EXHIBIT B

SPECIFICATIONS

TENNEY PARK PAVILION ACOUSTICAL PLASTER CEILING CONTRACT # 8879

TENNEY PARK PAVILION 402 N. THORNTON AVE. MADISON WISCONSIN

JUNE 5, 2020



1

CONTACTS

CITY PROJECT MANAGER: Jim Whitney Engineering Division City-County Building, Room 118 210 Martin Luther King Jr. Blvd. Madison, WI 53703 (608) 266-4563

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13	1.1.	SUN	IMARY					
14		A.	Each project has varying requirements for permits, inspections, and fees based on the scope, size, and location o					
15			the project.					
16		В.	The City of Madison (Owner) is subject to all permits, inspections and associated fees for construction,					
17			demolition, utility connection, storm water management, and other similar requirements that may be required					
18			to complete the scope of work associated with these contract documents.					
19		C.	The General Contractor (GC) shall be responsible for obtaining all permits, inspections and paying for all					
20			associated fees unless specifically identified within this specification.					
21								
22	1.2.	REFE	RENCES					
23		A.	The following references are not intended to be all inclusive. It shall be the GC's responsibility to determine all					
24			requirements based on the scope of work in the contract documents.					
25		В.	City of Madison Ordinances: Review all ordinances that may require a permit or fee that may be connected with					
26			a required permit. Contact the following City Agencies to determine the exact requirements during bidding.					
27			1. Building Inspection, phone (608) 266-4551					
28								
29	1.3.		ERAL CONTRACTORS REQUIREMENTS					
30		A.	The GC shall be responsible for all of the following:					
31			1. Execute application for all required permits as may be required by the scope of work described within the					
32			contract documents.					
33			2. Paying all fees associated with the application of any required permits.					
34			3. Scheduling all required inspections that may be conditions of any required permits.					
35		В.	The GC shall provide high quality scanned images of all required permits and inspections to the City Project					
36			Manager (CPM).					
37			ODUCTO THE SECTION NOT HOSE					
38	PARI	2 – PK	ODUCTS – THIS SECTION NOT USED					
39	DADT	3 EV	COUTION. THIS SECTION NOT LISED					
40	PARI	3 – EX	ECUTION – THIS SECTION NOT USED					
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		SECTION 01 25 13	
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PAR	RT 1 – G	GENERAL CONTRACTOR CON	
1.1.	SUI	MMARY	
	Α.	The City of Madison uses a specific list of preferred products for various specification items to establish	
		standards of quality, utility, and appearance required.	
	В.	The City of Madison will not allow substitutions for specified Products except as follows:	
		1. The Product is no longer produced or the product manufacturer is no longer in business.	
		2. The manufacturer has significantly changed performance data, product dimensions, or other such desig criteria for the specified Product(s).	ŗn
		3. Products specified by naming one or more Products or manufacturer's and "or approved equal" or	
		"approved equivalent."	
	C.	The City of Madison will not allow substitutions for specified Products as follows:	
		1. For Products specified by naming only one Product and manufacturer, no substitute product will be	
		considered.	
		For Products specified by naming several Products or manufacturers select any one of the products or manufacturers named, which complies with the specifications. No substitute product will be considered	d.
	D.	Request for substitutions from any party other than the General Contractor (GC) will not be accepted.	
1.2.	REL	LATED SPECIFICATIONS	
	A.	Section 01 33 23 Submittals	
DΔR	T 2 _ D	PRODUCTS	
FAIN	<u> </u>	-NODOCIS	
2.1.	SUI	BSTITUTION REQUEST FORM	
	A.	During bidding all contractors (General and Sub-contractors) and suppliers of materials or products shall provid	le
		hard copy of the Substitution Request form and all required attachments directly to the City Project Manager.	
	В.	After bidding only the GC shall submit a request and shall use the form provided by City Project Manager.	
PAR	RT 3 - EX	<u>XECUTION</u>	
3.1.	RF/	QUESTING A SUBSTITUTION DURING BIDDING	
J.1.	A.	In the event that a substitution is requested during the bidding phase the Contractor or Supplier shall meet the	٠
	۸.	substitution request deadline listed in the bidding documents. No substitution request will be considered during	
		the bidding period after the stated substitution request deadline. In general this procedure shall be as follows:	
		Submit the Substitution Request Form including all required supporting documentation to the City	
		Project Manager by the substitution request deadline specified in Section A of the Contract Documents.	
		Submit a Substitution Request Form for each product, supported with complete data, drawings and	
		samples as appropriate, including:	
		 i. Comparison of qualities of the proposed substitutions with that specified. 	
		ii. Changes required in other elements of the Work because of the substitution.	
		iii. Effect on the construction schedule.	
		iv. Cost data comparing the proposed substitution with the Product specified.	
		v. Any required license fees or royalties.	
		vi. Availability of maintenance service and source of replacement materials.	

1			3. The Owner and Engineer will review the Substitution Request Form and if approved the City of Madison
2			will publish a bidding addendum authorizing the replacement. The Owner and Engineer may reject any
3			substitution request without providing specific reasons.
4		В.	Substitutions submitted and approved during the bidding phase shall be announced by the City of Madison by
5			addenda prior to the bid due date.
6			
7	3.2.	REQU	JESTING A SUBSTITUTION AFTER AWARD OF CONTRACT
8 9		A.	A substitution request will only be considered after award of contract if it meets the qualifying provisions as described in 1.1.B.1 above.
10		B.	The GC shall submit a substitution request using the form provided by City Project Manager.
11			1. Consulting Staff, Owner and Owners Representatives will review the request and provide the appropriate
12			approvals and feed back to the GC.
13			
14	3.3.	UNA	UTHORIZED SUBSTITUTIONS
15		A.	Any Contractor who substitutes products without proper authorization by the Owner and Engineer will be
16			required to immediately remove and replace the product and all costs required to conform to the Contract
17			Documents shall be borne by the General Prime Contractor.
18			,
19			
20			
21			END OF SECTION
22			
23			

Substitution Request Form 1 2 3 Today's Date: **Project Title:** 4 **Project Number:** 5 **Contract Number:** 6 7 8 By completing and submitting this form for review, the General Contractor affirms that all of the following 9 statements are correct: 1. The General Contractor affirms that this request is in compliance with the requirements described in 10 Specification 01 25 13 Product Substitution Procedures. 11 2. The function, appearance, and quality of the proposed substitution are equal or superior to the specified 12 13 3. The proposed substitution does not affect dimensions shown on the drawings. 14 4. The proposed substitution will have no adverse affects on other trades, the construction schedule, or any 15 specified warranty requirements. 16 17 5. Maintenance and service parts will be locally available for the proposed substitution. (GC shall provide supporting documentation, attached with this form.) 18 6. The General Contractor shall be responsible for any and all costs associated with this substitution request 19 if approved. This includes but is not limited to fees for building design, engineering design fees, detailing 20 21 fees, plan review fees, construction costs and inspection fees. 22 **GC Substitution Request** 23 24 **General Title:** 25 26 **Related Specification:** Reason for Substitution: 27 28 29 30 31 32 33 Proposed Substitution: (Please include Name, Model, etc.) 34 Please attach any reference documents for the proposed substitution to this form. 35 36 37 38 **Submitted By:** 39 Company: 40 Phone: 41 Email: 42 43

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

1 2 3		G.	reque	requests for equitable adjustment shall be submitted to the CPM per the specifications below. Such ts shall set forth with specificity the amount of and reason(s) for the proposed adjustment and shall be panied by supporting information and documents.
4		Н.	No ad	ustment of any kind shall be made to this Contract, if asserted by the GC for the first time, after the date payment.
6 7		l.	This s	ecification shall be used by the GC when preparing documentation for any COR to ensure each has been ly and completely filled out as required by the City of Madison.
8 9	1.2.	RFI Δ	TED SPE	CIFICATION SECTIONS
10		Α.		n O1 26 63 Change Order (CO)
11		В.		of this specification will reference articles within "The City of Madison Standard Specifications for Public
12				Construction".
13			1.	Use the following link to access the Standard Specifications web page:
14				http://www.cityofmadison.com/business/pw/specs.cfm
15				a. Click on the "Part" chapter identified in the specification text. For example if the specification
16				says "Refer to City of Madison Standard Specification <u>2</u> 10.2" click the link for Part II, the Part II
17				PDF will open.
18				 b. Scroll through the index of Part II for specification 210.2 and click the text link which will take you
19				to the referenced text.
20				to the referenced text.
21	1.3.	DEFIN	IITIONS	AND STANDARDS
22	2.0.	A.		: The amount of time and cost associated with the performance of human effort for a defined scope of
23		,		Labor is further defined as follows:
24			1.	Labor rate is the total hourly rate which includes the base rate of pay, fringe benefits plus each
25				company's cost of required insurance, also referred to as a reimbursable labor rate.
26			2.	Unit labor is the labor hours anticipated to install the corresponding unit of material.
27			3.	Labor cost is the labor hours multiplied by the hourly labor rates.
28		В.		RIAL: Actual material cost is the amount paid, or to be paid, by the GC for materials, supplies and
29		ъ.		nent entering permanently into the Work, including cost of transportation and applicable taxes. The cost
30				ot exceed the usual and customary cost for such items available in the geographical area of the project.
31		C.		TOOLS AND MAJOR EQUIPMENT: Large tools and major equipment are those with an initial cost greater
32		C.		1,500, whether from the GC or other sources.
33			1.	Tool and equipment use and time allowed is only for extra work associated with change orders.
34			1.	a. Rental Rate is the machine cost associated with operating a piece of equipment for a defined
35				length of time (hour, day, week, or month) and shall not exceed the usual and customary amount
36				for such items available in the geographical area of the project.
37				b. Rental cost is the rental rate multiplied by the anticipated duration the equipment shall be
38				required.
39			2.	The GC shall provide a breakdown of all rental rates to indicate what items and costs are associated with
40			۷.	the rate. Examples of items to include in the breakdown would be fuel consumption, lubrication,
41				maintenance and other similar expenses but not including profit and overhead.
12			3.	When large tools and equipment needed for Change Order work are not already at the job site, the
13			Э.	actual cost to get the item there is also reimbursable.
14		D.	ROND	COST: The cost shall be calculated at 1% of the total proposed change order.
45		E.		DNTRACTOR COSTS: Sub-contractor costs are for those labor, material, and equipment costs required by
+5 46		L.		stracted specialties to complete the Change Order work including allowable markups as outlined within
47				ecification.
+7 48		F.		EED AND PROFIT Markup: The allowable markup percentage to a COR by the GC and Sub-contractors for
+0 19		١.		and and profit. All of the following are expenses associated with overhead and profit and shall not be
+9 50				irsable as individual items on any COR:
51			1.	CHANGE ORDER PREPARATION: All costs associated with the preparing and processing of the change
52			1.	order.
53			2.	DESIGN, ESTIMATING, AND SUPERVISION: All such efforts, unless specifically requested by Owner as
,,			۷.	DESIGN, ESTIMATING, AND SOFERNISION. All such efforts, utiless specifically requested by Owner as

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INSTALLATION LAYOUT: The layout required for the installation of material and equipment, and the

additional Work to be documented as a COR or portion thereof.

installation design, is the responsibility of the GC.

