design			03 30 00	Y	Oct 1, 2014	Oct 15, 2014		
			Draw Do		09 90 00	N	Jan 2, 2015	Jan 20, 2015		
42		- ann			00 00 00		Jun 2, 2013	3411 20, 2013		
43	3.2.	GENI			RS RESPONSIBIL	ITIES				
43 44	3.2.	A.					r all of the follow	ving		
45		 A. The General Contractor shall be responsible for all of the following: 1. Consolidating all submittal lists from individual contractors into one master list. 								
46			2.		-				contract, etc. The GC shall meet	
47					ividual contracto		-			

- with individual contractors to make changes as necessary.
 3. Upload the completed Submittals Schedule to the Submittal Library on the Project Management Web Site for review as SD 003.0. See Specification 01 33 23 Submittals for more information on this procedure.
- 4. Resubmit the schedule as needed after initial reviews have been completed.
- 51
 B.
 The GC shall work with other contractors to amend the Submittals Schedule throughout the execution of the

 52
 project based on changes and modifications as needed.

 52
 The GC and Desiret Arehitest about the execution of the submittals and heighing the submittal schedule and
- 53C.The GC and Project Architect shall be responsible for reviewing and briefing the submittal schedule and54submittals status at each bi-weekly construction meeting.

48

49

50

1 2 3.3. **STAFF REVIEW RESPONSIBILITIES** 3 Α. The Project Architect, consulting staff, Commissioning Agent (CxA), Owner, and city staff will review the 4 Submittal Schedule for completeness per the plans and specifications within their divisions of work. The reviewing staff may provide comments as needed. Some examples might include the following: 5 Submittal not required 6 1. 2. Provide photos of samples with digital submittal 7 Insure one submittal for complete system 8 3. 9 4. Append the schedule to include... 10 5. See Specification <xyz> for additional requirements 11 Β. The Project Architect and City Project Manager will finalize review comments regarding the Submittal Schedule. 12 Re-submittal of the submittal schedule may be required. 13 14 15 16 END OF SECTION 17

1	SECTION 01 32 26				
2					CONSTRUCTION PROGRESS REPORTING
3					
4	PART	1 – G	ENERAL		
5		1.1.			
6		1.2.			SECTIONS 1
7		1.3.			ALITY ASSURANCE REQUIREMENTS 1
8					NOT USED 1
)	PART	3 - E>			
)		3.1.			
		3.2.	CONSTR	UCTION PROGRI	ESS MEETINGS 2
	PART	1 – G	ENERAL		
	1.1.		MMARY		
		Α.			ct activities, resources used, weather conditions, and other information related to the
		_	-		ne project are extremely important at all levels of Construction Management.
		В.	Daily	records provide	the base for weekly progress reports and updating progress schedules.
	1.2.			ECIFICATION SEC	
		Α.		on 01 31 19	Project Meetings
		В.		on 01 31 23	Project Management Web Site
		C.	Sectio	on 01 32 23	Photographic Documentation
	1.3.				Y ASSURANCE REQUIREMENTS
		Α.			or (GC) shall be responsible for all Construction Progress Reporting as outlined in this and
				specifications as	
		В.			daily progress journals in a format of his/her choosing provided it is legible and contains
		~			tlined in Section3.1 below.
		C.	-		cated in the job trailer and shall be reviewable by the Project Architect or City Project
			IVIdiid	ger if so request	eu.
	DART	2 _ D		- THIS SECTION	
		2 1	NODUCIS		
	PART	3 - EX	KECUTION	J	
		<u> </u>		<u>-</u>	
	3.1.	со	NTRACTO	R JOURNAL	
	•	A.			a journal of daily progress on which Work is performed by any employee or entity for
					nsible. Such reports shall include all relevant data concerning the progress of Work
					Subcontractors are responsible for and the effect of that activity on the time of
				rmance of the Co	
			1.		may not require weekly journals be kept instead of daily journals. This is at the sole
					ne City Project Manager. A daily journal will generally be required when the contract has a
					bunt of site work. A weekly journal will generally be used when a contract is interior work
				only.	suit of site work. A weekly journal will generally be used when a contract is interior work
		В.	lourn		e made on the Contractor Daily/Weekly Report Form located in the Construction Progress-
		υ.			in the Project Management Web Site. The form consists of the following areas:
			1.		ide temperature, humidity, precipitation, wind and other related information such as
					m events, times, and details.
			2.	Work complet	
			3.	Delays encoun	
			3. 4.	•	vived or delayed
			4. 5.		t need to be addressed
			5. 6.	Safety issues	
			0. 7.	•	ogress and upload to the Photo Library on the Project Management Web Site.
			7. 8.		g inspections, testing, etc.
			а. 9.		ching documents
			J.	Space for alla	

1 2		C.	Contractor Daily/Weekly Report Forms shall be completed and signed by the GC's Job Superintendent or other on-site representative authorized by the GC confirming each such report is current, accurate and complete.
3		D.	If applicable the GC shall include schedules of quantities and costs, progress schedules, wage rates, reports,
4			estimates, invoices, records and other data as requested by the CPM concerning Work performed or to be
5			performed under this Contract if the CPM determines such information is needed to substantiate Change Order
6			proposals, claims, or to resolve disputes.
7			
8	3.2.	CON	STRUCTION PROGRESS MEETINGS
9		Α.	The GC shall provide a verbal summary of the previous two (2) weeks progress reports at each bi-weekly
10			construction progress meeting.
11			
12			
13			END OF SECTION
14			

1 2					SECTION 01 33 23 SUBMITTALS
3					
4	PART	1 – GE	NERAL .		
5		l.1.			
6		L.2.			
7		L.3.		•	NTS
8					NOT USED
9					2
10		3.1.			PROCEDURES
11		3.2.			
12 13		3.3.	PROJEC	I ARCHITECTS RE	VIEW
14	PART	1 – G	ENERAL		
15	<u> </u>				
16	1.1.	SUN	IMARY		
17		A.		Seneral Contracto	or (GC) shall be responsible for providing submittals for review of all contractors and sub-
18					ted in the construction documents. Submittals shall include but not be limited to all of the
19			follov	wing:	
20			1.		cified and pre-approved in the specification; to ensure quality, construction, and
21					pecifications have not changed since final design.
22			2.		cified by performance in the specification; to ensure that the intended quality,
23			-		nd performance specified is met by the selected material or product.
24			3.		ection, and other such drawings as indicated in the specifications to ensure all structural,
25			4		nd assembly requirements are being met.
26 27			4. 5.		cating installation sequencing cating control sequencing
27			5. 6.		nsing, certification, and other such regulatory documentation when required by a
29			0.	specification.	nsing, certification, and other such regulatory documentation when required by a
30			7.		als as may be required by individual specifications.
31		В.			shall not be used to determine alternates to specified products or equipment. All
32				•	e reviewed during the bidding process and acceptable alternates shall be acknowledged by
33			adde	ndum prior to the	e closing of bidding. See bidding instructions for the information on submitting alternates
34			for co	onsideration.	
35		D.			nufacturer has significantly changed a product (discontinued a model, changed dimension
36					hanged available colors, etc.) since bid opening the GC shall submit a Request for
37					e Project Architect requesting other approved alternates prior to uploading a digital
38		_	subm		
39		Ε.			ontractors shall be responsible for knowing the submittal requirements of ALL sections
40 41					vork under the contract. The Owner reserves the right to request documentation on any or product being installed where a submittal is not on file. If the material, equipment, or
41					termined not to meet the intent of the specification the contractor/sub-contractor shall be
43					d replace the items involved. The GC shall be solely responsible for all costs associated
44				the removal and i	
45					
46	1.2.	REL	ATED RE	FERENCES	
47		Α.	Section	on 01 29 76	Progress Payment Procedures
48		В.	Section	on 01 31 23	Project Management Web Site
49		C.	Section	on 01 32 19	Submittals Schedule
50		D.		on 01 32 26	Construction Progress Reporting
51		Ε.		on 01 91 00	Commissioning
52		F.			tions, contract documents, construction drawings, and any published addendums during
53		6		idding process.	
54 E E		G.			s generated during the execution of the contract including but not limited to Requests for
55 56			mor	mation (RFI) and (Construction Bulletins (CB).
56 57	1.3.	SI IP	ΜΙΤΤΛΙ	REQUIREMENTS	
58	_ .J.	ЗОВ А.		-	I shall meet the following requirements:

1 2		 Digital submittal shall be original PDF of manufacturer's data sheets or high quality color scan of the same.
3 4		a. Submittals shall not include sales fliers or other similar documents that typically do not provide complete manufacturers data.
5		2. Documents within the PDF submittal shall be printable to a sized sheet no less than 8-1/2 by 11 inches
6		and no larger than 24 by 36 inches.
7 8		3. At the beginning of each submittal the contractor shall identify the plan reference (WC-1, EF-3, etc.) in RED block letters that the submittal is for.
9		4. Where multiple model numbers appear in a table the contractor shall identify the specific model being
10 11		submitted by using a RED square, box, or other designation to distinguish the correct model from others on the page.
12	В.	A complete submittal will include all information associated with the product or equipment as presented in
13		plans, equipment tables, and specifications. Information shall include but not be limited to the following:
14		1. Dimensional data
15		2. Performance data
16		3. Resource requirements, power, water, waste, etc
17		4. Clearance and maintenance requirements
18		5. Finish information, colors, textures, etc.
19		6. Warranty information
20	С.	Where a submittal includes material samples (carpet, tile, paint draw downs, etc.) the contractor shall do the
21		following:
22		 The Contractor shall submit the sample(s) as indicated in the specification.
23		2. The Contractor shall include a quality photograph(s) of the product with the digital submittal.
24		Photographs shall meet the following requirements:
25		a. Formatted to be between 500Kb and 1.0 Mb in file size
26		b. Have no glare or flash reflection on the sample
27		c. Sample fills the frame of the photo and shows detail as needed. Include multiple photos from
28		other angles as needed.
29		d. Scanned copies of products or photos are not acceptable.
30	D.	Uploaded submittals should be relative and related to a specific written specification.
31		1. <u>Do not</u> upload submittals under a broad category or division (I.E. HVAC 23 00 00). Always upload by the
32		specific specification that identifies a required product or performance to be met.
33		2. Group related items together if the specification is written that way. (I.E. all of the plumbing fixtures and
34		trim relative to one specific specification should be submitted together).
35 36		3. Submittals shall be grouped and adhere to the divisions in the submittal schedule. Submittals that do not conform to the submittal schedule and/or specification divisions will be rejected for re-submittal.
30 37		comorni to the submittal schedule and/or specification divisions will be rejected for re-submittal.
38	PART 2 – PR	RODUCTS – THIS SECTION NOT USED
39	<u>.,,,,,</u>	
40	<u> PART 3 - EX</u>	ECUTION
41		
42	3.1. GEN	IERAL CONTRACTORS PROCEDURES
43	Α.	All required submittals will be uploaded to the Construction Administration-Submittal Drawings Library on the
44		Project Management Web Site (PMWS) by the GC.
45		1. The GC shall open a new Submittal Form in the Submittals Drawings Library for each required submittal
46		from the Submittals schedule.
47		2. Fill in required information on the form that will be used for routing the review and comments.
48		3. Attach all documentation as described in Section 1.3 above.
49		a. Submit samples under separate cover to the Project Architect when necessary.
50	В.	Uploading the submittal indicates that the GC has reviewed and approved the submittal against the contract
51		document requirements.
52	С.	The GC shall discuss submittal status at all progress meetings and shall monitor submittal review/approval/re-
53		submittal so as to not incur delays in the project schedule.
54	D.	A completed upload of the submittal to the PMWS initiates the review process workflow.
55	Ε.	The GC and sub-contractors shall provide re-submittals as required.
56		

1	3.2.	SUBN	AITTAL REVIEW
2		Α.	Upon completion of the submittal upload by the GC the PMWS automatically notifies the appropriate
3			Architect/Engineer and Owner Representative, including CxA, by Division/Specification number that there is a
4			submittal for review.
5		В.	The submittal shall be reviewed internally by the required Architect/Engineer and Owner Representative and
6			CxA in a timely fashion and provide commentary on missing items, incorrect information, or incomplete shop
7			drawings, etc as needed.
8		C.	When the internal review is completed the PMWS will notify the Project Architect the submittal is ready for final
9			review.
10			
11	3.3.	PROJ	ECT ARCHITECTS REVIEW
12		Α.	Upon completion of the internal review the Project Architect shall review all internal review comments, confer
13			with the CPM and CxA as needed and determine the appropriate disposition status for the submittal (approved
14			or resubmit).
15		C.	The Project Architect shall summarize final internal review comments onto the submittal cover sheet, provide a
16			final disposition of the submittal and update the review status of the submittal to "Complete" (with or w/o
17			comments) or "Rejected".
18		D.	A completed Final Review status initiates the PMWS to notify the GC and appropriate sub-contractor(s) that the
19			review of the submittal has been completed.
20			
21			
22			
-			END OF SECTION
24			
23 24			END OF SECTION

1			SECTION 01 45 16					
2		FIELD QUALITY CONTROL PROCEDURES						
3								
4	PART	1 – GI	ENERAL					
5	1	1.1.	SUMMARY1					
6	1	1.2.	RELATED SPECIFICATION SECTIONS 1					
7		1.3.	PERFORMANCE REQUIREMENTS 1					
8		1.4.	QUALITY ASSURANCE					
9		1.5.	QUALITY MANAGEMENT OBSERVATION REPORT					
10			RODUCTS - THIS SECTION NOT USED					
11		-	ECUTION					
12		3.1.	QUALITY MANAGEMENT RESPONSIBILITIES					
13		3.2.	RESPONDING TO A QMO					
14 15		3.3.	QMO CLOSEOUT PROCEDURE					
15 16		3.4. 3.5.	CONSTRUCTION CLOSEOUT					
10	-	5.5.						
18	PART	1 – G	ENERAL					
19	<u>1 AIU</u>							
20	1.1.	SUN	/IMARY					
21		Α.	The City of Madison has developed a multi-faceted Quality Management Program that begins with contract					
22			signing and runs through contract closeout to ensure the best quality materials, workmanship, and product are					
23			delivered for the contracted Work.					
24			1. The Progress Management Web Site is a Construction Management tool that provides contractors and					
25			staff a single on-line location for the daily operations and progression of the Work.					
26			2. The Quality Management Observation (QMO) is an ongoing observation of the construction process as it					
27			progresses. The City of Madison does not use a "Punch List" or "Corrections List" as it is typically known					
28			throughout the construction industry. The QMO process acts as an "in progress punch list".					
29			a. By using the QMO process the City of Madison's goal is to have a zero item punch list prior to the					
30			90% progress payment and owner occupancy.					
31 32		В.	All contractors shall be required to review the specifications identified in Section 1.2 below, and other related specifications identified therein to become familiar with the terminology and expectations of this City of					
33			Madison Public Works contract.					
33 34		C.	It is the intent of this specification to outline the requirements, expectations, and responsibilities of the General					
35		С.	Contractor (GC), Project Architect, and other representatives of the Owner for items of Quality Assurance and					
36			Quality Control.					
37			1. This specification is not intended to conflict with Specification 01 40 00 Quality Requirements or other					
38			specifications requiring testing and inspecting services.					
39			2. This specification does not relieve the GC from any requirements associated with regulatory inspections					
40			performed by the City of Madison Building Inspection Unit, or inspectors from other agencies as required					
41			by code.					
42			3. Any testing performed by an Owner's Representative does not relieve the GC from performing any					
43			testing that may required by the construction documents.					
44								
45	1.2.		ATED SPECIFICATION SECTIONS					
46		A.	Section 01 26 13 Request for Information (RFI)					
47		B.	Section 01 29 76 Progress Payment Procedures					
48		C.	Section 01 31 13 Project Coordination					
49 50		D. E.	Section 01 31 23 Project Management Web Site					
50 51		Е. F.	Section 01 40 00Quality RequirementsSection 01 77 00Closeout Procedures					
52		G.	Section 01 77 00 Cosecut Proceedies Section 01 78 13 Completion and Correction List					
53		О.						
55	1.3.	PER	FORMANCE REQUIREMENTS					
55		A.	All contractors shall be responsible for a proper quality assurance/quality control (QA/QC) program throughout					
56			the execution of the Work defined within the construction documents, including all recognized construction					
57			industry standards and all applicable regulatory codes.					
58		В.	The Contractor shall be responsible for all of the following:					

			-,
1			1. Monitor the quality of all workmanship of the demolition by all contractors to ensure they meet or
2			exceed the minimum requirements set forth by the construction documents.
3			2. Submit a Request for Information (RFI) whenever construction documents conflict before proceeding
4			with the Work.
5			3. Ensure that Work requiring special certifications or licensing is being performed by is being performed
6			and supervised by personnel that meet the appropriate requirements.
7			a. Ensure that all certificates and licenses are current throughout the execution of the project.
8		C.	The City of Madison and its representatives shall perform quality assurance and quality control activities
9			throughout the execution of this project. This in no way relieves the GC of maintaining an acceptable QA/QC
10			program.
11			
12	1.4.	•	
13		А.	The Contractor shall be responsible for the following:
14			1. All Work shall be performed by persons properly trained and/or qualified to produce workmanship of the
15			quality specified in the construction documents.
16			2. Providing access to updated as-builts, addenda, submittals, bulletins and other related construction
17			documents at the project site.
18 19		В.	The City of Madison and its representatives may be responsible for any of the following: 1. Attend pre-installation meetings
20			 Attend construction progress meetings
20			 Review all submittals
22			 Conduct field visits for QA/QC purposes, provide feedback to the Contractor and sub-contractors using
23			Quality Management Observation (QMO) reports.
24			5. Review construction progress.
25			
26	1.5.	QUA	LITY MANAGEMENT OBSERVATION REPORT
27		Α.	The Quality Management Observation report or QMO is used as a QA/QC tool by those entities responsible for
28			QA/QC activities, including but not limited to, the Contractor, City of Madison, PA, CX agent, etc.
29		В.	QMOs are designed to be an early observation of non-conforming work before it becomes buried by follow on
30			work. As such it is most often used as an "in progress punch list".
31		C.	QMO forms are part of the Quality Control Library on the Project Management Web Site.
32	DADT	2 55	
33 34	PARI	<u>2 - PR</u>	ODUCTS - THIS SECTION NOT USED
35	PART	3 - FXF	CUTION
36	<u>1 ANI</u>		
37	3.1.	QUA	LITY MANAGEMENT RESPONSIBILITIES
38		A.	While making routine progress visits to the construction project the Contractor, CCM, and A/E, and applicable
39			others shall observe the details of the demolition to ensure that the intent of the construction documents is
40			being followed.
41		В.	If during the progress visit there is a determination of contract non-conformance a QMO report shall be initiated
42			to begin the documentation process.
43			1. The GC field superintendent shall be informed immediately of any issue that may cause harm, damage to
44			finished work, or be buried prior to properly filing a QMO report.
45		C.	The following information when filing a QMO report:
46			1. Open a QMO report in the Quality Control Library on the Project Management Web Site
47			2. Enter the date and time of the field visit
48			2. Provide references to construction documents if any (examples; specification, drawing page, details,
49			approved submittals, RFI, CB, etc)
50			 Provide a short title for the observation being made Dravide a detailed description of the observation being made
51 52			 Provide a detailed description of the observation being made Select all extensions from the given list that may apply to the observation being reported
52 52			5. Select all categories from the given list that may apply to the observation being reported.
53 54			a. For each category selected additional boxes shall open with contractor names associated with each category
54 55			each category.6. Select all contractors from the lists provided that may need to be aware of the observation.
56			 Provide any attachments that may help provide reference to the observation.
57			 Click the SAVE button before closing the form.

1		D.	The software for the Project Management Website will email notifications that a QMO report has been initiated.
2		D.	The software will automatically select and notify the following:
3			1. The GC, PA, and CCM for all observation reports being filed.
4			 Others depending on the observation categories selected.
5			 Contractors based on the selections made in the sub-contractors lists.
6			
7	3.2.	RESPO	ONDING TO A QMO
8		Α.	All contractors receiving email notification of a QMO Observation shall review the details of the observation.
9		В.	The GC shall be responsible for determining the course of action required to remedy the non-conforming issue
10			and shall coordinate and direct the contractor(s) responsible for any work related to the observation.
11		C.	All contractors assigned to remedy the observation by the GC shall provide follow-up responses on the QMO
12			report as follows:
13			1. Open the QMO report in the Quality Control Library on the Project Management Web Site.
14			2. In the "Follow-Up Response" area enter a description of your follow-up response in the box provided.
15			a. Click "Insert Item" if additional boxes are required.
16			3. Add attachments (pictures) if needed to show the work has been completed.
17			4. Click the SAVE button before closing the form.
18		-	
19	3.3.		RAL CONTRACTORS FOLLOW-UP
20		Α.	The GC shall inspect the work to ensure that all assigned contractors have remedied the observation to the
21			intent of the construction documents.
22		В.	The GC shall respond with any additional comments in his/her response box.
23 24			 If no comments are to be made the GC at a minimum must date the response box to trigger the next work flow.
24 25		C.	Click the SAVE button before closing the form.
26		D.	The software will email a notification to the CPM and the person who initiated the QMO that the issue has been
20		D.	remedied.
28			remedica.
29	3.4.	QMO	CLOSEOUT PROCEDURE
30		A.	The person who initiated the QMO shall review the remedied work and if properly corrected shall close and date
31			the QMO form.
32			1. Click SAVE and the software will email a notification to the CPM that final review of the Observation is
33			required.
34			2. In the event there are still issues the Quality Manager can add additional comments in the response area,
35			click SAVE and re-issue the QMO for additional review as needed.
36		В.	Once the person who initiated the QMO has closed the item the CPM shall review and verify with the PA that the
37			Observation has been properly remedied and provide final closure on the QMO.
38	-		
39	3.5.		
40		A.	The GC shall note that successful close out QMOs are required for construction closeout as follows:
41		1.	Certain progress payments as identified in Specification 01 29 76 are contingent QMO reports being properly
42		2	closed out.
43		2.	Specification 01 77 00 defines all construction closeout requirements.
44 45			
45 46			
40 47			END OF SECTION
47			
-10			

1		SECTION 01 50 00	
2 3		TEMPORARY FACILITIES AND CONTR	OLS
4	PART 1 –	GENERAL	
5	1.1.		
6	1.2.	RELATED SPECIFICATION SECTIONS	
7	1.3.	QUALITY ASSURANCE	
8	1.4.	TEMPORARY UTILITIES	
9	1.5.	TELECOMMUNICATIONS SERVICES AND WI-FI	ERROR! BOOKMARK NOT DEFINED.
10	1.6.	TEMPORARY SANITARY FACILITIES	
11	1.7.	BARRIERS	
12	1.8.		
13	1.9.	EXTERIOR ENCLOSURES	ERROR! BOOKMARK NOT DEFINED.
14	1.10		
15	1.11		
16	1.12		
17	1.13		
18	1.14		
19		PRODUCTS	
20	2.1.		
21	2.2.		
22	-	EXECUTION	-
23	3.1.		-
24	3.2.		
25 26	3.3. 3.4.		
29 30			
		UMMARY This Section includes general procedural requirements for tempor	rary facilities and controls including but not
31	1.1. S A	. This Section includes general procedural requirements for tempor	rary facilities and controls including, but not
31 32	-	. This Section includes general procedural requirements for tempor limited to the following:	rary facilities and controls including, but not
31 32 33	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 	rary facilities and controls including, but not
31 32 33 34	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 	rary facilities and controls including, but not
31 32 33	-	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities 	rary facilities and controls including, but not
31 32 33 34 35	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 	rary facilities and controls including, but not
31 32 33 34 35 36	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 	rary facilities and controls including, but not
31 32 33 34 35 36 37	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38 39	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 7. Security 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38 39 40	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 7. Security 8. Vehicular Access and Parking 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38 39 40 41	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 7. Security 8. Vehicular Access and Parking 6. Waste Removal 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38 39 40 41 42	-	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 7. Security 8. Vehicular Access and Parking 6. Waste Removal 7. Project Identification 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38 39 40 41 42 43	A	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 7. Security 8. Vehicular Access and Parking 6. Waste Removal 7. Project Identification 	rary facilities and controls including, but not
31 32 33 34 35 36 37 38 39 40 41 42 43 44	A	 This Section includes general procedural requirements for tempor limited to the following: 1. Temporary Utilities 2. Telecommunications Services 3. Temporary Sanitary Facilities 4. Barriers 5. Fencing 6. Exterior Enclosures 7. Security 8. Vehicular Access and Parking 6. Waste Removal 7. Project Identification 8. Field Offices 	rary facilities and controls including, but not
31 32 33 33 33 33 33 33 33 33 33 33 33 33	A 1.2. R	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS	rary facilities and controls including, but not
31 32 33 33 33 33 33 33 33 33 33 33 33 33	1.2. R	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site 	
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	1.2. R A B	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site 	
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	1.2. R A B C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Display 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 9 50 551	1.2. R A B C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	1.2. R A B C 1.3. C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di UALITY ASSURANCE Regulations: Comply with industry standards and applicable laws jurisdiction, including but not limited to: 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	1.2. R A B C 1.3. C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	1.2. R A B C 1.3. C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di CUALITY ASSURANCE Regulations: Comply with industry standards and applicable laws jurisdiction, including but not limited to: Building Code requirements Health and safety regulations 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 950 55 55 55 55 55	1.2. R A B C 1.3. C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di QUALITY ASSURANCE Regulations: Comply with industry standards and applicable laws jurisdiction, including but not limited to: Building Code requirements Health and safety regulations Utility company regulations 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 950 55 55 55 55 56	1.2. R A B C 1.3. C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di EUALITY ASSURANCE Regulations: Comply with industry standards and applicable laws jurisdiction, including but not limited to: Building Code requirements Health and safety regulations Utility company regulations Police, Fire Department and Rescue Squad rules 	sposal
31 332 333 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 950 55 55 55 55 55	1.2. R A B C 1.3. C	 This Section includes general procedural requirements for tempor limited to the following: Temporary Utilities Telecommunications Services Temporary Sanitary Facilities Barriers Fencing Exterior Enclosures Security Vehicular Access and Parking Waste Removal Project Identification Field Offices ELATED SPECIFICATION SECTIONS Section 01 31 19 Progress Meetings Section 01 31 23 Project Management Web Site Section 01 74 19 Construction Waste Management and Di QUALITY ASSURANCE Regulations: Comply with industry standards and applicable laws jurisdiction, including but not limited to: Building Code requirements Health and safety regulations Utility company regulations 	sposal