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b.

c.

cutting oil, and similar items.

including but not limited to the following:

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d. All other items including but not limited to review, coordination, estimating and expediting, field and office supervision, administrative work, etc. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a contract and supervised by the Gerel Contractor. Contract Extension: The necessary amount of time to be added to the contract Received in the contract of the contract or and the contract or the contract or the contract or and	12			documented as a Change Order proposal or portion thereof.
6. Contract Extension: The necessary amount of time to be added to the contract deadlines for the completion of a change order. CONTRACT EXTENSION A The GC shall not assume that every COR will require a Contract Extension. If the GC feels a contract extension is warranted he/she shall provide sufficient scheduling information that shows how the COR being requested impacts the critical path of the project. B. The City of Madison strongly encourages the GC to explore alternative methods and practices prior to submitting a COR with a request for contract extension. OVERHEAD AND PROFIT MARKUP 1.5. OVERHEAD AND PROFIT MARKUP A. Pursuant to the City of Madison Standard Specifications for Public Works Construction, Section 104.7, Extra Work, the following maximum allowable markups shall be strictly enforced on all change orders associated with the execution of this contract. 1. The total maximum overhead and profit shall not exceed fifteen percent (15%) of the total costs. 2. The total maximum overhead and profit shall not exceed fifteen percent (15%) of the total costs. 2. The total maximum overhead and profit shall be distributed as follows: 3. For work performed and materials provided solely by the General Contractor, fifteen percent (15%) of the total costs. 3. Lie. PREFORMANCE REQUIREMENTS A. The GC shall become thoroughly familiar with this specification as it will identify procedures and expenses that are or are not allowed under the Change Order and Change Order Request process. 3. Lie. Carefully reviewing the CB that is associated with the COR. 3. Lie work is a supervision of the GC, five percent (5%) of the total Sub-contractor cost. 3. Lie. Carefully reviewing the CB that is associated with the COR. 3. Lie work is a supervision of the GC of that is associated with the COR. 3. Lie work is a supervision of the GC of that is the unit bid prices previously established. 4. Lie Collecting required supporting documentation from all contractors that quantify the need for a COR. 4. Lie Completion	13			d. All other items including but not limited to review, coordination, estimating and expediting, field
change order. Contract Extension	14			and office supervision, administrative work, etc.
1.4. CONTRACT EXTENSION A. The GG shall not assume that every COR will require a Contract Extension. If the GC feels a contract extension is warranted he/she shall provide sufficient scheduling information that shows how the COR being requested impacts the critical path of the project. B. The City of Madison strongly encourages the GC to explore alternative methods and practices prior to submitting a COR with a request for contract extension. OVERHEAD AND PROFIT MARKUP A. Pursuant to the City of Madison Standard Specifications for Public Works Construction, Section 104.7, Extra Work, the following maximum allowable markups shall be strictly enforced on all change orders associated with the execution of this contract. 1. The total maximum overhead and profit shall not exceed fifteen percent (15%) of the total costs. 2. The total maximum overhead and profit shall not exceed fifteen percent (15%) of the total costs. 2. The total maximum overhead and profit shall be distributed as follows: a. For work performed and materials provided solely by the General Contractor, fifteen percent (15%) of the total costs. b. For work performed and materials provided solely by Sub-contractors and supervised by the General Contractor: i. Supervision of the GC, five percent (5%) of the total Sub-contractor cost. ii. Supervision of the GC, five percent (5%) of the total Sub-contractor cost. iii. Sub-contractors work and materials ten percent (10%) of the total Sub-contractor cost. iii. Sub-contractors work and materials ten percent (10%) of the total Sub-contractor cost. A. The GG shall be come thoroughly familiar with this specification as it will identify procedures and expenses that are or are not allowed under the Change Order and Change Order Request process. A. The GG shall be responsible for all of the following: 1. Carefully reviewing the CB that is associated with the COR. 2. Collecting required supporting documentation from all contractors that quantify the need for a COR. a. Labor hours and wage rates b	15		G.	
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55 56 1.7. QUALITY ASSURANCE 57 A. The GC shall be responsible for ensuring that all COR supporting documentation meets the following				
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57 A. The GC shall be responsible for ensuring that all COR supporting documentation meets the following		1.7.	ΟΠΑΙ	LITY ASSURANCE
		,,	•	
				· · · · · · · · · · · · · · · · · · ·

SMALL TOOLS AND SUPPLIES: The cost of small hand tools with an initial cost of \$1,500 or less, along

with consumable supplies and expendable items such as drill bits, saw blades, gasoline, lubricating or

OTHER COSTS: Any miscellaneous cost not directly assessable to the execution of the Change Order

with direct labor and material such as job trailers, foreman truck, and similar items.

RECORD DRAWINGS: The preparation of record or as-built drawings.

All association dues, assessments, and similar items.

All education, training, and similar items.

GENERAL EXPENSE: The general expense, which is those items that are a specific job cost not associated

All drafting and/or engineering, unless specifically requested by Owner as additional Work to be

1

2			2. No costs exceed the usual and customary amount for such items available in the geographical area of the							
3		_	project, and no costs exceed those established under the contract.							
4		В.	The Project Engineer (PE), City Project Manager (CPM), other members of the consulting staff, and city staff shall							
5			review all COR requests to ensure that the intent of the CB will be met under the proposal of the COR or request							
6			additional information as necessary.							
7 8	PART 2 – PRODUCTS									
9										
10	2.1.		IGE ORDER REQUEST FORM							
11		A.	Will be provided by CPM.							
12 13	PART	3 - EXE	CUTION							
14										
15	3.1.	ESTA	BLISHING A CHANGE ORDER REQUEST							
16		A.	Upon receipt of a Construction Bulletin (CB) where the GC believes a significant change in contract scope							
17			warrants the submittal of a COR the GC shall do all of the following within ten (10) working days after receipt of							
18			the CB:							
19			1. Review the CB with all necessary trades and sub-contractors required by the change in scope.							
20			a. Additions or deletions to the contract scope shall be as directed within the CB.							
21			b. Additions or deletions of labor and materials shall be determined by the GC based on the							
22			directives of the CB.							
23			2. Assemble all required back-up documentation for additions and deletions including material breakdown,							
24			labor breakdown and other related contract costs as previously outlined in this specification.							
25			3. Submit a COR request form.							
26		В.	Submitting a COR does not obligate the GC to complete the work associated with the COR nor does it obligate							
27			the Owner to approve the COR as a change to the contract.							
28										
29	3.2.		IGE ORDER REQUEST REVIEW, APPROVAL, AND PROCESSING							
30		A.	The PE and CPM shall review all CORs submitted by the GC.							
31			1. Additional consulting staff and city staff having knowledge of the components of the COR shall review							
32			and advise the PE and CPM as to the accuracy of the items, quantities, and associated costs of the COR as							
33			directed by the CB.							
34		_	2. The CPM shall review the COR with the Owner.							
35		В.	If required the PE and CPM, shall in good faith, further negotiate the COR with the GC as necessary. All							
36		•	amendments to any COR shall be documented.							
37		C.	After final review of the COR the CPM and Owner may accept the COR.							
38		D.	The CPM shall prepare the COR in the form of an official Board of Public Works Change Order for final review and							
39		-	approval as outlined in Section 01 26 63 Change Order (CO).							
40		E.	The GC shall not act upon any accepted COR until it has received final approval through the Public Works process							
41			as an official CO to the Work unless instructed to do so by the CPM. Proceeding without the final approval of a							
42			fully authorized Change Order is at the GC's own risk.							
43 44	3.3.	ENTE	CENCY CHANGE OPDED DECLIEST							
	3.3.		IGENCY CHANGE ORDER REQUEST							
45 46		A.	In the event Work is required due to an emergency as described in the Contract Documents, the GC must							
46 47			request an equitable adjustment as soon as practicable, and in no case later than ten (10) working days of the commencement of such emergency.							
		D	The GC shall provide full documentation of all labor, materials and equipment used during the period of							
48		В.	emergency as part of the COR submittal.							
49 50			energency as part of the CON submittal.							
51										
52										
53			END OF SECTION							
55			LITE OF SECTION							

Sufficiently indicates labor, material, and other expenses related to completing the intent of the CB.

			SECTION 01 26 63 CHANGE ORDER (CO)
-	1.1.		ARY
	1.2.		D SPECIFICATION SECTIONS
	1.3.	_	OF PUBLIC WORKS PROCEDURE
PART	2 – P		<u>)</u>
:	2.1.	CHANG	E ORDER FORM
PART	3 - E>		V
3	3.1.	PREPAR	RATION OF THE CHANGE ORDER
3	3.2.	EXECUT	TON OF THE CHANGE ORDER
PART	1 – G	ENERAL	
1.1.	SUI	MMARY	
	A.	Excep	ot in cases of emergency, no changes in the Work required by the Contract Documents may be made the General Contractor (GC) without having prior approval of the City Project Manager (CPM).
	В.		City may at any time, without invalidating the Contract and without Notice to Sureties, order changes in Work by written Change Order. Such changes may include additions and/or deletions.
	C.	The C	Change Order (CO) is a Board of Public Works (BPW) form that is reviewed and approved by a specific ess.
	D.	The C	CO form is typically made up of multiple Change Order Requests (CORs) and/or Bid Items as appropriate
		depe	nding on the type of project and how the contract was bid.
1.2.	RFL	ATED SP	ECIFICATION SECTIONS
	Α.		on 01 26 63 Change Order Request (COR)
1.3.	во	ARD OF P	PUBLIC WORKS PROCEDURE
	Α.	_	Board of Public Works has a very explicit procedure for the review and approval of all change orders
	,		ciated with any Public Works Contract as follows:
		1.	The Supervisory Chain of the CPM shall review and approve any CO under \$10,000 provided it does not
		1.	include either of the following:
			S Comment of the comm
			a. The CO does not request a time extension to the contract.
		2	b. The CO does not cause the contract contingency sum to be exceeded. The Record of Public Wester had been accounted as a contract contingency sum to be exceeded.
		2.	The Board of Public Works shall review and approve any CO that requires any of the following:
			a. Any CO over \$20,000.
			b. Any CO requesting a time extension to the contract regardless of the monetary value of the CO.
			c. Any CO that that causes the contract contingency sum to be exceeded.
	В.		Board of Public Works generally meets every other week and only once in August and December. The GC is
			oned that, under normal scheduling, a CO requiring a BPW review will take a minimum of two (2) weeks to
		achie	eve final approval.
		1.	The City shall not be responsible for additional delays to the Work caused by the scheduling constraints
			of the Board of Public Works.
	C.	<u>SPEC</u>	IAL NOTE: The GC is cautioned to never proceed unless told to do so by the CPM. Only in rare instances
		may t	the CPM give a written notice to proceed on a COR without an approved CO. Proceeding without the
		writte	en notice of the CPM or an approved CO is at the GC's own risk.
DART	2 _ D	RODUCTS	s ·
IANI	<u> </u>	NODOCI.	2
2.1.	CH	ANGE OR	DER FORM
	A.	Provi	ded by CPM.
PART	3 - F	KECUTIO	N
<u>i ANI</u>	J - L/	<u> </u>	<u>-</u>
3.1.			ON OF THE CHANGE ORDER
	A.	The C	CPM shall prepare the required CO as follows:
		1	Provide information for all contract information

1			2.	Provide a general description of the items described within the change order.
2			3.	Provide detailed information for each Item on the CO form. At the option of the CPM he/she may include
3				multiple Change Order Requests each as their own item.
4			4.	Provide required pricing breakdown and accounting information as needed for the item.
5			5.	Insert attachments of contractor/architect provided information that clarifies and quantifies the CO.
6				Attachments may include but not be limited to material lists, estimated labor breakdown, revised details
7				or specifications, and other documents that may be related to the requested change.
8			6.	Save the final version of the completed CO.
9				
10	3.2.	EXEC	UTION	OF THE CHANGE ORDER
11		A.	The C	GC shall do the following:
12			1.	Review all items on the CO form.
13			2.	The GC shall notify the CPM immediately of any errors or discrepancies on the form and shall not sign or
14				save it.
15				a. The CPM shall make any corrections as needed, re-save the form, and notify the GC.
16			3.	If/when the GC concurs with the CO form as drafted the GC shall digitally sign the form.
17		В.	The 0	CPM shall do the following:
18			1.	Monitor the review process
19			2.	Ensure that proper BPW procedures are executed as needed by the CO approval process.
20				a. Schedule the CO on the next available BPW agenda if required.
21				 Attend the BPW meeting to speak on the CO to board members and answer questions.
22				The GC and/or PE may be required to attend the BPW meeting to address specific
23				information as it relates to the Work and/or materials associated with the CO.
24			3.	Monitor final approval and distribution of the CO.
25			4.	Notify the GC that the CO has been completed.
26			5.	Ensure that the CO is posted to the next Public Works payment schedule.
27			6.	Verify that the GC's next Progress Payment-Schedule of Values show the CO as part of the contract sum.
28		C.	Upor	n final approval of the CO the GC may proceed with executing the Work associated with the CO.
29				
30				
31				
32				END OF SECTION
33				

1 2			SECTION 01 33 23 SUBMITTALS
3 4	PΔRT	1 – G	SENERAL
5		1.0 l.1.	SUMMARY
6		L.2.	RELATED REFERENCES
7		L.3.	SUBMITTAL REQUIREMENTS
8		-	RODUCTS – THIS SECTION NOT USED
9			XECUTION
10	3	3.1.	GENERAL CONTRACTORS PROCEDURES
11	3	3.2.	SUBMITTAL REVIEW
12	3	3.3.	PROJECT ENGINEERS REVIEW
13			
14	PART	1 – G	GENERAL CONTROL OF THE PROPERTY OF THE PROPERT
15			
16	1.1.		MMARY The Constant Contractor (CC) shall be reconstitle for any didicator by withele for any invested to extract any and sub-
17		A.	The General Contractor (GC) shall be responsible for providing submittals for review of all contractors and sub-
18 19			contractors as designated in the construction documents. Submittals shall include but not be limited to all of the
20			following: 1. Equipment specified and pre-approved in the specification; to ensure quality, construction, and
21			performance specifications have not changed since final design.
22			2. Equipment specified by performance in the specification; to ensure that the intended quality,
23			construction, and performance specified is met by the selected material or product.
24			3. Shop, piece, erection, and other such drawings as indicated in the specifications to ensure all structural,
25			dimensional, and assembly requirements are being met.
26			4. Submittals indicating installation sequencing
27			5. Submittals indicating control sequencing
28			6. Contractor licensing, certification, and other such regulatory documentation when required by a
29			specification.
30			7. Other submittals as may be required by individual specifications.
31		В.	The submittal process shall not be used to determine alternates to specified products or equipment. All
32			considerations shall be reviewed during the bidding process and acceptable alternates shall be acknowledged by
33			addendum prior to the closing of bidding. See bidding instructions for the information on submitting alternates
34			for consideration.
35		D.	In the event that a manufacturer has significantly changed a product (discontinued a model, changed dimension
36			or performance data changed available colors, etc.) since bid opening the GC shall Notify the City Project
37		_	Manager requesting other approved alternates prior to uploading a digital submittal.
38		E.	Contractors and sub-contractors shall be responsible for knowing the submittal requirements of ALL sections
39 40			within their scope of work under the contract. The Owner reserves the right to request documentation on any
40			materials, equipment, or product being installed where a submittal is not on file. If the material, equipment, or product installed is determined not to meet the intent of the specification the contractor/sub-contractor shall be
42			required to remove and replace the items involved. The GC shall be solely responsible for all costs associated
43			with the removal and replacement.
44			with the removal and replacement.
45	1.2.	REL	LATED REFERENCES
46		A.	All Technical Specifications, contract documents, construction drawings, and any published addendums during
47			the bidding process.
48		В.	All contract documents generated during the execution of the contract.
49			
50	1.3.	SUE	BMITTAL REQUIREMENTS
51		A.	A completed submittal shall meet the following requirements:
52			1. Digital submittal shall be original PDF of manufacturer's data sheets or high quality color scan of the
53			same.
54			a. Submittals shall not include sales fliers or other similar documents that typically do not provide
55			complete manufacturers data.
56			2. Documents within the PDF submittal shall be printable to a sized sheet no less than 8-1/2 by 11 inches
57			and no larger than 24 by 36 inches.

4.

RED block letters that the submittal is for.

1

2

3

57 58

4 5			submitted by using a RED square, box, or other designation to distinguish the correct model from others
		В.	on the page. A complete submittal will include all information associated with the product or equipment as presented in
6 7		Б.	plans, equipment tables, and specifications. Information shall include but not be limited to the following:
8			1. Dimensional data
9			2. Performance data
10			3. Resource requirements, power, water, waste, etc.
11			4. Clearance and maintenance requirements
12			5. Finish information, colors, textures, etc.
13			6. Warranty information
14		C.	Where a submittal includes material samples (carpet, tile, paint draw downs, etc.) the contractor shall do the
15			following:
16			1. The Contractor shall submit the sample(s) as indicated in the specification.
17			2. The Contractor shall include a quality photograph(s) of the product with the digital submittal.
18			Photographs shall meet the following requirements:
19			a. Formatted to be between 500Kb and 1.0 Mb in file size
20			b. Have no glare or flash reflection on the sample
21			c. Sample fills the frame of the photo and shows detail as needed. Include multiple photos from
22			other angles as needed.
23			d. Scanned copies of products or photos are not acceptable.
24		D.	Uploaded submittals should be relative and related to a specific written specification.
25			1. <u>Do not</u> upload submittals under a broad category or division (I.E. HVAC 23 00 00). Always upload by the
26			specific specification that identifies a required product or performance to be met.
27			2. Group related items together if the specification is written that way. (I.E. all of the plumbing fixtures and
28			trim relative to one specific specification should be submitted together).
29			3. Submittals shall be grouped and adhere to the divisions in the submittal schedule. Submittals that do no
30			conform to the submittal schedule and/or specification divisions will be rejected for re-submittal.
31 32	DADT	2 _ DD(ODUCTS – THIS SECTION NOT USED
33	FAIL	<u> </u>	ODUCIS - ITIIS SECTION NOT USED
34	DΔRT	3 - FXF	CUTION
35	<u>ı Aıtı</u>	J LAL	CONON
36	3.1.	GENE	ERAL CONTRACTORS PROCEDURES
37		Α.	All required submittals will be submitted electronically by the GC.
38		В.	Uploading the submittal indicates that the GC has reviewed and approved the submittal against the contract
39			document requirements.
40		C.	The GC shall discuss submittal status at all progress meetings and shall monitor submittal review/approval/re-
41		٥.	submittal so as to not incur delays in the project schedule.
42		D.	The GC and sub-contractors shall provide re-submittals as required.
43		٥.	The Go and san contractors shall provide to summed as required.
44	3.2.	SUBN	AITTAL REVIEW
45		Α.	The submittal shall be reviewed internally by the required Architect/Engineer and Owner Representative in a
46			timely fashion and provide commentary on missing items, incorrect information, or incomplete shop drawings,
47			etc. as needed.
48		В.	When the internal review is completed the CPM will notify the Project Engineer the submittal is ready for final
49		٥.	review.
50		C.	Information will be transmitted electronically.
51		C.	mornadon will be dansiniced electronically.
52	3.3.	PR∩I	ECT ENGINEERS REVIEW
53	5.5.	A.	Upon completion of the internal review the Project Engineer shall review all internal review comments, confer
54		,	with the CPM as needed and determine the appropriate disposition status for the submittal (approved or
55			resubmit).
56		В.	The Project Engineer shall summarize final internal review comments onto the submittal cover sheet, provide a