1		В.	Standards: Comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition
2			Operations," ANSI A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA
3			Electrical Design Library "Temporary Electrical Facilities".
4		C.	Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service.
5			Install service in compliance with NFPA 70 "National Electric Code".
6		TENAD	
7	1.4.		ORARY UTILITIES
8		A.	Contractor will provide the following:
9 10			 Electrical power and metering. Water supply for dust control.
10			 Water supply for dust control. i. Use trigger-operated nozzles for water hoses, to avoid waste of water.
12		В.	Temporary Lighting: Electrical Contractor shall provide temporary lighting with local switching
13		Б.	1. Install and operate temporary lighting, minimum of 30 fc, to fulfill security and protection requirements,
14			without operating the entire system, and will provide adequate illumination for all areas of work,
15			including construction operations and traffic conditions.
16			
17	1.5.	ТЕМР	ORARY SANITARY FACILITIES
18		Α.	Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
19		в.	Temporary toilets: Comply with regulations and health codes for the type, number, location, operation, and
20			maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.
21			1. Provide toilet tissue, paper towels, paper cups, and similar disposable materials foreach facility. Provide
22			covered waste containers for used material.
23			2. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy.
24		C.	Maintain daily in clean and sanitary condition
25		D.	Water: Provide potable water approved by local health authorities
26			
27	1.6.	BARR	
28		A.	Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be
29			hazardous to workers or the public and to protect existing facilities and adjacent properties from damage from
30			construction operations and demolition.
31	17	FENC	
32 33	1.7.	FENCI A.	Construction: Refer to Plan Documents and Specification Section 01 76 00: Fencing Materials and Barricades
33 34		А.	construction. Refer to Flan Documents and Specification Section 01 70 00. Fencing Materials and Barricades
35	1.8.	SECU	RITV
36	1.0.	A.	Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized
37		<i>,</i>	entry, vandalism, or theft.
38			
39	1.9.	VEHIC	CULAR ACCESS AND PARKING
40		Α.	Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for
41			emergency vehicles.
42		В.	Coordinate access and haul routes with governing authorities and Owner.
43		C.	Provide and maintain access to fire hydrants, free of obstructions.
44			
45	1.10.	WAST	TE REMOVAL
46		Α.	See Section 01 74 19 - Waste Management, for additional requirements.
47		В.	Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
48		C.	Provide containers with lids. Remove trash from site periodically.
49		D.	If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible
50			containers; locate containers holding flammable material outside the structure unless otherwise approved by the
51		-	authorities having jurisdiction.
52		Ε.	Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.
53		P	Front on site at leastion determined by Owner
54		B.	Erect on site at location determined by Owner .
55 56		C.	No other signs are allowed without Owner permission except those required by law.
56 57			
57			

PART 2 - PRODUCTS 1 2

3 2.1. EQUIPMENT

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- Temporary Lifts and Hoists: Contractors requiring temporary lifts and hoists shall provide facilities for hoisting Α. materials and employees.
- Β. Electrical Outlets: Electrical Contractor shall provide properly configured NEMA polarized outlets to prevent insertion of 110-120 volt plugs into higher voltage outlets. Provide receptacle outlets equipped with ground-fault circuit interrupters, reset button and pilot light, for connection of power tools and equipment.
- 9 C. Electrical Power Cords: Contractors requiring power cords shall provide grounded extension cords; use "hard-10 service" cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas where construction activities are in progress. Do 11 not exceed safe length-voltage ratio. 12
- 13 D. Lamps and Light Fixtures: Electrical Contractor shall provide general service incandescent lamps of wattage 14 required for adequate illumination. Provide guard cages or tempered glass enclosures, where exposed to 15 breakage. Provide exterior fixtures where exposed to moisture.
 - F. First Aid Supplies: General Contractor shall provide first aid supplies complying with governing regulations.
- 17 G. Fire Extinguishers: General Contractor shall provide hand-carried, portable UL-rated, fire extinguishers of NFPA 18 recommended classes for the exposures, extinguishing agent and size required by location and class of fire 19 exposure.

21 PART 3 - EXECUTION

23 3.1. **TEMPORARY FIRE PROTECTION**

- Α. Contractor shall install and maintain temporary fire protection facilities of the types needed to protect against reasonably predictable and controllable fire losses.
- Β. Comply with NFPA 10 "Standard for Portable Fire Extinguishers," and NFPA 241 "Standard for Safeguarding Construction, Alterations and Demolition Operations".
- C. Locate fire extinguishers where convenient and effective for their intended purpose.
- 29 D. Store combustible materials in containers in fire-safe locations.
 - Ε. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities, stairways and other access routes for fighting fires.
- F. 32 Prohibit any use of tobacco products on the premises.
- 33 G. Supervise sources of fire ignition according to requirements of authorities having jurisdiction.
- 34 Н. Develop and supervise an overall fire-prevention and protection program for personnel at project site
- 35 Ι. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods 36 and procedures. Post warnings and information.

COLLECTION AND DISPOSAL OF WASTE 38 3.2.

- Α. Collect waste from construction areas and elsewhere daily
- Β. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly.
- C. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

45 3.3. ENVIRONMENTAL PROTECTION

- 46 Α. Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply 47 with environmental regulations, and minimize the possibility that air, waterways and subsoil might be 48 contaminated or polluted, or that other undesirable effects might result.
 - Β. Avoid use of tools and equipment which produce harmful noise.
- 50 C. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons or firms 51 near the site.

REMOVAL OF TEMPORARY UTILITIES. FACILITIES. AND CONTROLS 53 3.4.

- 54 Remove temporary utilities, equipment, facilities, and materials prior to Substantial Completion inspection. Α.
- 55 Β. Remove underground installations and grade site as indicated. 56
 - C. Clean and repair damage caused by demolition or use of temporary work.
- 57 D. Restore existing facilities to the condition that existed prior to demolition.
- 58

END OF SECTION

1 2 3			SECTION 01 73 29 CUTTING AND PATCHING
3 4	DART	1_6	NERAL
5		1.1.	SUMMARY
6		1.2.	RELATED SPECIFICATION SECTIONS
7		1.3.	DEFINITIONS
8		1.4.	QUALITY ASSURANCE
9		1.5.	WARRANTY
10		-	ATERIALS
11		2.1.	GENERAL
12			ECUTION
13		3.1.	EXAMINATION
14		3.2.	PREPARATION
15		3.3.	PERFORMANCE
16	3	3.4.	CLEANUP AND RESTORATION
17 18	PART	1 – G	ENERAL
19 20	1.1.	SUN	IMARY
21		A.	This Section includes general procedural requirements for cutting and patching including, but not limited to the
22			following:
23			1. Examination
24			2. Preparation
25			3. Performance
26			4. Cleanup and Restoration
27			
28	1.2.	REL	ATED SPECIFICATION SECTIONS
29		Α.	Divisions 02 through 32 Sections for specific requirements and limitations applicable to cutting and patching
30			individual parts of the Work.
31		В.	Division 07 Section "Penetration Fire Stopping" for patching fire-rated construction.
32 33	1.3.		
33 34	1.5.		INITIONS Cutting: Removal of in-place construction necessary to permit installation or performance of other Work.
35		А. В.	Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other
36		υ.	Work.
37		C.	Level Alpha
38		с.	
39	1.4.	ou	ALITY ASSURANCE
40		A.	Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying
41			capacity or load-deflection ratio.
42		В.	Operational Elements: Do not cut and patch operating elements and related components ina manner that results
43			in reducing their capacity to perform as intended or that may result in increased maintenance or decreased
44			operational life or safety.
45		C.	Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that
46			could change their load-carrying capacity that results in reducing their capacity to perform as intended, or that
47			may result in increased maintenance or decreased operational life or safety. Some miscellaneous elements
48			include the following:
49			1. Water, moisture, or vapor barriers
50			2. Membranes and flashings
51			3. Exterior curtain-wall construction
52			4. Equipment supports
53			5. Piping, ductwork, vessels, and equipment
54			6. Noise and vibration control elements and systems
55		D.	Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and
56			patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that
57			would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has
го			have get and natched in a viewally uncertificatory manner

been cut and patched in a visually unsatisfactory manner.

1 **1.5. WARRANTY**

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- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.
- B. All cutting and patching work performed under this contract shall be warranted like new work as defined by the Specification governing the work.

PART 2 - MATERIALS

9 2.1. GENERAL

- A. Comply with requirements specified within other sections of the Specifications.
- B. In-Place Materials: Use materials identical to existing in-place materials. For exposed surfaces use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place materials.

16 PART 3 - EXECUTION

- 18 **3.1. EXAMINATION**
 - A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
 1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including
 - compatibility with in-place finishes or primers.Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

23 24 **3.2. PREPARATION**

- 25 A. Temporary Support: Provide temporary support of Work to be cut.
- B. Protection: Protect in-place construction and existing conditions during cutting and patching to prevent damage.
 Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting
 and patching operations. If the failure to protect, or the lack of protection, of in-place construction and/or
 existing conditions results in damage, the contractor shall be responsible for repair to previous condition.
 Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be
 removed, relocated, or abandoned, bypass such services/systems before cutting to eliminate interruption to
 occupied areas.

35 3.3. PERFORMANCE

36 General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the Α. 37 earliest feasible time, and complete without delay. 38 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition. 39 40 Β. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, 41 including excavation, using methods least likely to damage elements retained or adjoining construction. If 42 possible, review proposed procedures with original Installer; comply with original Installer's written 43 recommendations. 44 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and 45 chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance 46 of adjacent surfaces. Temporarily cover openings when not in use. 2. 47 Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces. Concrete or Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill. 48 3. 49 4. Excavating and Backfilling: Comply with requirements in applicable Division 3I Sections where required by 50 cutting and patching operations. 51 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, 52 valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other 53 foreign matter after cutting. 54 Proceed with patching after construction operations requiring cutting are complete. 6. 55 C. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following 56 performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and 57 comply with installation requirements specified in other Sections.

1		D.	Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of
2			installation.
3			
4	3.4.	CLEA	NUP AND RESTORATION
5		Α.	Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a
6			manner that will eliminate evidence of patching and refinishing.
7			1. Clean piping, conduit, and similar features before applying paint or other finishing materials.
8			2. Restore damaged pipe covering to its original condition.
9			3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another,
10			patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish,
11			color, texture, and appearance. Remove in-place floor and wall coverings and replace with new
12			materials, if necessary, to achieve uniform color and appearance.
13			4. Where patching occurs in a painted surface, apply primer and intermediate paint coats over the patch
14			and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats
15			until patch blends with adjacent surfaces.
16			5. Cleaning: Clean areas and spaces where cutting and patching are performed.
17			
18			
19			
20			
21			END OF SECTION
22			

1 2	SECTION 01 74 13 PROGRESS CLEANING											
3												
4	PART 1 – GENERAL											
5 6	-	1.1. 1.2.										
7		1.2.		1								
8		-	•••	1								
9		2.1.		QUIPMENT								
10				1								
11	3	3.1.	SAFETY CLEANING									
12	3	3.2.	PROJECT SITE CLEANING	2								
13	3	3.3.		ERROR! BOOKMARK NOT DEFINED.								
14		3.4.		ERROR! BOOKMARK NOT DEFINED.								
15 16		3.5.	CALL BACK WORK	ERROR! BOOKMARK NOT DEFINED.								
16 17 18	PART	1 – G	ENERAL									
19	1.1.	SUN	IMARY									
20		Α.	Throughout the execution	of this contract all contractors shall be responsible for maintaining the project site in a								
21				escribed in this specification.								
22		В.		mply with the requirements for cleaning as described in other specifications.								
23		C.		fication shall include but not be limited to:								
24			1. Safety Cleaning									
25 26			 Project Site Cleanin Progress Cleaning 	5								
20			4. Final Cleaning									
28												
29	1.2.	REL	ATED SPECIFICAITONS									
30		Α.	Section 01 35 00 Sp	ecial Procedures								
31		В.		oduct Requirements								
32		C.		nstruction Waste Management and Disposal								
33 34		D.	Section 01 76 00 Pr	otecting Installed Construction								
34 35	1.3.	ou	ALITY ASSURANCE									
36	2.01	до , А.) shall conduct daily inspections, more often if necessary, of the entire project site to								
37				cleanliness are being met as described within these specifications.								
38		В.	All contractors shall compl	with other regulatory requirements as they apply to waste recycling, reuse, hauling,								
39				of any governmental authority having jurisdiction.								
40		C.		ht to have work done by others in the event any contractor fails to perform cleaning								
41				pecifications. The cost of any Owner provided cleaning shall be charged to the								
42			contractor through a dedu	t change order.								
43 44	DART	2 - PR	ODUCTS									
45		2-11										
46	2.1.	CLE	ANING MATERIALS AND EQUI	PMENT								
47		Α.	The Contractor shall provid	e all required personnel, equipment, and materials necessary to maintain the								
48			required level of cleanlines	s as described in this specification.								
49												
50 51	PARI	3 - EX	ECUTION									
51	3.1.	SAF	ETY CLEANING									
53		A.		ponsible for safety cleaning as required by OSHA and other regulatory requirements								
54			as applicable.									
55		В.		e but not be limited to the following:								
56				ageways, ramps, and stairs shall be kept free of debris, scrap materials, pallets, and								
57				at would obstruct exiting routes. Small items such as tools, electrical cords, etc are								
58			picked up when no	in use.								