At the beginning of each submittal the contractor shall identify the plan reference (WC-1, EF-3, etc.) in

Where multiple model numbers appear in a table the contractor shall identify the specific model being

comments) or "Rejected".

final disposition of the submittal and update the review status of the submittal to "Complete..." (With or w/o

1 2	C.	A completed Final Review status initiates the CPM to notify the GC and appropriate sub-contractor(s) that the review of the submittal has been completed.
3	D.	Information will be transmitted electronically.
4		
5		END OF SECTION
6		

1			SECTION 01 60 00						
2	PRODUCT REQUIREMENTS								
3									
4	PART	1 – GI	ENERAL						
5	1	l.1.	SUMMARY						
6	1	L.2.	RELATED SPECIFICATIONS						
7		L.3.	QUALITY ASSURANCE						
8	PART	2 – PF	RODUCTS – THIS SECTION NOT USED						
9	PART	3 - EX	ECUTION						
10	3	3.1.	GENERAL CONTRACTOR REQUIREMENTS						
11	3	3.2.	BULK MATERIAL						
12	3	3.3.	DRY PACKAGED MATERIAL						
13	3	3.4.	STRUCTURAL AND FRAMING MATERIAL						
14	3	3.5.	EQUIPMENT						
15	3	3.6.	FINISH PRODUCTS						
16	3	3.7.	DUCTWORK, PIPING, AND CONDUIT						
17	3	3.8.	OWNER PROVIDED, CONTRACTOR INSTALLED EQUIPMENT						
18									
19	PART	1 – G	<u>ENERAL</u>						
20									
21	1.1.	SUN	MMARY						
22		A.	The purpose of this specification is to provide general guidelines and responsibilities related to the receiving,						
23			handling, and storage of all materials and products from arrival on the job site through installation.						
24			 Immediate inspection of delivered goods means a timely replacement if damaged. 						
25			2. Proper storage helps prevent damage and loss by weather, vandalism, theft, and job site accidents.						
26			 Proper storage helps with job site performance and safety. 						
27			4. Proper handling helps prevent damage and job site accidents.						
28		В.	Each Contractor shall be directly responsible for the receiving, handling, and storage of all materials and						
29			products associated with the work of their Division or Trade.						
30		C.	Each Contractor responsible for work associated with Owner provided materials or products shall be responsible						
31			for the receiving, handling and storage of the material/product as outlined in Section 3.8 below						
32									
33	1.2.	REL	ATED SPECIFICATIONS						
34		A.	Parts of this specification will reference articles within "The City of Madison Standard Specifications for Public						
35			Works 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 <u>2</u> 10.2" click the link for Part II, the Part II						
40			PDF will open.						
41			b. Scroll through the index of Part II for specification 210.2 and click the text link which will take you						
42			to the referenced text.						
43			c. City Standard Detail Drawings (SDD) may be located from the index in Part VIII.						
44		В.	Section 01 74 13 Progress Cleaning						
45		C.	Section 01 74 13 Progress electring Section 01 76 00 Protecting Installed Construction						
46		D.	Other Divisions and Specifications that may address more specifically the requirements for the storage and						
47		υ.	handling of materials and products associated Work of other Divisions or Trades.						
48			handling of materials and products associated work of other Divisions of Trades.						
	1 2	011	ALITY ASSURANCE						
49	1.3.	-							
50 E1		A.	The GC shall be responsible for ensuring that these minimum storage and handling requirements are met by all						
51			contractors on the project site including but not limited to the following:						
52			1. Receiving deliveries of materials, products, and equipment.						
53			a. Inspect all deliveries upon arrival for damage, completeness, and compliance with the						
54			construction documents.						
55			i. Deliveries shall remain in original packaging or crates, shipping manifest shall be kept with						
56			the delivery and the packaging shall have visible identification of the items within the						
57			packaging.						

1				b. Immediately report any damaged products or equipment to the GC, begin arrangements for
2				immediate replacement.
3				c. Materials or equipment that have been damaged, are incomplete, or do not comply with the
4				construction documents shall not be permitted to be installed.
5			2.	All materials and products shall be stored within the designated limits of the project site. Only store the
6				amount of material necessary for upcoming operations so as not to interfere with other construction
7				activities and access to Work by the Owner and Engineer. Any offsite storage shall be at the expense of
8				the contractor storing the material or product. All offsite storage requirements shall comply with this
9				specification. All offsite storage of materials is subject to Owner Representative Quality Management
10				review at any time.
11			3.	Large storage containers may be used but shall be weather tight, securable, placed on concrete blocks,
12				timbers, or jack stands and shall be level.
13			4.	Not Used.
14			5.	Materials and products stored inside of the structure shall comply with all of the following:
15				a. Storage shall not be allowed to impede the flow of work in progress.
16				b. Storage shall not be allowed to hide completed work from review and inspections.
17				c. Storage shall not exceed the design loads of the structural components it is being stored upon.
18			6.	All materials and products shall be stored according the manufacturers minimum recommended
19			0.	requirements. All of the following shall be considered before storing any product or material:
20				a. Dust and dirt
21				b. Moisture and humidity, including rain and snow
22				c. Excessive temperatures, direct sun, etc
23				d. Product or material weight and size
24				e. Potential for breakage
25				f. Product incompatibility with other products such as corrosiveness, chemical reactions,
26				flammability, etc.
27				
28			7.	g. Product or material value and replacement cost The Contractor shall be responsible for providing fully functional tarps or plastic wrap, to protect
29			7.	materials and products from the weather. All coverings shall be free of large holes and tears, and shall be
30				
31			0	tied, strapped, or weighted down to resist blowing.
			8. 9.	Not Used. The Contractor shall be respectible for sequeing materials and products of value such as conner. A //
32			9.	The Contractor shall be responsible for securing materials and products of value such as copper, A/V
33				equipment, etc. Such items shall be stored in securable shipping containers, job trailers or other such
34		Б	Th - C(storage devices. Container shall be kept secured when not in use.
35		В.		C shall inspect the job site daily to ensure that all products and materials stay weather tight and are
36		_		ed against vandalism or theft as required by this specification.
37		C.		wners Representative may at any time request improvements regarding storage of any material or product
38			being	provided under these construction documents.
39				
40	PART	2 – PRC	DUCTS	- THIS SECTION NOT USED
41				
42	PART	3 - EXE	UTION	
43	2.4	CENE		NITD A CTOD DECUMPERATINE
44	3.1.			NTRACTOR REQUIREMENTS
45 46		A.	_	nate material storage and handling areas as needed including all of the following: Designate specific areas of the site for delivery and storage of materials to be used during the execution.
46			1.	Designate specific areas of the site for delivery and storage of materials to be used during the execution
47			2	of the Work.
48			2.	Designated areas shall not be located so as to interfere with the installation of any Work including Work
49				by others such as the installation of utilities or the maintenance of existing utilities. This shall include not
50		Б	NI	storing items in active utility easements as designated by the site plan.
51		В.	Not Us	
52		C.		ted moving and handling of items being stored shall not be allowed. The GC shall be responsible for any
53			damag	ge and replacement because of mishandling or excessive handling.
54	• •		====	
55	3.2.		MATERI	
56		A.	Not Us	sea.
57				

1	3.3.	DRY	PACKA	GED MATERIAL
2		A.	Not	Used.
3				
4	3.4.	STRU	JCTUR#	AL AND FRAMING MATERIAL
5		A.	Not	Used.
6				
7	3.5.	EQU	IPMEN	Г
8		A.	Not	Used.
9				
10	3.6.	FINIS	H PRO	DUCTS
11		A.	Finis	h products such as flooring, tile, counters, lockers, toilets, partitions, lighting, and other similar items should
12			not l	be delivered and stored until the structure has been enclosed, is weather tight, temperature controlled and
13			the o	contractor is ready for such items to be installed.
14			1.	Storage of finished products outside for any length of time shall not be allowed.
15		В.	Prod	ucts that cannot be stored inside the structure shall be stored in secured containers or job trailers until such
16			time	as they are ready to be installed.
17		C.	Prod	ucts with a high potential for breakage such as glass, mirrors, tiles, toilet fixtures, etc. shall be stored with
18				tional protection as necessary such as but not limited to the following:
19			1.	Store in original shipping containers until ready for installation.
20			2.	Do not store in high traffic areas.
21			3.	Shield with other materials such as cardboard, plywood, or similar products.
22				
23	3.7.	DUC.	TWORK	C, PIPING, AND CONDUIT
24		A.	Not	Used.
25				
26	3.8.	own	IER PR	OVIDED, CONTRACTOR INSTALLED EQUIPMENT
27		A.	Not	Used.
28				
29				
30				
31				END OF SECTION
32				

			SECTION 01 73 29	
			CUTTING AND PATCHING	
PΔRT	1 – G	FNFRΔI		1
	1.1.		ARY	
	1.2.		D SPECIFICATION SECTIONS	
	1.3.	DEFINIT	TIONS	1
	1.4.	QUALIT	Y ASSURANCE	1
	1.5.	WARRA	NTY	2
PART	2 - M	IATERIAL:	5	2
	2.1.	GENER	AL	2
PART	3 - E)		V	
	3.1.		VATION	
	3.2.		RATION	
	3.3.	_	RMANCE	
	3.4.	CLEAN	JP AND RESTORATION	3
PART	1-6	<u>SENERAL</u>		
1.1.	SUI	MMARY		
	Α.		Section includes general procedural requirements for cutting and patching including, but not limited to the	e
			wing:	
		1.	Typical areas of cutting and patching for this project may include cutting and patching of metal deck an	d
			wall for enlarging scuppers.	
		2.	Examination	
		2.	Preparation	
		3.	Performance	
		4.	Cleanup and Restoration	
1.2.	REI	LATED SP	ECIFICATION SECTIONS-THIS SECTION NOT USED	
1.3.		FINITION		
	A.		ng: Removal of in-place construction necessary to permit installation or performance of other Work.	
	В.		ning: Fitting and repair work required to restore surfaces to original conditions after installation of other	
		Worl	С.	
1.4.	οu	ALITY AS	SURANCE	
	Α.		ctural Elements: Do not cut and patch structural elements in a manner that could change their load-carryin	กฮ
			city or load-deflection ratio.	.0
	В.	•	rational Elements: Do not cut and patch operating elements and related components ina manner that resu	ılts
		•	ducing their capacity to perform as intended or that may result in increased maintenance or decreased	
			ational life or safety.	
	C.		ellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that	at
			d change their load-carrying capacity that results in reducing their capacity to perform as intended, or that	
			result in increased maintenance or decreased operational life or safety. Some miscellaneous elements	
		-	de the following:	
		1.	Water, moisture, or vapor barriers	
		2.	Membranes and flashings	
		3.	Exterior curtain-wall construction	
		4.	Equipment supports	
		5.	Piping, ductwork, vessels, and equipment	
		6.	Noise and vibration control elements and systems	
	D.	Visua	al Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting a	ind
			ning. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that	
			d, in Engineer's opinion, reduce the building's aesthetic qualities. Remove and replace construction that h	ıas
			cut and patched in a visually unsatisfactory manner.	

1.5. WARRANTY

- 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

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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.

PART 3 - EXECUTION

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3.1. EXAMINATION

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

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3.2. PREPARATION

- A. Temporary Support: Provide temporary support of Work to be cut.
 - B. Protection: Protect in-place construction 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.
 - C. 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.

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3.3. PERFORMANCE

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

1 2		D.	Inspec	ction: Where feasible, test and inspect patched areas after completion to demonstrate integrity of
3			IIIStali	ation.
4	3.4.	CLFAI	NUP AN	D RESTORATION
5	• • • • • • • • • • • • • • • • • • • •	Α.		re exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a
6				er 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.	Ceilings: Patch, repair, or re-hang in-place ceilings as necessary to provide an even-plane surface of
17				uniform appearance.
18			6.	Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weather tight
19				condition.
20			7.	Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint,
21				mortar, oils, putty, and similar materials.
22			8.	Any smoke and fire caulking that has been disturbed must be replaced by the Contractor as required by
23				Code.
24				
25				
26				END OF SECTION
27				

а

		SECTION 01 74 13 PROGRESS CLEANING
PART 1	– GEN	IERAL
1.1		SUMMARY
1.2	2. F	RELATED SPECIFICAITONS
1.3		QUALITY ASSURANCE
PART 2	- PRO	DUCTS
2.1	1. (CLEANING MATERIALS AND EQUIPMENT
PART 3	- EXE	CUTION
3.1	1. 9	SAFETY CLEANING
3.2	2. F	PROJECT SITE CLEANING
3.3		PROGRESS CLEANING
3.4	4. F	FINAL CLEANING
3.5	5. (CALL BACK WORK
PART 1	– GEI	<u>VERAL</u>
		MARY
	A.	Throughout the execution of this contract all contractors shall be responsible for maintaining the project site in standard of cleanliness as described in this specification.
	В.	All contractors shall also comply with the requirements for cleaning as described in other specifications.
	C.	Work included in this specification shall include but not be limited to:
		1. Safety Cleaning
		2. Project Site Cleaning
		3. Progress Cleaning
		4. Final Cleaning
		TED SPECIFICAITONS
	A.	Not Used
	В.	Section 01 74 19 Construction Waste Management and Disposal
	C.	Section 01 76 00 Protecting Installed Construction
1.3.	QUAL	ITY ASSURANCE
	A.	The General Contractor (GC) shall conduct daily inspections, more often if necessary, of the entire project site
		ensure the requirements of cleanliness are being met as described within these specifications.
	В.	All contractors shall comply with other regulatory requirements as they apply to waste recycling, reuse, haulin
		and disposal requirements of any governmental authority having jurisdiction.
	C.	The Owner reserves the right to have work done by others in the event any contractor fails to perform cleaning
		as described within these specifications. The cost of any Owner provided cleaning shall be charged to the
		contractor through a deduct change order.
PART 2	- PRC	<u>DDUCTS</u>
2.1.	CLEA	NING MATERIALS AND EQUIPMENT
	A.	The Contractor shall provide all required personnel, equipment, and materials necessary to maintain the
	_	required level of cleanliness as described in this specification.
	В.	Use only cleaning materials and equipment that are compatible with the surface being cleaned, as
	_	recommended by the manufacturer, or as approved by the A/E.
	C.	Use only cleaning materials, equipment, and methods as recommended in the manufacturers care and use gui- of the material, finish or equipment being cleaned.
PART 3	- EXE	<u>CUTION</u>
		TY CLEANING All Contractors shall be responsible for safety cleaning as required by OSHA and other regulatory requirements
	A.	All Contractors shall be responsible for safety cleaning as required by OSHA and other regulatory requirements as applicable.
	В.	Safety Cleaning shall include but not be limited to the following:
	٥.	Safety cleaning shall include but not be innited to the following.

_				
1			1.	All work areas, passageways, ramps, and stairs shall be kept free of debris, scrap materials, pallets, and
2				other large items that would obstruct exiting routes. Small items such as tools, electrical cords, etc are
3			_	picked up when not in use.
4			2.	Form and scrap lumber shall have nails/screws removed or bent over. Lumber shall be neatly stacked in
5			•	an area designated by the GC.
6 7			3.	Spills of oil, grease, and other such liquids shall be cleaned immediately or sprinkled with sand/oil-dry first, then cleaned.
8			4.	Oily, flammable, or hazardous items shall be stored in appropriate covered containers and storage
9			••	devices unless actively being used.
10			5.	Oily, or flammable rags, and other such waste shall only be disposed of in authorized covered containers.
11			6.	Disposal by burning shall not be allowed at any time.
12			0.	Disposal by burning shall not be allowed at any time.
12 13	3.2.	DDOI	ECT CITE	E CLEANING
15 14	3.2.			
		A.		ection applies to the general cleanliness of the project site as a whole for the duration of the execution of
15		Б		ontract.
16		В.		or Project Site Areas
17			1.	The GC and other Contractors as appropriate shall ensure the following levels of cleanliness are applied
18				to the exterior project site areas.
19				a. The overall appearance of the project site is neat and orderly. Defined areas for material storage,
20				material waste, job trailers, and the project area are clean and well maintained.
21				b. The construction fence is maintained, erect with no gaps, and properly posted per all regulatory
22				requirements.
23				c. All erosion control measures are properly maintained, cleaned, and repaired as necessary.
24				d. All loose materials (construction or waste) are properly tied or weighted down to resist blowing.
25				e. All construction materials are properly covered with fully functional tarps or plastic wrap,
26				protected from the weather, coverings are tied, strapped, or weighted down to resist blowing.
27				f. Dust control is applied as necessary or as required by any regulatory requirement.
28		C.	Interio	or Project Site Areas
29		C.	1.	All Contractors shall ensure the following levels of cleanliness are applied to the interior project site
30			1.	
				areas.
31				a. The overall appearance of the project site is neat and orderly. Defined areas for material storage,
32				material waste, and project area are clean and well maintained.
33				b. Stored materials are kept in original shipping containers whenever possible. Stored materials not
34				in shipping containers are properly stored and protected according to other applicable
35				specifications.
36				c. All scraps and debris shall be properly disposed of as often as necessary to keep work areas,
37				passageways, stairs, and ramps free of debris and clear for emergency exiting.
38				d. Boxes, pallets, and other such shipping containers, are broken down, stored in a consolidated area
39				or, disposed of as often as is necessary.
40				e. Hand tools, supplies, materials, electrical cords not being used are picked up and stored in gang
41				boxes, not left as walking hazards in work areas, passageways, etc.
42		D.	Not U	
43				
44	3.3.	PROG	RESS CL	LEANING
45		A.	This su	ub-section shall apply to all Progress Cleaning prior to the installation of finishes, fixtures, and trim (IE
46			rough	
47			1.	For the purposes of this section "clean" shall be defined as a level of cleanliness free of dust and other
48				material capable of being removed by use of reasonable effort using a good quality janitor broom and
40 49				shop-vac.
			2	
50 - 1			2.	Daily cleanings shall be conducted by all contractors at the end of the work day as follows:
51				a. Debris in excavated areas shall be removed prior to backfill and compaction.
52				b. Debris in wall cavities, chase spaces, etc shall be removed prior to enclosing the spaces.
53				c. Large items shall be properly stored, returned to designated areas, or disposed of as necessary.
54				d. Loose materials shall be properly secured.
55				e. Flammable or hazardous materials are properly stored or disposed of.
56			3.	Weekly cleaning shall be conducted by all contractors as designated by the GC. Weekly cleanings shall
57				include all the above for a daily cleaning and other necessary cleaning as designated by the GC.
58		В.	This su	ub-section shall apply to Progress Cleaning in preparation for the installation of finishes, fixtures, and trim.