1			2.	Spills of oil, grease, and other such liquids shall be cleaned immediately or sprinkled with sand/oil-dry
2				first, then cleaned.
3			3.	Oily, flammable, or hazardous items shall be stored in appropriate covered containers and storage
4				devices unless actively being used.
5			4.	Oily, or flammable rags, and other such waste shall only be disposed of in authorized covered containers.
6			5.	Disposal by burning shall not be allowed at any time.
7				
8	3.2.	PRO	ECT SIT	E CLEANING
9		Α.	This s	ection applies to the general cleanliness of the project site as a whole for the duration of the execution of
10			this c	ontract.
11		В.	Exteri	or Project Site Areas
12			1.	The GC and other Contractors as appropriate shall ensure the following levels of cleanliness are applied
13				to the exterior project site areas.
14				a. The overall appearance of the project site is neat and orderly. Defined areas for material storage,
15				material waste, job trailers, and the project area are clean and well maintained.
16				b. The construction fence is maintained, erect with no gaps, and properly posted per all regulatory
17				requirements.
18				c. All erosion control measures are properly maintained, cleaned, and repaired as necessary.
19				d. All loose materials (construction or waste) are properly tied or weighted down to resist blowing.
20				e. Dust control is applied as necessary or as required by any regulatory requirement.
21				f. Paved areas shall be clean, free of dirt, oily stains and other such blemishes
22				
23				
24				
25				
26				END OF SECTION
27				

1 2			SECTION 01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
2			CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
4	PART	1 – GI	ENERAL
5		.1.	SUMMARY
6	1	.2.	RELATED SPECIFICAITONS
7	1	.3.	CITY ORDINANCES
8	1	L.4.	DEFINITIONS1
9	1	l.5.	PERFORMANCE REQUIREMENTS
10	1	.6.	SUBMITTALS AND DELIVERABLES
11	1	7.	QUALITY ASSURANCE
12		.8.	WASTE MANAGEMENT PLAN
13			RODUCTS – THIS SECTION NOT USED
14			ECUTION
15		8.1.	PLAN IMPLEMENTATION
16		3.2.	HAZARDOUS AND TOXIC WASTE
17		3.3.	GENERAL GUIDELINES FOR ALL WASTES
18		3.4.	GUIDELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE
19	3	3.5. GUIDELINES FOR DISPOSAL OF WASTES	
20	DADT	NRT 1 – GENERAL	
21	PARI	<u>1 - G</u>	ENERAL
22 23	1.1.	CI 18	ИМАRY
23 24	1.1.	A.	This specification includes administrative and procedural requirements for the recycling, re-use, salvaging, and
24		д.	disposal of non-hazardous construction and demolition waste.
26		В.	The General Contractor (GC) shall be fully responsible for complying with all applicable ordinances and other
27		Ъ.	such regulatory requirements during the execution of this contract.
28			such regulatory requirements during the excedition of this contract.
29	1.2.	RFI	ATED SPECIFICAITONS
30		A.	01 29 76 Progress Payment Procedures
31		В.	01 31 23 Project Management Web site
32		С.	01 32 19 Submittals Schedule
33		D.	01 33 23 Submittals
34		Ε.	01 77 00 Closeout Procedures
35		F.	Other Divisions and Specifications that may address the proper disposal of construction or demolition waste as it
36			pertains to work being conducted under that particular specification.
37			
38	1.3.	CITY	Y ORDINANCES
39		Α.	There are two (2) Madison General Ordinances (MGO) that the City of Madison has regarding construction and
40			demolition waste.
41			1. MGO 10.185, Recycling and Reuse of Construction and Demolition Debris, describes the requirements
42			associated with this ordinance including definitions, documentation requirements, and penalties.
43			2. MGO 28.185, Approval of Demolition (Razing, Wrecking) and Removal, describes the requirements
44			associated with applying for and receiving a demolition permit.
45		В.	All City of Madison, Board of Public Works, contracts being conducted by City Engineering, Facility Management,
46			for construction, remodeling, or demolition shall comply with the above ordinances regardless of project type or
47			size.
48			
49	1.4.		INITIONS
50		Α.	Clean: Untreated and unpainted material, free of contamination caused by oils, solvents, caulks, and other
51			chemicals.
52		В.	Construction and Demolition Debris: Materials resulting from the construction, remodeling, repair, and
53		-	demolition of utilities, structures, buildings, and roads.
54		C.	Disposal: Off-site removal of construction and demolition debris and the subsequent sale, recycling, reuse, or
55		-	deposit in authorized landfill or incinerator.
56		D.	Hazardous: Exhibiting the characteristics of hazardous substance, i.e. ignitability, corrosiveness, toxicity, or
57		-	reactivity and including but not limited to asbestos containing materials, lead, mercury and PCBs.
58		Ε.	Non-hazardous: Exhibiting none of the characteristics of a hazardous substance.

1		F.	Nontoxic: Not immediately poisonous to humans or poisonous after a long period of exposure.
2		G.	Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured
3			into a new product.
4		Н.	Recycle: Any process by which construction or demolition debris is diverted from final disposal as solid waste at
5			a permitted landfill and instead is collected, separated, and/or processed into raw materials for new, reused, or
6			reconstituted products; or for the recovery of materials for energy production processes.
7		١.	Recycler: Any recycling facility, transfer station, or other waste handling facility which accepts construction and
8			demolition debris for recycling, or for other transferring to a recycling facility.
9		J.	Recycling: The process of sorting, cleaning, treating, or reconstituting solid waste and other discarded materials
		J.	for the purpose of preparing the material to be recyclable. Recycling does not include burning, incinerating or
10			
11		1Z	thermally destroying waste.
12		К.	Return: To give back reusable items or unused products to vendors for credit.
13		L.	Reuse: Shall mean any of the following:
14			1. The on-site use of reprocessed construction and demolitions debris.
15			2. The off-site redistribution of a material, for use in the same manner or similar manner at another
16			location.
17			3. The use of non-toxic, clean wood as an alternative fuel source.
18		M.	Salvage: To remove a waste material from the project site for resale or reuse by the Owner or others.
19		N.	Toxic: Poisonous to humans either immediately or after a long period of exposure.
20		0.	Trash: Any product or material unable to be re-used, returned, recycled, or salvaged.
21		Ρ.	Waste: Extra materials or products that have reached the end of its useful life or its intended use. Waste
22			includes salvageable, returnable, recyclable and re-useable construction and demolition materials, and trash.
23			
24	1.5.	PERF	ORMANCE REQUIREMENTS
25		A.	The GC shall develop a Waste Management Plan that results in end-of-project rates for salvage/recycling/reuse
26			of 95 percent (minimum) by weight of the total waste generated by the Work. Percentages may be adjusted on
27			a project by project basis depending on selected LEED goals associated with the project.
28		В.	The GC shall salvage or recycle 100 percent of all uncontaminated packaging materials including but not limited
29			to the following:
30			1. Paper
31			2. Cardboard
32			3. Beverage containers
33			4. Boxes
34			5. Plastic Sheet and film
35			6. Polystyrene packaging
36			7. Wood crates and pallets
37			8. Plastic pails and buckets
		C.	
38		ι.	Promote a resourceful use of supplies and materials through proper planning and handling. Generate the least
39 40			amount of waste possible by minimizing errors, poor planning, breakage, mishandling, contamination or other
40		5	similar factors.
41		D.	Use all reasonable means to divert construction waste from landfills and incinerators through recycling, reuse, or
42			salvage as appropriate.
43			
44	1.6.		AITTALS AND DELIVERABLES
45		Α.	The GC shall provide his/her completed Waste Management Plan to the Project Management Web Site as a
46			submittal for review by the Project Architect and City Project Manager.
47			1. See item 1.8 below for Waste Management Plan submittal requirements.
48			2. The Waste Management Plan shall be completed, submitted, and approved as a pre-requisite for
49			Progress Payment number 1.
50			3. Copies of all documentation required by this specification shall be submitted to the appropriate Project
51			Management Web Site Library. Documentation shall be reviewed by the City Project Manager during all
52			Progress Payment reviews for compliance and accuracy.
53		В.	The Waste Management Coordinator shall provide copies of items 1 through 5 below to the appropriate Project
54			Management Web Site Library and shall update the Waste Management Summary Log to reflect the records
55			being submitted.
56			1. Records of Donations: Indicate receipt and acceptance of itemized salvageable waste donated to
57			individuals or organizations. Indicate if the organization is tax exempt.
			- · ·

1			2. Records of Sales: Indicate receipt and acceptance of itemized salvageable waste sold to individuals or						
2			organizations. Indicate if the organization is tax exempt.						
3			3. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by						
4			recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts and						
5			invoices. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and						
6			Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and						
7			incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts and invoices.						
8			5. Statement of Refrigerant Recovery: The Refrigerant Recovery Technician responsible for recovering						
9			refrigerant shall provide the GC with a statement indicating all of the following:						
10			a. All recovery was performed according to EPA Regulations.						
11			b. All refrigerant present was recovered; indicate the total quantity recovered by unit.						
12			c. Date of Recovery.						
13			d. Name, address, company name, and phone number of technician performing the recovery.						
14			e. Technician shall sign and date the statement.						
15		C.	LEED Submittal: The GC shall provide the following information using the appropriate LEED letter template upon						
16			project completion: indicating that the requirements of the credit have been met. NOTE: This requirement shall						
17			only apply to projects having a LEED certification goal.						
18			1. Total waste material generated.						
19			2. Total waste material diverted by diversion method; recycling, salvage, re-use, etc.						
20			3. Statement that the credit requirements have been met.						
21			4. GC shall sign the letter.						
22									
23	1.7.	QUAL	ITY ASSURANCE						
24		Α.	Waste Management Coordinator: The GC shall be responsible for designating a Waste Management						
25			Coordinator. Coordinator may be the GC Supervisor, GC Project Manager or other member of the GC staff						
26			having knowledge of proper waste management procedures and all applicable regulations.						
27		В.	Regulatory Requirements: comply with all hauling and disposal regulations of authorities having jurisdiction.						
28		C.	Waste Management Coordinator shall comply with Specification 01 31 19 Project Meetings, Section 3.7.B.1						
29			d conduct a Waste Management Conference at the job site. This conference shall be repeated as necessary as						
30			tional trades are added to the Work. The conference shall include but not be limited to the following:						
31			Identify the Waste Management Coordinator; provide trade contractors with name, phone, and email						
32			information.						
33			2. Review and discuss the Waste Management Plan and the roles of the Coordinator.						
34			Review the requirements for documenting and reporting procedures of each type of waste and its						
35			disposition.						
36			4. Review procedures for material separation; indicate availability and locations of containers and bins.						
37			Review procedures for periodic waste collection and transportation to recycling and disposal facilities.						
38			6. Review waste management procedures specific to each trade.						
39		D.	Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.						
40			· · · · · · ·						
41	1.8.	WAST	E MANAGEMENT PLAN						
42		Α.	Develop a plan consisting of waste identification, a waste reduction work plan, and cost/revenue analysis.						
43			Indicate quantities by weight or volume. Use the same units of measure throughout the waste management						
44			plan.						
45			1. Waste Identification: Indicate anticipated types and quantities of site clearing, demolition waste, and						
46			construction waste that will be generated during the execution of this contract. Include assumptions for						
47			the estimates.						
48			Waste Reduction Work Plan: The work plan shall consist of but not be limited to all of the following:						
49			a. Identify methods for reducing construction waste. Re-using, framing and forming materials, re-						
50			planning material cuts to minimize waste, etc.						
51			b. Identify what types of materials will be recycled. Provide lists of local companies that receive						
52			and/or process the materials. Include names, addresses, and phone numbers.						
53			c. Identify what types of materials will be disposed of and whether it will be disposed of in a landfill						
54			facility or by incineration facility. Provide lists of local companies that receive and/or process the						
55			materials. Include names, addresses, and phone numbers.						
56			d. Identify methods to be used on site for separating waste including all of the following:						
57			i. Sizes of containers to be used.						
58			ii. Labels to be used on the containers to identify the type of waste allowed in the container.						

1			iii. Designated locations on the project site for waste material containers.
2		В.	If project requires demolition incorporate the ordinance required (MGO 28.185) Recycling and Reuse Plan into
3			the Waste Management Plan.
4		C.	Provide all of the following for the Waste Management Coordinator:
5			1. Name, employer, employer address, phone number, and email address of the designated coordinator.
6			a. The GC shall also provide this information with the required Project Directory Submittal at the
7		_	beginning of the project.
8		D.	If at the option of the GC, he/she chooses to contract with a Waste Management Disposal Company that allows
9			comingled and unsorted waste materials, the GC shall include with his/her Waste Management Plan the
10			following:
11			1. Name, address, phone number, state permitting information, and other pertinent information about the
12			disposal company.
13			2. Documentation from the disposal company indicating company policies and procedures regarding
14			comingled and unsorted waste materials to include:
15 16			 a. GC responsibilities on the project site. b. Disposal company procedures for receiving, sorting, recycling, and disposing of comingled and
16 17			 Disposal company procedures for receiving, sorting, recycling, and disposing of comingled and unsorted waste material.
18			
18	DADT	2 _ DP(ODUCTS – THIS SECTION NOT USED
20	FALL	<u>2 - FN</u>	ODOCTS - THIS SECTION NOT OSED
20	PΔRT	3 - FXF	CUTION
22	FANI	<u>J - LAL</u>	
23	3.1.	ΡΙΔΝ	I IMPLEMENTATION
24	5.1.	A.	Implement the approved waste management plan. Provide adequate containers, storage space, signage,
25		,	transportation and other items required to implement the plan during the execution of this contract.
26		В.	The GC and Waste Management Coordinator shall be responsible for monitoring and reporting the status of the
27		5.	Waste Management Plan and shall monitor the waste management practices on site as frequently as needed.
28		C.	Train all workers, sub-contractors, and suppliers on proper waste management procedures as appropriate for
29		-	the work being conducted on the project site.
30			1. Distribute the waste management plan to everyone concerned within seven (7) days of submittal
31			approval.
32			2. Distribute the waste management plan to new workers, sub-contractors, and suppliers when they first
33			appear on the project site.
34			3. Conduct additional training as needed during the execution of the contract to keep a positive focus on
35			the waste management plan.
36		D.	Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways,
37			and other adjacent and used facilities.
38			1. Designate and label specific areas on the project site necessary for separating materials to be salvaged,
39			recycled, reused, donated, and sold.
40			2. Comply with any specification or regulatory requirements pertaining to dust, dirt, environmental
41			protection, and noise control.
42			
43	3.2.	HAZA	ARDOUS AND TOXIC WASTE
44		Α.	The Owner shall be responsible under separate contract for the removal of any asbestos related materials. All
45			other materials shall be removed by the GC.
46		В.	All hazardous and toxic waste shall be separated, stored, and disposed of according to all applicable regulations.
47		C.	All hazardous and toxic materials on site shall have a Material Safety and Data Sheet (MSDS) available that
48			indicates storage requirements, emergency information, and disposal requirements as necessary.
49			
50	3.3.		ERAL GUIDELINES FOR ALL WASTES
51		А.	Recycle all paper and beverage containers used by workers, sub-contractors, suppliers and visitors to the project
52		-	site.
53		В.	All revenues, savings, rebates, tax credits, and other such incentives received from recycling, reusing, or
54		~	salvaging waste materials shall accrue to the GC unless specified otherwise in the contract documents.
55		C.	Separate recyclable, reusable, and salvageable waste from other waste materials, trash, and debris except where
56			Waste Management Disposal Company allows comingled waste materials, see section 1.8.D above.
57 E 0			1. Separate by type in appropriate containers or designated areas according to the approved waste
58			management plan away from the construction area. Do not store within the drip lines of existing trees.

1			2. Inspect containers and bins frequently for contamination and inappropriately sorted materials. Remove
2			contaminated materials and resort as necessary.
3			3. Stockpile bulk materials such as sand, topsoil, stone, etc., on site away from the construction area and
4			without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water, and
5			cover to prevent windblown dust. Do not store within the drip lines of existing trees.
6			4. Whenever possible store items off the ground and/or protect them from the weather.
7			
8	3.4.	GUID	ELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE
9		Α.	The following guidelines is not a complete or all inclusive list and shall be adjusted as needed by the methods
10			and procedures identified in the Waste Management Plan.
11		В.	Asphalt Paving: Break-up into transportable pieces or grind, transport to an authorized recycling facility.
12		C.	Carpet and Pad: Separate carpet and pad scraps, containerize and transport to an authorized recycling facility.
13		D.	Ceiling System Components: Suspended ceiling system components shall be sorted by material type as follows:
14			 Broken, cut, or damaged tiles shall be containerized, transport to an authorized recycling facility. Damaged, or cut tracks, trim and other metal grid system components shall be sorted with other metals
15 16			
10		E.	of similar types, palletize, transport to an authorized recycling facility. Clean Fill: When allowed by Division 31 Specifications; concrete, masonry, stone, asphalt pavement, sand and
18		с.	other such materials may be used as clean fill on this project site. The GC shall verify with the Project Architect,
19			Structural Engineer, or Civil Engineer as necessary prior to using any materials as clean fill. Materials shall be
20			processed, placed, and compacted as specified. If not being re-used on site, transport to an authorized recycling
21			facility.
22		F.	Clean Wood Materials: Including but not limited framing cutoffs, wood sheathing or paneling materials,
23			structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils,
24			preservatives and other such contaminates.
25			1. Useable pieces shall be sorted by type and dimension, bundled and transported off site by the GC or
26			returned to the supplier.
27			2. Non-useable pieces shall be palletized or containerized, transport to an authorized recycling facility.
28			3. Clean, uncontaminated sawdust and wood shavings shall be bagged, transport to an authorized recycling
29 30		G.	facility.
30 31		б.	Concrete: Break-up into transportable pieces, remove all reinforcing and other metals, transport to an authorized recycling facility.
32		Н.	Glass Products: Shall be sorted by types, do not include light fixture lamps and bulbs. Products broken in
33			shipment shall be returned to the supplier. Broken or cracked items still in frames shall be taped to prevent
34			further breakage and injury to workers. Transport to an authorized recycling facility.
35		I.	Gypsum Board: Stack large clean pieces on wooden pallets or container, store in a dry location, transport to an
36			authorized recycling facility.
37		J.	Light Fixture Lamps and Bulbs: Fluorescent tubes shall be containerized, transport to an authorized recycling
38			facility.
39		К.	Masonry and CMU: Remove all metal reinforcing, anchors, and ties, clean undamaged pieces and neatly stack on
40			pallets, transport damaged pieces to an authorized recycling facility.
41		L.	Metals: Sort metals by type as follows, this does not include piping:
42			1. Architectural metals including but not limited to siding, soffit, and roofing panels shall be sorted by
43 44			 material, palletize or bundle as needed and transport to an authorized recycling facility. Structural steel, sort by size and type; palletize and transport to an authorized recycling facility.
44			 Structural steel, soft by size and type, parenze and transport to an authorized recycling racinty. Miscellaneous metals such as aluminum, brass, bronze, etc shall be sorted by type, containerized or
46			palletized as necessary, transport to an authorized recycling facility.
47		M.	Packaging and shipping materials
48			1. Cardboard boxes and containers: Breakdown all cardboard boxes and containers into flat sheets. Bundle
49			and store in a dry location until transported for recycling.
50			2. Pallets:
51			a. Whenever possible require deliveries using pallets to remove them from the project site.
52			b. Neatly stack pallets in preparation for reusing them or providing them to other companies for
53			salvage or re-use.
54			c. Break down pallets into component wood pieces that comply with the requirements for recycling
55 56			clean wood materials. Neatly stack or palletize pieces in preparation for transportation.
56 57			3. Crates: Break down crates into component wood pieces that comply with the requirements for recycling
57 58			 clean wood materials. Neatly stack or palletize pieces in preparation for transportation. Polystyrene Packaging: Separate and bag materials.
50			

1		N.	Piping and conduit: Reduce all piping and conduit to straight lengths, sort and store by size, material and type.
2			Remove supports, hangers, valves, boxes, sprinkler heads, and other such components, sort and store by size,
3			material and type. Transport to authorized recycling facilities according to material types.
4		О.	Roofing: Roofing materials shall be sorted and containerized by type, transport to authorized recycling facilities
5			according to material types.
6		Ρ.	Site-Clearing Waste: Sort all site waste by type.
7			1. Only stockpile soils types and quantities required for re-use on the project site. All remaining quantities
8			shall be transported off site to an authorized facility that receives such materials.
9 10			2. Brush, branches, and trees with no marketable re-use shall be transported to facilities for chipping into mulch.
11			3. Trees with a marketable re-use shall be salvaged and transported to facilities that specialize in processing
12			trees for future use as wood products.
13			
14	3.5.	GUID	DELINES FOR DISPOSAL OF WASTES
15	0.01	A.	The following guidelines shall be adjusted as needed by the methods and procedures identified in the Waste
16			Management Plan.
17		В.	Any waste that is contaminated, organic, or cannot be recycled, re-used, or salvaged shall be legally disposed of
18			in an authorized landfill or incinerator. Disposal methods shall follow all applicable regulatory requirements.
19		C.	No waste material of any kind, except those types designated as clean fill in section 3.4 above, shall be allowed
20			to be buried on the project site at any time.
21		D.	No burning of any kind of waste material shall be permitted on this project site at any time.
22		E.	Paint and Stain: Paints, stains, and their containers shall be disposed of as follows:
23			1. Whenever possible containers should be thoroughly cleaned immediately after emptying and sorted with
24			as appropriate (metal or plastic) for recycling
25			2. Empty containers, regardless of type or base material, may be disposed of with lids off with general
26			garbage.
27			3. Latex paint may be placed with general garbage if properly solidified as follows:
28			a. Small amounts (an inch or less in can): Remove lids and allow paint to dry out in the can and
29			harden. Protect cans from rain and freezing.
30			b. Large amounts (more than one inch): Mix paint with equal amounts of cat litter, stir and allow to
31			completely dry. Alternate method: mix with commercial paint hardener.
32			4. Oil-based or combustible paints and stains, regardless of liquid or solid, shall be transported to an
33			approved facility that takes such items such as Dane County Clean Sweep Sites.
34		F.	Treated Wood Materials: Treated wood materials including but not limited to wood that has been painted,
35			stained, or chemically treated shall not be recycled or incinerated.
36			
37			
38			
39			END OF SECTION
40			

1 2	SECTION 01 77 00					
2	CLOSEOUT PROCEDURES					
4	PART 1 – GENERAL					
5	1	l.1.	SUMMARY			
6	1	L.2.	RELATED SPECIFICATIONS			
7	1	L.3.				
8	1	L.4.	QUALITY ASSURANCE – CONSTUCTION	CLOSEOUT 2		
9		L.5.		DSEOUT		
10	PART	2 – PI	ODUCTS – THIS SECTION NOT USED			
11		-				
12		3.1.				
13		3.2.	-	IENTS		
14		3.3.		8E		
15		3.4.	-	5		
16	3	3.5.	CONTRACT CLOSEOUT PROCEDURE			
17	DADT	1 0				
18 19	PARI	<u>1-G</u>	NERAL			
20	1.1.	SUIN	MARY			
20	1.1.	A.		o clearly define and quantify the requirements associated with closing a City		
22		7	of Madison Public Works Contract f			
23		В.		elated paths. Each path needs to be properly closed independently in order		
24			to close the contract as a whole.			
25			1. Construction closeout is rela	ted to closing out all of the Work associated with the construction		
26			documents.	C C C C C C C C C C C C C C C C C C C		
27			a. It shall be the respon	sibility of all contractors to be fully aware of the required Work and closeout		
28			requirements involve	d in their individual trades.		
29			2. Contract closeout is related	o closing out all of the administrative aspects of the contract in general.		
30				sibility of all contractors to be fully aware of the administrative requirements		
31				act and to provide the supporting documentation required.		
32				be completed before Contract Closeout can begin.		
33		C.		al knowledge associated with the following areas:		
34			1. Construction Closeout Requi			
35			2. Construction Closeout Proce			
36			3. Contract Closeout Requirem			
37			4. Contract Closeout Procedure			
38 39			5. Final Payment and Certificat	e of Completion		
39 40	1.2.	DEI	TED SPECIFICATIONS			
40	1.2.	A.		es to other specifications including specifications relating to the execution of		
42		7	the Work associated with their Divis			
43		В.		yment Procedures		
44		C.	C	nagement Web Site		
45		D.		n Progress Reporting		
46		Ε.		y Control Procedures		
47		F.	Section 01 74 13 Progress Cl	eaning		
48		G.	Section 01 45 16 Construction	n Waste Management and Disposal		
49		Н.	Section 01 76 00 Protecting	nstalled Construction		
50		I.		and Correction List		
51		J	· · · ·	nd Maintenance Data		
52						
53		L.	Section 01 78 39 As-Built Dra	-		
54		M.		and Extra Materials		
55		N.		ion and Training		
56		0	Section 01 91 00 Commissio	0		
57 58		Ρ.	other requirements as noted in the	contract documents signed by the General Contractor		