1			a.	Surfaces receiving finishes shall be thoroughly cleaned prior to contractors applying finish
2				materials. The GC shall be responsible for inspecting the area and surfaces being cleaned for
3				finish prior to the sub-contractor applying the finish. This shall include but not be limited to the
4				following:
5				i. Wall surfaces shall be wiped clean of dirt and oily residues, vacuumed free of dust, and
6				shall be free of surface imperfections prior to painting or installing wall coverings.
7				ii. Metal surfaces shall be wiped clean of dirt and oily residues, and be free of surface
8				imperfections prior to painting.
9				iii. Flooring shall be broom swept of large and loose items then vacuumed clean of dust and
10				small particles, and damp mopped clean and dried prior to installing any flooring finish.
11				Additional cleaning may be required depending on the preparation requirements
12 13		C.	This sub-soct	recommended by the flooring material manufacturer. ion shall apply to Progress Cleaning after the installation of finishes, fixtures, and trim.
14		C.		ne purposes of this section "clean" shall be defined as a level of cleanliness free of dust and other
15				rial capable of damaging or visually disfiguring finished work, finishes, fixtures, and trim.
16				ress Cleaning at this point in the contract shall be conducted immediately as follows:
17			a.	Dust, dirt, etc shall be swept and vacuumed off of finish flooring and trim.
18			b.	Liquid spills shall be cleaned up according to the spill type. This shall include drips and spills
19			δ.	caused by paint, stain, sealants, and other such items.
20			3. The C	Contractor(s) at no additional cost to the Owner shall be responsible for replacing any finished work,
21				es, fixtures, and trim damaged or disfigured because of inadequate or improper cleaning.
22				
23	3.4.	FINAL	CLEANING	
24		A.	Final Cleanin	g shall not be conducted prior to requesting the 90% contract total progress payment and all of the
25			following sha	all be complete:
26			1. All fin	nal regulatory inspections including but not limited to Building Inspection Department and Madison
27			Fire D	Department inspections have been successfully completed where applicable.
28			2. Not U	Ised.
29			3. All De	emonstration and Training has been completed.
30				tic Stock has been consolidated and located to its designated area
31				otection for installed construction shall be removed prior to final cleaning by the contractor
32				nsible for providing the protections. This shall include the removal of any adhesive residues left
33				d from tapes. Contractors shall only use manufacturer authorized cleaning materials for removing
34		_		sives, etc.
35		B.		oses of this section "clean" shall be defined as a level of cleanliness generally provided by skilled
36		6		g commercial quality building maintenance equipment and materials.
37		C.		be responsible for ensuring that all requirements under this section are being met.
38		D.	General Requ	
39 40				by experienced personnel or professional cleaners for final cleaning as necessary for the areas or
41				iment being cleaned. iing equipment used shall be commercial grade equipment commonly used by professional cleaners.
42				ing equipment and materials shall be cleaned, rinsed, or replaced to ensure a uniform level of
43				liness is being maintained during the final cleaning. This shall include but not be limited to the
44			follov	
45			a.	Vacuum cleaner bags and/or filters are changed and/or cleaned as often as necessary.
46			b.	Dust & wipe down rags are washed, rinsed, or replaced before starting each room.
47			c.	Mopping equipment
48				 Mop water for washing shall have cleaning solution added to the amount and temperature
49				per manufacturer's recommendations. Mop washing water shall be replaced often to
50				maintain the levels of the cleaning solution and temperature required.
51				ii. Mop water for rinsing shall remain clean, clear, and be replaced as often as necessary.
52				iii. Mop heads shall be rinsed often and replaced as necessary.
53				iv. Mop heads and buckets shall be thoroughly rinsed with each change of water.
54				v. Only new mop heads shall be used for rinsing.
55		E.	Refer to all o	ther specifications in this contract for specific requirements regarding final cleaning of finishes,
56			fixtures, equi	
57		F.	Exterior Clea	ning shall include but not be limited to the following:

Not Used.

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1			2.	Not Used.
2			3.	Not Used.
3			4.	Paved areas shall be clean, free of dirt, oily stains and other such blemishes
4			5.	Not Used.
5		G.	Interi	or Cleaning shall include but not be limited to the following:
6			1.	Remove all labels, stickers, tags, and other such items which are not required by code as permanent
7				labels.
8			2.	All interior glazing surfaces, including mirrors, have been professionally cleaned and are free of dust and
9				streaking.
10			3.	All interior surfaces have been cleaned of excess materials such as paint, sealants, etc and have been
11				wiped free of dust.
12			4.	Interior metals, fixtures, and trim have been cleaned free of dust and oily residues
13			5.	Not Used.
14			6.	Hard floors have been thoroughly cleaned; vacuumed free of dust, excess glues and other stains
15				removed, and mopped.
16			7.	Not Used.
17			8.	Light fixtures, lamps, diffusers and other such items have been dusted and cleaned as necessary.
18				
19	3.5.	CALL	BACK W	VORK
20		A.		C shall be responsible for ensuring that any contractor returning to the project site for completion or
21				ction work has re-cleaned and restored the area to the levels described in section 3.4 above upon
22			comp	letion of the work. This shall include but not be limited to the following:
23			1.	The immediate area(s) where work was completed.
24			2.	Adjacent areas where dust or debris may have traveled.
25			3.	Other areas occupied during the completion of the call back work.
26			4.	Path of entrance/exit, to/from the area(s) of work.
27				
28				
29				
30				END OF SECTION
31				

1			SECTION 01 74 19					
2 3	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL							
4	PART 1 – GENERAL							
5	1	l.1.	SUMMARY					
6	1	L.2.	RELATED SPECIFICAITONS					
7		L.3.	CITY ORDINANCES					
8	PART	2 – PI	RODUCTS – THIS SECTION NOT USED					
9	PART	3 - EX	ECUTION					
10		3.1.	GENERAL GUIDELINES FOR ALL WASTES					
11		3.2.	GUIDELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE					
12	3	3.3.	GUIDELINES FOR DISPOSAL OF WASTES					
13								
14	<u>PART</u>	1 – G	<u>ENERAL</u>					
15								
16	1.1.		MMARY					
17		A.	This specification includes administrative and procedural requirements for the recycling, re-use, salvaging, and					
18		_	disposal of non-hazardous construction and demolition waste.					
19		В.	The General Contractor (GC) shall be fully responsible for complying with all applicable ordinances and other					
20			such regulatory requirements during the execution of this contract.					
21	4.3	D.F.I	ATED CONCURRENTANCE					
22 23	1.2.		ATED SPECIFICAITONS 01 33 23 Submittals					
23 24		A. B.	Other Divisions and Specifications that may address the proper disposal of construction or demolition waste as it					
25		ь.	pertains to work being conducted under that particular specification.					
26			pertains to work being conducted under that particular specification.					
27	1.3.	CITY	Y ORDINANCES					
28	2.5.	Α.	There are two (2) Madison General Ordinances (MGO) that the City of Madison has regarding construction and					
29			demolition waste.					
30			MGO 10.185, Recycling and Reuse of Construction and Demolition Debris, describes the requirements					
31			associated with this ordinance including definitions, documentation requirements, and penalties.					
32			2. MGO 28.185, Approval of Demolition (Razing, Wrecking) and Removal, describes the requirements					
33			associated with applying for and receiving a demolition permit.					
34		В.	All City of Madison, Board of Public Works, contracts being conducted by City Engineering, Facility Management,					
35			for construction, remodeling, or demolition shall comply with the above ordinances regardless of project type or					
36			size.					
37								
38								
39	<u>PART</u>	2 – P	RODUCTS – THIS SECTION NOT USED					
40								
41	PART	3 - EX	(ECUTION					
42								
43								
44	3.1.	GEN	NERAL GUIDELINES FOR ALL WASTES					
45		A.	Recycle all paper and beverage containers used by workers, sub-contractors, suppliers and visitors to the project					
46			site.					
47		В.	All revenues, savings, rebates, tax credits, and other such incentives received from recycling, reusing, or					
48			salvaging waste materials shall accrue to the GC unless specified otherwise in the contract documents.					
49		C.	Separate recyclable, reusable, and salvageable waste from other waste materials, trash, and debris-					
50			1. Separate by type in appropriate containers or designated areas according to the approved waste					
51			management plan away from the construction area. Do not store within the drip lines of existing trees.					
52			2. Inspect containers and bins frequently for contamination and inappropriately sorted materials. Remove					
53 54			contaminated materials and resort as necessary. Stockpile bulk materials such as sand, topsoil, stopp, etc., on site away from the construction area and					
54 55			3. Stockpile bulk materials such as sand, topsoil, stone, etc., on site away from the construction area and without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water, and					
55 56			cover to prevent windblown dust. Do not store within the drip lines of existing trees.					
57			4. Whenever possible store items off the ground and/or protect them from the weather.					
J,			i. Tribenevel possible store items on the ground analyor protect them from the weather.					