1	1.3. DEFINITIONS							
1 2	1.3.	A.	Substantial Compliance: A letter provided to the City of Madison Building Inspection and signed by the Project					
2		А.	Architect indicating that all Work has been completed to a level that would allow Owner Occupancy and that all					
4			construction is in compliance with the construction documents. A copy of this letter is also provided to the					
5			State of Wisconsin Department of Health and Safety as necessary to clear plan review requirements. This let					
6			does not represent construction closeout.					
7		B.	<i>Certificate of Occupancy</i> : The Regulatory letter from the City of Madison Building Inspection Department					
8		Б.	indicating that all regulatory requirements and inspections have been completed and the building may now be					
9			occupied for its intended use. This letter does not represent construction closeout.					
10		C.	<i>Certificate of Substantial Completion</i> : A letter provided by the Department of Public Works, signed by the City					
11			Engineer indicating that Construction activities are substantially complete. This letter does represent					
12			construction closeout and the date of this letter begins the date of the Warranty Period.					
13		D.	Construction Closeout: The point in the contract where all contractual requirements associated the execution of					
14			the Work as described in the plans, specifications, and other documents have been successfully met and the					
15			items described in 1.3.A, .B, and .C above have been completed.					
16		E.	Final Progress Payment: The progress payment associated with achieving Construction closeout as described in					
17			1.3.D above. At this point the contractor may request all monies associated with the contract be paid with the					
18			exception of held retainage.					
19		F.	Contract Closeout: The point in the contract where all contractual requirements associated with the City of					
20			Madison, Board of Public Works contract has been successfully met.					
21		G.	Final Payment: The final contract payment submittal that may be approved by the City of Madison after all					
22			contractual requirements of the Public Works Contract have been met and any remaining monies (retainage)					
23			due to the contractor may be released for the Final Payment.					
24								
25	1.4.	QUAL	ITY ASSURANCE – CONSTRUCTION CLOSEOUT					
26		Α.	All contractors shall be responsible for properly executing the construction closeout requirements associated					
27			with their Work as described in the specifications governing their Work.					
28		В.	The GC shall be responsible for all of the following:					
29			1. Ensuring that all contractors have met the construction closeout requirements associated with their					
30			Work.					
31			2. Coordinate the collection of all construction closeout deliverables from all contractors, provide the					
32			deliverables to the Project Architect and City Project Manager for review as necessary, and ensure all					
33			contractors correct deficiencies of deliverables and resubmit as needed for final acceptance.					
34			3. Ensure all closeout requirements identified in the Construction Closeout Checklist below have been					
35			completed as intended by the construction documents.					
36 27	1 5		ITY ASSURANCE – CONTRACT CLOSEOUT					
37 38	1.5.	-						
30 39		A.	The City of Madison, Department of Civil Rights (DCR) monitors contract compliance for construction and procurement contracts to ensure that local, state and federal regulations are followed by contractors working on					
40			City of Madison Public Works (PW) projects. DCR will monitor all PW projects from contract award through the					
40			final payment at the close of the project. Contractors will be required to submit reporting paperwork					
42			throughout the PW project process.					
42			1. Contractors are encouraged to visit the web site identified below for additional information, checklists,					
44			forms, and other information provided by DCR as it relates to Contract Compliance.					
45			http://www.cityofmadison.com/Business/PW/contractCompliance.cfm					
46			 Questions regarding the process should be directed to parties and offices as identified on the various 					
47			forms, documents, and instructions or contact:					
48			City of Madison, Department of Civil Rights					
49			210 Martin Luther King Jr. Blvd., Room 523					
50			Madison, WI 53703					
51			(608) 266-4910					
52		В.	All Sub-Contractors have submitted the applicable required documents described in item 1.5.D below to the					
53			General Contractor (GC) for Contract Closeout.					
54		C.	The GC has submitted the required applicable documents described in item 1.5.D below for all contractors to the					
55			appropriate City of Madison Agency per instructions associated with each submittal.					
56		D.	The documents required for submittal to the City of Madison for Contract Closeout may include any/all of the					
57			items listed below depending on contract type. It is the sole responsibility of all contractors to know and submit					
58			the required and complete documentation in a timely fashion.					

1			1. Weekly Payroll Reports
2			2. Employee Utilization Reports
3			 Agent or Subcontractor Affidavit of Compliance with Prevailing Wage Rate Determination
4			 Prime Contractor Affidavit of Compliance with Prevailing Wage Rate Determination
5			5. Documentation required for Small Business Enterprise (SBE) goals
6			6. Other documents as maybe required or requested through the Finalization Review Process
7			
8	PART	2 – PR	ODUCTS – THIS SECTION NOT USED
9			
10	PART	3 - EXE	CUTION
11			
12	3.1.	CON	STRUCTION CLOSEOUT CHECKLIST
13		Α.	All contractors shall be responsible for reviewing the drawings and specifications within their Divisions of Work
14			to provide a complete and comprehensive list of all Construction Closeout Requirements to the GC.
15			1. The checklist shall include all items identified within the construction documents that require any of the
16			following (and examples) prior to moving into Contract Closeout Procedures:
17			a. Documents indicating a specified level of performance has been achieved, such as:
18			i. Test reports of all types
19			ii. Startup reports
20			b. Required documentation, such as:
21			i. As-builts and record drawings
22			ii. Operation and maintenance data
23			c. Physical items to be turned over to the owner, such as:
24			i. Attic stock
25			ii. Keys
26			d. Required maintenance completed, such as:
27			i. Ducts cleaned
28			ii. Filters replaced
29			e. Commissioning and LEED related items and submittals
30			f. Owner and Maintenance Training
31		В.	Each list shall indicate the title of the closeout requirement, the associated specification of the requirement, the
32			required result or deliverable, the responsible contractor(s), and a column to verify the item has been turned in
33			and completed.
34		C.	The GC shall be responsible for all of the following:
35			1. Consolidating all the closeout lists into one master Construction Closeout Checklist.
36			a. The checklist shall be in a tabular data format similar to the sample below
37			2. Upload the completed checklist to the Contract Closeout-Miscellaneous Documents Library on the
38			Project Management Web Site for review.
39 40		D.	3. Resubmit the checklist as needed after initial reviews have been completed.
40 41		υ.	The GC shall work with all contractors to amend the Construction Closeout Checklist throughout the execution of the project based on changes and medifications as personal.
41			the project based on changes and modifications as necessary.
42			

<u>Title</u>	Specification	Description	Responsibility	Completed
Quality Management	01 45 16	All QMO reports have been properly	All, GC	
Observation Reports		responded to, reviewed and closed by		
		the CPM.		
As-Built Drawings	01 78 39	As-Built drawings have been reviewed	All, GC	
		and accepted per the specification		
Testing and Balancing	23 09 23	Provide final TnB reports indicating	HVAC	
of HVAC		design performance has been achieved		

3.2. CONSTRUCTION CLOSEOUT REQUIREMENTS

45A.The timely submittal or completion of closeout requirements shall go hand in hand with the Progress Payment46Milestone Schedule that can be found in Specification 01 29 76 Progress Payments. No payments shall be made47until all requirements for that payment have been met.481.49The GC and all major Subcontractors, PA, and CPM, shall review all requirements for49Construction/Contract Closeout during two (2) special meetings.

	STAN	DF MADISON DARD SPECIFICATION IMBER 19, 2019
1 2 3		a. The first meeting shall be held at the 50% Contract Total Payment milestone. This meeting shall discuss the requirements associated with various construction/contract closeout documentation and events when they are due with respect to progress payments.
4 5 6		b. The second meeting shall be held at the 70% Contract Total Payment milestone. This meeting shall review the contractors progress regarding the closeout checklist, begin making plans for upcoming deadlines such as scheduling training, where to put attic stock, and when they are due
7 8 9		with respect to progress payments. 2. The GC, PA, and CPM, shall utilize the Construction Closeout checklist to ensure that all construction closeout requirements have been met.
10 11	3.3.	CONSTRUCTION CLOSEOUT PROCEDURE
12		A. Upon successful completion and final acceptance of all Construction Closeout Requirements the GC may submit
13		to the CPM and PA the request for Final Progress Payment (100% contract total, less retainage).
14		B. The PA will confirm with the design consultants, CPM, and other City of Madison staff that all requirements of
15		the Work have been completed and will do the following:
16		1. Approve the final progress payment application
17		2. Provide the required signed payment documents to the CPM
18		3. Provide the required Letter of Substantial Compliance to the following as required:
19		a. State Safety and Building Division
20		b. Local Building Inspection office
21		c. GC
22 23		 CPM C. The CPM shall draft the City Letter of Substantial Completion for signature by the City Engineer. This letter shall
25 24		state any of the following that may still be tied to the contract and/or warranty:
24 25		1. Indicate that the date of the letter shall also be the beginning of the Warranty period.
26		 Indicate that the date of the fetter shall also be the beginning of the warranty period. Indicate any allowed due outs, reasons for them, and anticipated dates of finalization.
27		a. QMO issues such as off season testing of equipment
28		b. Off season training of equipment
29		D. The GC and all subcontractors shall finalize all warranty letters associated with their Work using the date noted
30		on the City Letter of Substantial Completion, and provide the CPM with all warranties as described in
31		Specification 01 78 36 Warranties. Upon receipt and final approval of the Warranties the CPM may initiate final
32		processing of the Final Progress Payment (100% contract total, less retainage).
33 34	3.4.	CONTRACT CLOSEOUT REQUIREMENTS
35	5.4.	A. The GC and all sub-contractors shall follow all requirements associated with documenting contract compliance
36		and provide documentation as required or requested by DCR or PW staff. All contractors are encouraged to stay
37		current with submissions of the following documentation:
38		1. Weekly Payroll Reports no later than the Progress Payment equal to 50% of the contract total.
39		2. Employee Utilization Reports
40		3. Agent or Subcontractor Affidavit of Compliance with Prevailing Wage Rate Determination
41		4. Prime Contractor Affidavit of Compliance with Prevailing Wage Rate Determination
42		5. Documentation required for Small Business Enterprise (SBE) goals
43		6. Other documents as maybe required or requested through the Finalization Review Process
44		B. Near the Progress Payment equal to 80% of the contract total the GC shall request in writing a Finalization
45		Review. At that time DCR or PW staff shall prepare a report of all contract documentation submitted to date. A
46		list of missing items or outstanding issues will be emailed to the GC. No additional follow-up will be generated
47		by DCR or PW Staff.
48		
49	3.5.	CONTRACT CLOSEOUT PROCEDURE
50 E 1		A. The Contract Closeout Procedure will not begin until the Construction Closeout Procedure has been completed.
51 52		B. When the GC feels he/she has successfully met all of the Contract Closeout Requirements associated with Section 2.2 above the GC may submit to the request for Final Payment to the CPM
52 53		Section 3.3 above the GC may submit to the request for Final Payment to the CPM. C. The CPM shall sign and submit the Final Payment request for processing.
53 54		 C. The CPM shall sign and submit the Final Payment request for processing. D. DCR and PW staff shall do a complete review of all documentation associated with item 3.3.A above.
54 55		 E. The GC shall be notified directly by DCR or PW Staff of any documentation that may still be missing, have
56		incomplete information, or other outstanding issues. It shall be the responsibility of the GC to continue follow-
57		up with DCR and PW staff until all documentation has been successfully submitted and accepted.
57		

CITY OF MADISON

1 2 3	F.	When all required documentation associated with Contract Closeout has been successfully submitted and accepted by DCR and PW Staff the City of Madison shall process the Final Payment of any remaining monies including retainage
3 4 5		including retainage.
6 7		END OF SECTION