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3.2. GUIDELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE

- A. The following guidelines is not a complete or all-inclusive list and shall be adjusted as needed by the methods and procedures identified in the Waste Management Plan.
- B. Asphalt Paving: Break-up into transportable pieces or grind, transport to an authorized recycling facility.
- C. Carpet and Pad: Separate carpet and pad scraps, containerize and transport to an authorized recycling facility.
- D. Ceiling System Components: Suspended ceiling system components shall be sorted by material type as follows:
 - Broken, cut, or damaged tiles shall be containerized, transport to an authorized recycling facility.
 - 2. Damaged, or cut tracks, trim and other metal grid system components shall be sorted with other metals of similar types, palletize, transport to an authorized recycling facility.
- E. Clean Fill: When allowed by Division 31 Specifications; concrete, masonry, stone, asphalt pavement, sand and other such materials may be used as clean fill on this project site. The GC shall verify with the Project Engineer, Structural Engineer, or Civil Engineer as necessary prior to using any materials as clean fill. Materials shall be processed, placed, and compacted as specified. If not being re-used on site, transport to an authorized recycling facility.
- F. Clean Wood Materials: Including but not limited framing cutoffs, wood sheathing or paneling materials, structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils, preservatives and other such contaminates.
 - Useable pieces shall be sorted by type and dimension, bundled and transported off site by the GC or returned to the supplier.
 - 2. Non-useable pieces shall be palletized or containerized, transport to an authorized recycling facility.
 - Clean, uncontaminated sawdust and wood shavings shall be bagged, transport to an authorized recycling facility.
- G. Concrete: Break-up into transportable pieces, remove all reinforcing and other metals, transport to an authorized recycling facility.
- H. Glass Products: Shall be sorted by types, do not include light fixture lamps and bulbs. Products broken in shipment shall be returned to the supplier. Broken or cracked items still in frames shall be taped to prevent further breakage and injury to workers. Transport to an authorized recycling facility.
- I. Gypsum Board: Stack large clean pieces on wooden pallets or container, store in a dry location, transport to an authorized recycling facility.
- J. Light Fixture Lamps and Bulbs: Fluorescent tubes shall be containerized, transport to an authorized recycling facility.
- K. Masonry and CMU: Remove all metal reinforcing, anchors, and ties, clean undamaged pieces and neatly stack on pallets, transport damaged pieces to an authorized recycling facility.
- L. Metals: Sort metals by type as follows, this does not include piping:
 - 1. Architectural metals including but not limited to siding, soffit, and roofing panels shall be sorted by material, palletize or bundle as needed and transport to an authorized recycling facility.
 - 2. Structural steel, sort by size and type; palletize and transport to an authorized recycling facility.
 - 3. Miscellaneous metals such as aluminum, brass, bronze, etc. shall be sorted by type, containerized or palletized as necessary, transport to an authorized recycling facility.
- M. Packaging and shipping materials
 - Cardboard boxes and containers: Breakdown all cardboard boxes and containers into flat sheets. Bundle
 and store in a dry location until transported for recycling.
 - 2. Pallets:
 - a. Whenever possible require deliveries using pallets to remove them from the project site.
 - Neatly stack pallets in preparation for reusing them or providing them to other companies for salvage or re-use.
 - c. Break down pallets into component wood pieces that comply with the requirements for recycling clean wood materials. Neatly stack or palletize pieces in preparation for transportation.
 - 3. Crates: Break down crates into component wood pieces that comply with the requirements for recycling clean wood materials. Neatly stack or palletize pieces in preparation for transportation.
 - 4. Polystyrene Packaging: Separate and bag materials.
- N. Piping and conduit: Reduce all piping and conduit to straight lengths, sort and store by size, material and type. Remove supports, hangers, valves, boxes, sprinkler heads, and other such components, sort and store by size, material and type. Transport to authorized recycling facilities according to material types.
- O. Roofing: Roofing materials shall be sorted and containerized by type, transport to authorized recycling facilities according to material types.
- P. Site-Clearing Waste: Sort all site waste by type.

1			1.	Only stockpile soils types and quantities required for re-use on the project site. All remaining quantities
2				shall be transported off site to an authorized facility that receives such materials.
3			2.	Brush, branches, and trees with no marketable re-use shall be transported to facilities for chipping into
4				mulch.
5			3.	Trees with a marketable re-use shall be salvaged and transported to facilities that specialize in processing
6 7				trees for future use as wood products.
8	3.3.	GUID	ELINES F	FOR DISPOSAL OF WASTES
9		A.	Any wa	aste that is contaminated, organic, or cannot be recycled, re-used, or salvaged shall be legally disposed of
10			in an a	uthorized landfill or incinerator. Disposal methods shall follow all applicable regulatory requirements.
11		В.	No was	ste material of any kind shall be allowed to be buried on the project site at any time.
12		C.	No bur	rning of any kind of waste material shall be permitted on this project site at any time.
13		D.	Paint a	and Stain: Paints, stains, and their containers shall be disposed of as follows:
14			1.	Whenever possible containers should be thoroughly cleaned immediately after emptying and sorted with
15				as appropriate (metal or plastic) for recycling
16			2.	Empty containers, regardless of type or base material, may be disposed of with lids off with general
17				garbage.
18			3.	Latex paint may be placed with general garbage if properly solidified as follows:
19				a. Small amounts (an inch or less in can): Remove lids and allow paint to dry out in the can and
20				harden. Protect cans from rain and freezing.
21				b. Large amounts (more than one inch): Mix paint with equal amounts of cat litter, stir and allow to
22				completely dry. Alternate method: mix with commercial paint hardener.
23			4.	Oil-based or combustible paints and stains, regardless of liquid or solid, shall be transported to an
24				approved facility that takes such items such as Dane County Clean Sweep Sites.
25		E.	Treate	d Wood Materials: Treated wood materials including but not limited to wood that has been painted,
26			stained	d, or chemically treated shall not be recycled or incinerated.
27				
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29				
30				END OF SECTION
31				

1	SECTION 01 76 00						
2				PROTECTING INSTALLED CONSTRUCTION			
3	DADT	-1 0	CNEDAL				
4 5		1.1.		ARY			
		1.2.		Y ASSURANCE 1			
6 7		1.2.		D SPECIFICATIONS			
8		_		D SPECIFICATIONS			
9							
9 10		2.1. 2.2.		G MATERIALS AND BARRICADES			
11		2.2.		OR FINISH PROTECTION MATERIALS			
12		-		N			
13		3.1.		AL EXECUTION REQUIREMENTS			
14		3.2.		CT ADJACENT PROPERTIES			
15		3.3.		CT LANDSCAPING FEATURES			
16		3.4.		CT UTILITIES			
17		3.5.		CT PUBLIC RIGHT OF WAY			
18		3.6.		CT STORED MATERIALS			
19		3.7.		CT WORK - EXTERIOR			
20		3.8.		CT WORK - INTERIOR			
21		J.0.	FROTEC	ST WORK - INTERIOR			
22	DΔR1	г 1 <i>– 6</i>	ENERAL				
23	IAN		LINEIVAL				
24	1.1.	SU	MMARY				
25		Α.		ourpose of this specification is to provide clear responsibilities, guide lines, and requirements related to			
26				iding protection to already installed construction.			
27		В.		dy installed construction shall include but not be limited to the following:			
28			1.	Any existing site feature such as pavement, curbs, drainage features, utilities, landscaping features (trees			
29				shrubbery, plantings, flagpoles, etc) and other such exterior items not associated with the building			
30				whether on or adjacent to the project site.			
31			2.	Any existing structure on or adjacent to the project site.			
32			3.	Any existing interior work that may be adjacent to the new work including all paths of ingress/egress to			
33				areas associated with accessing the Work.			
34			4.	Any existing feature of any kind within the public right-of-way that may be on the project site property,			
35				adjacent to the project site or across the street from the project site.			
36		C.	All co	ontractors shall be familiar with the specifications of their Division of Work for specific requirements on			
37			prote	ection of the Work.			
38		D.	The r	requirements noted within this specification do not relieve any contractor of the responsibility for			
39			comp	pliance with any code, statute, ordinance, or other such regulatory requirement having jurisdictional			
40			autho	ority over these contract documents.			
41							
42	1.2.	QU	ALITY AS	SURANCE			
43		A.		all be the responsibility of every contractor and worker assigned to the project to be diligent in protecting all			
44				ing work, and newly installed construction.			
45		В.	It sha	all be the General Contractors' (GC) responsibility under the contract to provide all reasonable protection			
46			meth	ods, materials, or precautionary measures required to protect new or existing construction as described in			
47			withi	n this specification to the project as a whole.			
48			1.	The GC shall be responsible to ensure any damaged new or existing construction is repaired or replaced			
49				at no additional cost to the Contract.			
50			2.	The GC at his/her discretion may direct other contractors to provide and maintain protection of			
51				completed work associated with their Division of Work. I.E.: The carpet installer may be required by the			
52				GC to provide carpet protection along traveled paths, ingress/egress, etc after installation.			
53		C.		all be the responsibility of the GC to ensure that all materials being used to protect installed construction are			
54				patible with, and/or adjacent to, the materials being protected. This shall include but not be limited to the			
55			mate	rial used as covering, tapes used to fasten protective materials, etc.			