1			
			NS
PART			N NOT USED
PART	3 – EXE	CUTION – THIS SECTIO	N NOT USED
<u>PART</u>	<u> 1 – GEľ</u>	NERAL	
1.1.	SUMI	MARY	
	A.	signing and runs thro	has developed a multi-faceted Quality Management Program that begins with contract ough contract closeout to ensure the best quality materials, workmanship, and product a
		delivered for the cor	
			Management Web Site is a Construction Management tool that provides contractors, and staff a single on-line location for the daily operations and progression of the Work.
			Anagement Observation (QMO) is an ongoing observation of the construction process a
			The City of Madison does not use a "Punch List" or "Corrections List" as it is typically kno
			he construction industry. The QMO process acts as an "in progress punch list". Work
			not in compliance with the contract documents by the Owner, Owner Representatives,
			Iltants, etc. shall be resolved immediately at the Contractor's expense. Unresolved issue
			ct to withholding of progress payment(s) until completed.
			at expectations are tied to Construction Closeout and Contract Closeout procedures. Spectrations are tied to Construction Closeout and Contract Closeout procedures.
			proughout the project need to be met and the milestones are tied to the Progress Payme
	В.	Schedule.	be required to review the specifications identified in Section 1.2 below, and other relate
	р.		Fied therein to become familiar with the terminology and expectations of this City of
		Madison Public Worl	
1.2.	RELA	TED SPECIFICATIONS	
	Α.	Section 01 29 76	Progress Payment Procedures
	В.	Section 01 31 23	Project Management Web Site
	C.	Section 01 45 16	Field Quality Control Procedures
	D.	Section 01 77 00	Closeout Procedures
PART	2 – PRC	DDUCTS – THIS SECTIO	N NOT USED
	2 <u> </u>	CUTION - THIS SECTION	<u>ON NOT USED</u>
PART	J - LAL		

1				SECTION 01 78 39
2				AS-BUILT DRAWINGS
3				
4		-		
5	1.1			
6 7	1.2			FICAITONS
8	1.3 1.4			REQUIREMENTS
9	1.5			ANCE 2
10				2
11	2.1			
12				2
13	3.1			NT AS-BUILTS
14	3.2	2.	SITE SURVEY AS	-BUILT
15	3.3	3.	MASTER AS-BUI	ILT DOCUMENT SET
16	3.4	4.	AS-BUILT REVIE	W AND ACCEPTANCE
17	3.5	5.	CHANGES AFTE	R ACCEPTANCE
18				
19	PART 1	– GE	NERAL	
20		_		
21			MARY	
22		Α.	•	ition is intended to provide clear guidelines and identify the responsibilities of all contractors as they
23 24			•	y of Madison contract procedures regarding the accurate recording of the Work associated with the this contract. This shall include but not be limited to work that will be hidden, concealed, or buried.
24 25		В.		tor shall be responsible for maintaining an accurate record of all installations, locations, and
26		Б.		to shar be responsible for maintaining an accurate record of an instantions, locations, and the contract documents during the execution of this contract as it may relate to their specific division
27			or trade.	ie contract documents during the execution of this contract as it may relate to their specific division
28		C.		Contractor (GC) shall be responsible for ensuring all contractors provide as-built record information
29				r As-Built Document Set as described in this specification.
30				· · · · · · · · · · · · · · · · · · ·
31	1.2.	RELA	TED SPECIFICAI	ITONS
32		Α.	00 31 21	Survey Information
33		В.	01 26 13	Request for Information
34		C.	01 31 23	Construction Bulletin
35		D.	01 32 33	Photographic Documentation
36		Ε.	01 26 63	Change Orders
37		F.	01 29 76	Progress Payment Procedures
38		G.	01 31 23	Project Management Web Site
39 40		Н. I.	01 33 23 01 77 00	Submittals Closeout Procedures
40 41		ı. J	01 77 00	Commissioning
42		J K.		ns and Specifications that may address more specifically the requirements for field recording the
43		κ.		f all items associated with the execution of this contract by Division or Trade.
44				
45	1.3.	RELA		ITS
46		A.		documents shall include but not be limited to the following:
47				ng documents including drawings, specifications, and addenda.
48			2. Requi	ired regulatory documents of conditional approval.
49			3. Field	orders, verbal or written by inspectors having regulatory jurisdiction.
50			4. Shop	drawings and installation drawings.
51				
52			ORMANCE REQ	•
53		Α.		be responsible for maintaining the "Master As-Built Document Set" in the job trailer at all times
54			-	recution of this contract. This document set shall include all of the following:
55				er As-Built Plan Set
56				er As-Built Specification Set
57			3. Other	r Document Sets

1		В.	The GC shall designate one person of the GC staff to be responsible for maintaining the Master As-Built
2			Document Set at the job trailer. This shall include, posting updates, revisions, deletions and the monitoring of all
3			contractors posting as-built information as described in this specification.
4		C.	All contractors shall use this specification as a general guideline regarding the requirements for documenting
5		-	their completed Work. Contractors shall explicitly follow additional specification requirements within their own
6			Division of Trade as it may apply to this specification.
7			Division of trade as it may apply to this specification.
8	1.5.		ITY ASSURANCE
	1.5.		
9		Α.	The GC shall be responsible for all of the following:
10			a. Spot checking all sub-contractors field documents to insure daily information is being recorded as
11			work progresses.
12			b. Discuss as-built recording to the plan set at weekly job meetings with all sub-contractors on site.
13			c. Schedule time with sub-contractors in the job trailer for recording as-built information to the plan
14			set.
15			d. Insure that all sub-contractors are providing clear and accurate information to the plan set in a
16			neat and organized manner.
17			e. Insure sub-contractors who have completed work have finalized recording all as-built information
18			to the plan set before releasing them from the project site.
19		В.	The Project Architect, the City Project Manager, Commissioning Agent and other design team staff will perform
20			random checks of the Master As-Built Document Set during the execution of this contract to ensure as-built
21			information is being recorded in a timely fashion as the Work progresses. An updated and current Master As-
22			Built Document Set is a stipulation for approval of the progress payment.
23			
24	PART	2 – PRC	DDUCTS
25	<u></u>		
26	2.1.	OFFIC	E SUPPLIES
27	2.1.	A.	The GC shall provide a sufficient supply of office products in the job trailer at all times for all contractors to use in
28		А.	recording as-built information into the plan set. This shall include but not be limited to the following:
29			
30			a. Red ink pens, medium point. Pens that bleed through paper, markers, and felt tips will not be
			accepted.
31			b. The use of highlighters is acceptable. Assign colors to various trades for consistency in recording
32			information.
33			c. Straight edges of various lengths for drawing dimension, extension and other lines.
34			d. Civil and Architectural scales
35			e. Clear transparent, non-yellowing, single sided tape.
36			f. Correction tape or correction fluid for correcting small errors.
37			
38	PART	3 - EXE	CUTION
39			
40	3.1.	FIELD	DOCUMENT AS-BUILTS
41		Α.	The GC and all Sub-contractors shall be responsible for keeping their own field set of as-built documents
42			including plans, specifications and published changes.
43		В.	Field sets shall be kept dry and in good condition at all times.
44		C.	No Work shall be buried, covered, or hidden, by any additional Work, regardless of Contractor or Trade, until
45			locations of all materials and equipment has been properly documented as described below.
46		D.	All contractors shall be required to record the following as-built information:
47		υ.	a. Notes on the daily installation of materials and equipment.
48			b. Sketches, corrections, and markups indicating final location, positioning, and arrangement of
49			materials and equipment such as pipes, conduits, valves, cleanouts, pull boxes and other such
50			items. Note all final locations on plan sheets, indicate dimension off identifiable building features.
51			Riser diagrams need only be corrected for significant changes in locations, routing or
52			configuration.
53			i. The use of photographs in lieu of hand drawn sketches is acceptable.
54			ii. Photos shall be taken according to Specification 01 32 33 Photographic Documentation
55			iii. Print photo and markup with dimensions or notes as necessary.
56			c. Identify by the use of existing plan symbology and notes the size, type, quantity, and use as
57			applicable of materials such as pipes, valves, conduits, etc.

1 2			d.	Note whether horizontal runs are below slab or above ceiling, include dimensions above or below finished floor elevation.
3		E.	All contracto	rs shall be responsible for transferring the information from their field set of documents to the
4				uilt Plan Set kept in the GC job trailer. See Section 3.3.D. below for the proper procedure.
5		F.		rs shall update the GC Master Plan Set as often as necessary, but not less than once per work week.
6				
7	3.2.		SURVEY AS-BU	
8 9		A.	following:	veyor Sub-Contractor shall provide digital as-built information including but not be limited to the
10			a.	For underground buried utility laterals and services of all types locate all of the following that may
11				apply:
12				i. Connection points at all mains
13				ii. Storm discharge points to open air
14				iii. All corners and bends regardless of angle, large radius sweeps shall have multiple point
15 16				locations sufficient to define the sweep.
16 17				iv. All vertical drops v. All wells
18				vi. Private buried utilities such as buried electrical cables, irrigation systems, etc.
19				 v. Other information that may need to be located in the future by the owner prior to digging
20			b.	Record all surface features including but not limited to the following:
21			5.	i. Building corners, pavement edges, and other permanent structural features.
22				ii. All surface covers for inlets, catch basins, cleanouts, access structures, curb stops and
23				other such devices.
24				iii. Other permanent surface features such as hydrants, lamp posts, and other permanent site
25				amenities.
26			с.	The following data shall be recorded while locating items in sub-sections 3.2.a and 3.2.b above:
27				i. Flow lines at both ends of pipes
28				ii. Pipe sizes and material types
29				iii. Rim elevations for all covers
30				iv. Sump elevations and invert elevations of all structures
31				v. Spot elevations for all pads, driveways, walks, stoops, and floors
32		В.		r shall provide the final digital as-built on a media and in a format specified in Specification 00 31 21
33		6	-	nation to the GC for turn in to the Project Architect and the Civil Engineer.
34 25		C.	as follows:	r shall provide two printed as-built site plans to the GC for inclusion in the Master As-Built Plan Set
35 36				sheet to show all features (but not contour information) with text neatly organized for each item
30 37			ident	
38				sheet showing contours, contour labels, and features from item 1 above, but with no additional text.
39			2. One s	
40	3.3.	MAS	TER AS-BUILT D	DOCUMENT SET
41		A.		be responsible for maintaining the Master As-Built Document Set in the job trailer at all times.
42				Aaster As-Built Plan Set (Plan Set) shall begin with one complete bid set of drawings and any
43				ional sheets that were supplied by published addenda during the bidding process. The cover sheet
44			shall	be titled as the "Master As-Built Plan Set" in large bold red letters approximately 2" in height and
45			shall	not be used for any other purpose.
46			a.	The Plan Set shall be kept dry, legible, and in good condition at all times.
47			b.	The Plan Set shall be kept up to date with new revisions within two (2) working days of
48				supplemental drawings being issued. Revisions shall be posted as follows:
49				i. Insert new, revised sheets into the plan set. Void old sheets but do not remove them from
50				the plan set. Indicate date received and what document (RFI, CB, CO, etc) caused the
51 52				change.
52				ii. Insert new, revised individual details into the plan set. Void old details, tape new details
53				over the old details with a "tape hinge" to allow them to be viewed. Indicate date
54 55				received and what document (RFI, CB, CO, etc) caused the change. iii. Add new details in appropriate white space on relevant sheets. If no space is available use
55 56				iii. Add new details in appropriate white space on relevant sheets. If no space is available use the back side of the previous sheet or insert a new sheet. Indicate date received and what
50 57				document (RFI, CB, CO, etc) caused the change.
57				

1			c. The Plan Set shall be available at anytime for easy reference during progress meetings and for
2			emergency location information of new work already completed.
3			2. The Master As-Built Specification Set (Spec Set) shall begin with one complete bid set of specifications
4			and any additional specifications that were supplied by published addenda during the bidding process.
5			The Spec Set shall be provided in three "D" ring type binders of sufficient thickness to accommodate the
6			specification set. Multiple binders are allowed as necessary. Label the front cover and binding edge with
7			"Master As-Built Specifications" in bold red letters. Provide other information as necessary to distinguish
8			the contents of multi-volume sets.
9			a. The Spec Set shall be kept dry, legible, and in good condition at all times.
10			b. The Spec Set shall be kept up to date with new revisions within two (2) working days of
11			supplemental drawings being issued.
12			c. The Spec Set shall be available at anytime for easy reference during progress meetings.
13			3. Other Document Sets may be kept at the GCs option in three "D" ring type binders of sufficient thickness
14			to accommodate the documentation. Other documentation sets may include but not be limited to RFIs,
15			CBs, COs, etc.
16		C.	The Land Surveyor Sub-Contractor shall be required to use digital surveying for all exterior site surveying, and
17			provide deliverable digital as-builts as specified in Specification 00 31 21 Survey Information. As soon as practical
18			the surveyor shall provide the GC with a preliminary copy of installed buried utilities for inclusion with the plan
19			set in the job trailer. The surveyor shall provide final digital as builts as per section 3.2 above.
20		D.	All contractors shall be responsible for updating the Plan Set from their field sets at least once per work week.
21			Updates shall include but not be limited to the following procedures:
22			a. All updates shall be done only in red ink. Place a "cloud" around small areas of correction to call
23			attention to the change.
24			b. Whenever possible place general work notes, field sketches, supplemental details, photos, and
25			other such information on the reverse side of the preceding sheet. Installation notes including
26			dates shall be kept neatly organized in chronological order as necessary.
27			c. Accurately locate items on the plan set as follows:
28			i. For items that are located as dimensioned provide a check mark or circle indicating the
29			dimension was verified.
30			ii. For items that are within 5 feet of the location indicated on the plans leave as shown and:
31			Provide correct dimensions to existing dimension strings or,
32			Accurately locate with new dimension strings
33			iii. For items that are more than 5 feet from the location indicated on the plans
34			 Accurately draw the items in the new location as installed and,
35			Accurately locate with new dimension strings and,
36			 Note that the existing location is void.
37			d. Include dimensioned locations for items that will be buried, concealed, or hidden in the ground,
38			under floors, in walls or above ceilings.
39			i. Dimensions shall be pulled from identifiable building features, not from centers of columns
40			or other buried features.
41			ii. When necessary pull more dimensions as needed from opposing directions to properly
42			locate single items.
43			
44	3.4.	AS-BU	IILT REVIEW AND ACCEPTANCE
45		Α.	The GC shall provide the Master As-Built Plan Set to the Project Architect (PA), the City Project Manager (CPM),
46			the Commissioning Agent (CxA) and other design team staff for content review prior to the Progress Payment
47			Milestone indicated in Specification 01 29 76 Progress Payment Procedures. The submitted plan set shall include
48			the digital survey information produced under Section 3.2 above.
49			1. If the plan set is not approved:
50			a. The PA and CPM shall only be required to generalize deficiencies by trade there shall be no
51			requirement or expectation to generate a "punch list" of required corrections.
52			b. The GC and Sub-contractors as necessary shall be responsible for inspecting the installation and
53			correcting the drawings as needed.
54			c. The GC shall re-submit the plan set for review.
55			2. If the plan set is approved the PA shall take possession of the plan set to be used in providing the owner
56			with digital CAD record drawings. Upon completion of transferring the information to CAD the PA shall
57			provide the Owner with CAD record drawings, record PDFs, and the Master As-Built Plan Set.
58			-

CHANGES AFTER ACCEPTANCE 1 3.5. 2 Α. No Contractor shall be responsible for making changes to the As-Built record documents after acceptance by the PA and CPM except when necessitated by changes resulting from any Work made by the Contractor as part of 3 4 his/her guarantee. 5 6 7 END OF SECTION 8 9

1			SECTION 02 41 16
2			STRUCTURAL DEMOLITION
3 4	DADT	1 0	ENERAL
4 5		1-0 1.1.	SCOPE
6		1.2.	RELATED REQUIREMENTS
7		1.3.	REFERENCE STANDARDS
8		1.4.	SUBMITTALS
9		1.5.	PRE-INSTALLATION MEETINGS.
10		1.6.	SEQUENCING
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15		3.1.	STRUCTURAL DEMOLITION
16		3.2.	GENERAL PROCEDURES AND PROJECT CONDITIONS
17		3.3.	EXISTING UTILITIES
18		3.4.	SELECTIVE DEMOLITION FOR ALTERATIONS
19		3.5.	SELECTIVE DEMOLITION FOR ALTERATIONS
20			
21	PART	1 – G	SENERAL
22			
23	1.1.	sco	DPE
24		Α.	Demolition of the existing parking ramp in its entirety, all foundation walls, footings, and all existing utilities.
25		Β.	The demolition will include removing all site improvements to the back of the street curb along E Doty St, S
26			Pinckney St, and E Wilson St.
27		C.	Pollution Control during building demolition, including noise control.
28		D.	Removal and legal disposal of all demolition materials and all tipping fees paid by the demolition contractor.
29		Ε.	
30			
31	1.2.		LATED REQUIREMENTS
32		Α.	Section 01 26 57 – Change Order Requests
33		В.	Section 01 31 19 – Project Meetings
34		С.	Section 01 31 23 – Project Management Web Site
35		Ε.	Section 01 74 19 - Construction Waste Management and Disposal: Limitations on disposal of removed materials;
36		_	requirements for recycling
37		F.	Section 01 76 00 – Protecting Installed Construction
38			
39	1.3.		FERENCE STANDARDS
40		A.	29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.
41		В.	NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2009.
42 43	1.4.	cu	BMITTALS
45 44	1.4.	ЗОІ А.	Schedule: Submit for approval the demolition schedule.
44 45		А. В.	Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface
45 46		Б.	construction.
40			
48	1.5.	PRI	E-INSTALLATION MEETINGS
49	1.01	A.	The contractor must schedule a pre-installation meeting a minimum two weeks prior to starting any structural
50			demolition.
51			
52	1.6.	SEC	QUENCING
53	-	Α.	The contractor will need to conduct pre-demolition surveys and record pre-demolition conditions of the
54			buildings adjacent to the site.
55		в.	The buildings adjacent to the site will be occupied during the duration of the demolition.
56		C.	The contractor will be responsible for the engineered design all required earth retention systems (ERS) required
57			to protect adjacent streets, curbs, and adjacent buildings.
58		D.	The ERS design must be performed by a Wisconsin Professional Engineer, Licensed in Wisconsin.

1	E. The earth retention contractor will be responsible for the design and installation of any ERS required to prevent	
2	any settling of the footings of all adjacent buildings.	
3	F. No responsibility for buildings and structures to be demolished will be assumed by the City.	
4	G. No responsibility for damage, because of the demolition of the Government East Ramp, to adjacent buildings and	1
5	structures will be assumed by the City.	
6		
7	1.7. QUALITY ASSURANCE	
8	A. Codes and Regulations: Comply with all governing codes and regulations. Experienced workers must perform	
9	the demolition who past proven ability to perform comparable demolition.	
10		
11	PART 2 - PRODUCTS	
12		
13	2.1. MATERIALS	
14	A. REPAIR MATERIALS	
15	 This will apply to all adjacent existing site improvements that are scheduled to remain. 	
16	 This will apply to all adjacent existing site improvements that are scheduled to remain. Use repair materials identical to existing materials. 	
10	 a. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that 	
18 10	visually match existing adjacent surfaces to the fullest extent possible.	
19	b. Use materials whose installed performance equal or surpasses that of existing materials.	
20		
21	PART 3 - EXECUTION	
22		
23	3.1. STRUCTURAL DEMOLITION	
24	A. This contract is for the Government East Ramp Demolition located at 110 E Wilson St. The work in this contract shall be	
25	as described in the plans, specifications, and shall include, but not be limited to, all of the following:	
26	Removal and proper disposal of all hazardous materials and devices according to regulatory codes, and the submitta	3I
27	of disposal manifests to the City Construction Manager (CCM).	
28	• The Contractor will be required to hire a sub-contractor with State of Wisconsin Certifications for Asbestos	
29	and Lead as described in Section 108.2 below.	
30	o The General Contractor shall provide scanned copies (in PDF format) of all certifications for his/her sub-	
31	contractor to the City Project Manager prior to beginning any work on this contract.	
32	 Demolition of the structure in its entirety, including cut, removal, and backfill of all existing underground foundations 	5,
33	utilities, service laterals to property lines, underground utilities, and sidewalks and all items in the City right-of-way t	
34	the back of curb on E Doty St, S Pinckney St, and E Wilson St.	
35	• All concrete is to be separated from any steel, be crushed on site to 1.25", and remain on site for use as backfill.	
36	• Temporary fencing of the entire Block 88 site including Lot 1 and Lot 2.	
37	 Maintain excavated slopes to OSHA standards, under the direction of a soils engineer. 	
38	 Sanitary and Storm Plug Permits are attached to this contract as Exhibit C and Exhibit D. The Contractor will need t 	~
39	obtain the Plug Permits and pay the fees and deposits (Exhibit C STM \$2,000.00 and Exhibit D SAN \$10,250.00) show	
40	on the exhibits with City Building Inspection.	-1
41	• Site dewatering, using the existing southwest 12" storm pipe, properly filtered and protected to prevent any discolore	a
42	discharge from reaching the City storm sewer.	
43		
44	The scope of work includes the furnishing of all labor, materials, equipment, tools, and other services necessary to complete	
45	the work in accordance with the intent of this contract. The Contractor shall use properly functioning equipment	
46	capable of performing the tasks required. The Contractor shall furnish workers who perform quality work and who are	
47	experienced and knowledgeable in the work proposed.	
48	In addition the Contractor shall include all costs of permits (except as noted in Section 108,2 below), disposal, equipment	
49	rental, and any other costs whatsoever which may be required for execution of this contract.	
50	The contractor shall leave the site clean and safe at the completion of the contract.	
51		
52	3.2. GENERAL PROCEDURES AND PROJECT CONDITIONS	
53	A. STRUCTURAL DEMOLITION	
54	1. Demolition Operations: Do not damage improvements indicated to remain. Items of salvage value will be	
55	removed from the building per Exhibit E - City Reuse & Recycling Plan. Storage or sale of items at the	
56	project site is prohibited.	
57	2. Remove other items indicated in Exhibit E - City Reuse & Recycling Plan from the premises per the	
58	Reuse & Recycling Plan.	
	, .	

1		3. All other materials from the demolition of the existing structure are to be properly disposed of offsite
2		by the contractor including removal of abandoned utilities and wiring systems.
3		4. Comply with applicable codes and regulations for demolition operations and safety of adjacent
4		structures and the public.
5		5. Obtain required permits.
6		6. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed;
7		do not allow worker or public access within range of potential collapse of unstable structures.
8		7. Provide, erect, and maintain temporary barriers and security devices.
9		8. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
10		9. Conduct operations to minimize effects on and interference with adjacent structures and
11		occupants.
12		10. Do not close or obstruct roadways or sidewalks without permit.
13		11. Conduct operations to minimize obstruction of public and private entrances and exits; do not
14		obstruct required exits at any time; protect persons using entrances and exits from removal operations.
15		12. Obtain written permission from owners of adjacent properties when demolition equipment will
16		traverse, infringe upon or limit access to their property.
17		13. Protect existing structures and other elements that are not to be removed.
18		14. Cease operations if public safety or remaining structures are endangered. Perform temporary
19 20		corrective measures until operations can be continued properly.
20		15. Stop work immediately if adjacent structures appear to be in danger.
21		16. Provide adequate protection against accidental trespassing. Secure project after working hours.
22 23		 Restore finishes of any areas damaged during demolition that were noted to remain. If hazardous materials are discovered during removal operations, stop work and notify the City
23 24		Construction Manager; hazardous materials include regulated asbestos containing materials, lead, PCB's,
25		and mercury.
26		19. Perform demolition in a manner that maximizes salvage and recycling of materials.
27		20. Comply with requirements of Section 01 74 19 - Waste Management.
28		21. Dismantle existing construction and separate materials.
29		22. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or
30		point of reuse.
31		
32	3.3.	EXISTING UTILITIES
33		A. Protect existing utilities to remain from damage.
34		B. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written
35		notification to City.
36		C. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior
37		written notification to City.
38		D. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type;
39		protect from damage due to subsequent construction, using substantial barricades if necessary.
40		E. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or
41		design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written
42		report to the City Construction Manager.
43	3.4.	SELECTIVE DEMOLITION FOR ALTERATIONS
44		A. Drawings showing existing construction and utilities are based on casual field observation and existing record
45		documents only.
46		1. Verify that construction and utility arrangements are as shown.
47		2. Report discrepancies to City Construction Manager before disturbing existing installation.
48		3. Engage a professional engineer to survey condition of building to determine whether removing
49 50		any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during colocities demolition operations.
50 51		adjacent structures during selective demolition operations.
51		Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
53		5. Perform surveys as the Work progresses to detect hazards resulting from selective
54		demolition activities.
55		B. Remove existing work as indicated and as required to accomplish new work.
56		1. Remove items indicated on drawings.
57		C. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and

1			Telecommunications): Remove existing systems and equipment as indicated.
2			3. Verify that services to be abandoned serve only abandoned facilities beforeremoval.
3			4. Remove abandoned pipe, ducts, conduits, and equipment, including those below grade.
4		D.	Protect existing work to remain.
5			1. Prevent movement of structure; provide shoring and bracing if necessary of neighboring properties.
6			2. Perform cutting to accomplish removals neatly.
7			3. Repair adjacent construction and finishes damaged during removal work.
8			4. Properly repair any neighboring property elements damaged during demolition.
9			
10	3.5.	SEL	ECTIVE DEMOLITION FOR ALTERATIONS
11		Α.	Remove debris, junk, and trash from site.
12		В.	Remove from site all materials not to be reused on site; comply with requirements of Section 01 74 19 –
13			Waste Management.
14		C.	Leave site in clean condition, ready for subsequent work.
15		D.	Clean up spillage and wind-blown debris from public and private lands.
16			
17			
18			END OF SECTION
19			

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Project Manual CONSTRUCTION SPECIFICATIONS

GOVERNMENT EAST RAMP DEMOLITION

CITY OF MADISON, WIS

Bid Documents SEPTEMBER 19, 2019

City of Madison Contract No. 8430

OWNER



ARCHITECT

Iothan van hook destefano ARCHITECTURE LLC

STRUCTURAL ENGINEER

wsp