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2	1.3.	RELA	TED SP	CIFICATIONS
3		A.	Parts	of this specification will reference articles within "The City of Madison Standard Specifications for Public
4			Work	Construction".
5			1.	Use the following link to access the Standard Specifications web page:
6				http://www.cityofmadison.com/business/pw/specs.cfm
7				a. Click on the "Part" chapter identified in the specification text. For example if the specification
8				says "Refer to City of Madison Standard Specification 2 10.2" click the link for Part II, the Part II
9				PDF will open.
10				b. Scroll through the index of Part II for specification 210.2 and click the text link which will take you
11				to the referenced text.
12				c. City Standard Detail Drawings (SDD) may be located from the index in Part VIII.
13		В.	Not l	
14		C.	Secti	n 01 74 13 Progress Cleaning
15 16	DADT	. 2 DD(ODUCTS	
10 17	FARI	2 - FN	ODUCIS	
18	2.1.	FENC		TERIALS AND BARRICADES
19		A.		where noted in other areas of the construction documents the responsible contractor may provide any of
20				lowing that sufficiently provide a sturdy physical barrier and/or visual barrier as necessary for the
21				ed application.
22			1.	Standard orange construction barrels each with a standard rubber base ring and reflective tape
23				a. Provide flashing amber lights as needed to increase night time visibility
24			2.	Steel "T" style fence posts
25			3.	4'0" high standard orange construction fence
26			4.	Traffic barricades
27			5.	Jersey barriers
28		_	6. - -	Other types of fencing or barricades typically used in the construction industry
29		В.		ontractor responsible for providing the fencing materials and barricades shall also be responsible for
30				aining them. This shall include but not limited to fixing damaged fencing, standing up barrels that have
31 32		C.		knocked over, realigning barrels, and ensuring flashing lights are fully operational at all times.
32 33		C.		llowing fencing and barricade designations, and their use descriptions shall be used throughout this cation to provide uniformity in describing protection requirements.
34			speci 1.	Type A, Jersey Barriers, to be used as permanent blocking devices to deny access to alternate project site
35			1.	entrances or exits.
36			2.	Type B, Traffic Barricades, to be used as temporary blocking devices to deny access to alternate project
30 37			۷.	site entrances or exits.
38			3.	Type C, Construction Barrels without construction fencing shall be used for lane closures, temporary
39			Э.	blocking devices to deny access and the protection of single locations (I.E. identify the location of an
40				access structure) that do not require fencing.
41			4.	Type D, Construction Barrels with construction fencing where it becomes necessary to surround an object
42				with a complete visual barricade and it is impractical or unacceptable to install fence posts. The surround
43				shall be constructed in such a manner as to provide a buffer zone around and access to the item being
44				protected.
45			5.	Type E, Steel "T" Fence Posts with construction fencing to surround an object with a complete visual
46				barricade and it is practical to install fence posts. The surround shall be constructed in such a manner as
47				to provide a buffer zone around and access to the item being protected.
48			6.	Type X, Other fencing or barricade types that may be designated and detailed within the construction
49				documents shall use additional alpha numeric designations.
50				•
51	2.2.	EROS	SION CC	NTROL PROTECTION
52		A.	Not l	sed.
53				
54	2.3.	INTE	RIOR FI	ISH PROTECTION MATERIALS

contractor:

Except where noted in other areas of the construction documents or this specification the responsible

Shall not provide the cheapest or least effective method as an effort to meet any protection requirement.

1 2 3 4 5 6 7 8		В.	 Shall provide materials of sufficient quality, and durability to provide adequate protection based on the seasonal conditions and the anticipated duration at the time the protection will be needed. Shall provide sufficient quantity of protection material to protect the construction as needed. Prior to installing protective measures the responsible contractor shall propose to the GC and City Project Manager (CPM) the proposed plan for protection, materials to be used and samples as necessary. The CPM reserves the right to disapprove any proposed method and/or material and/or make alternate proposals.
9	<u>PART</u>	3 - EXEC	CUTION
10 11	3.1.	GENEI	RAL EXECUTION REQUIREMENTS
12		A.	The GC shall be responsible for ensuring all of the following procedures and requirements are implemented as
13			needed for the duration of the Work performed under this contract.
14		В.	The GC shall also be responsible for the following:
15			1. Reporting any incident of damage to existing property, right-of-way, or utility to the CPM immediately
16			upon rendering the incident safe, and notifying emergency response teams, and emergency utility crews
17			as needed.
18			2. Conduct a site walk through prior to leaving at the end of each day to assess:
19			a. Protection measures are properly in place, provide correction actions as necessary.
20			b. Note damage to existing completed work and schedule repair/replacement as needed.
21			3. Ensure all contractors and workers are being diligent in protecting existing work, and newly installed
22			construction.
23			
24	3.2.		ECT ADJACENT PROPERTIES
25		A.	Not Used.
26	2.2	DDOT	FCT LANDSCADING FFATURES
27 28	3.3.		ECT LANDSCAPING FEATURES Not Used.
29		A.	Not oseu.
30	3.4.	DPOT	ECT UTILITIES
31	3.4.	A.	Not Used.
32		۸.	Not oscu.
33	3.5.	PROTI	ECT PUBLIC RIGHT OF WAY
34		Α.	Not Used.
35			
36	3.6.	PROTI	ECT STORED MATERIALS
37		A.	All contractors shall refer to Specification 01 60 00 Product Requirements for all storage and protection
38			requirements of building materials and products delivered to the site.
39			
40	3.7.	PROTI	ECT WORK - EXTERIOR
41		A.	Not Used.
42			
43	3.8.	PROTI	ECT WORK - INTERIOR
44		A.	The GC shall do all of the following:
45			1. Provide all temporary services that may be required to protect the installed material from heat, cold,
46			humidity, etc, while materials such as concrete, mortar, sealants, paints, etc, are drying and/or curing.
47			2. Provide adequate visual and/or physical protection as needed to protect newly completed interior work
48			such as paint, flooring material, sealants, grouts, etc that may be drying and/or curing.
49			3. Provide adequate space and materials for cleaning boots, tool boxes, supplies, and other items coming
50			into the project site once finish work has begun.
51		D	4. Clean soiled areas and repair/replace damaged areas immediately. The contractors responsible for interior work shall be responsible for protecting their work and finishes from dirt.
52 52		B.	The contractors responsible for interior work shall be responsible for protecting their work and finishes from dirt,
53 54			mud, snow, spills, splatters, and physical damage after installation as follows: 1. Protect vinyl composite, rubber composite, painted/stained concrete, and tiled flooring as follows:
54 55			 Protect vinyl composite, rubber composite, painted/stained concrete, and tiled flooring as follows: a. Define foot traffic areas and protect with Ramboard Temporary Floor Protection products as a
56			minimum basis of design or other protection product(s) compatible with installed flooring product
57			if Ramboard is not compatible. Products to be used shall be new.
٠,			in numbered to not compatible. I reduces to be used shall be new.

1		i. Tape all edges, seams, etc with a good quality tape that does not leave sticky residue. D
2		not allow any debris or other material between the installed flooring and the protection
3		material.
4		ii. Repair tears immediately, replace worn areas with like material as necessary.
5		2. Protect carpeted areas as follows:
6		a. Define foot traffic areas and protect with a minimum of 6mil, clear, polyethylene sheeting 3 fee
7		wide. Products to be used shall be new.
8		 Tape all edges, seams, etc with a good quality tape that does not leave sticky residue. D
9		not allow any debris or other material between the installed flooring and the protection
10		material.
11		 Repair tears immediately, replace worn areas with like materials as necessary.
12		3. Protect all finished walls in high traffic areas with Ramboard Temporary Wall protection products or
13		approved equal.
14		 Tape all edges, seams, etc with a good quality tape that does not leave sticky residue. D
15		not allow any debris or other material between the installed flooring and the protection
16		material.
17		 Repair tears immediately, replace worn areas with like materials as necessary.
18		3. Protect counter tops, cabinets, and other finished surfaces with large sheets of thick cardboard or
19		Ramboard products. Do not allow toolboxes, finish materials, parts and other such items to be placed
20		finished materials.
21	C.	All protection shall stay in place until the CPM and GC mutually deem the project is ready for Final Cleaning. T
22		contractors responsible for protecting the work shall be responsible for removing the protection and removing
23		any adhesive residue at that time. Contractors shall only use manufacturer authorized cleaning materials for
24		removing adhesives, etc.
25	D.	Contractors doing work in un-protected areas of finished work shall be required to provide drop cloths and other
26		protection as noted within this specification for the duration of their work.
27		1. Finished areas shall be sufficiently covered to accommodate all equipment, and materials being used to
28		complete the work being done.
29		2. Finished areas shall be sufficiently covered to prevent splatters, over spray, etc when doing touch-up
30		work.
31		3. Contractors who do not provide sufficient protection under this sub-section shall be responsible for an
32		costs associated with cleaning, repairing or replacing already finished construction at no additional cos
33		to the contract.
34		
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36		
37		END OF SECTION
38		

				SECTION 01 77 00 CLOSEOUT PROCEDURES
PART '	1 – G	FNFRAI		
	.1.			
	.2.			NS
	.3.			
1	.4.	QUALITY	/ ASSURANCE –	- CONSTUCTION CLOSEOUT
1	.5.			- CONTRACT CLOSEOUT
PART 2	2 – P			N NOT USED
PART 3	3 - E>	KECUTION		
3	.1.	CONSTR	UCTION CLOSE	OUT CHECKLIST
3	.2.	CONSTR	UCTION CLOSE	OUT REQUIREMENTS
3	.3.	CONSTR	UCTION CLOSE	OUT PROCEDURE
3	.4.	CONTRA	CT CLOSEOUT	REQUIREMENTS
3	.5.	CONTRA	CT CLOSEOUT	PROCEDURE
PART :	1 – G	ENERAL		
1.1.		MMARY	urnoso of this s	specification is to clearly define and quantify the requirements associated with closing a Cit
	A.	of Ma	dison Public W	orks Contract for facility related work.
	В.		ntracts have tw se the contract	o distinct but related paths. Each path needs to be properly closed independently in order as a whole.
		1.	Construction	closeout is related to closing out all of the Work associated with the construction
			documents.	
				Il be the responsibility of all contractors to be fully aware of the required Work and closeou rements involved in their individual trades.
		2.		eout is related to closing out all of the administrative aspects of the contract in general.
		۷.		Il be the responsibility of all contractors to be fully aware of the administrative requiremen
		2	requir	red by the contract and to provide the supporting documentation required.
	_	3.		Closeout must be completed before Contract Closeout can begin.
	C.	1 nis s		Il provide general knowledge associated with the following areas:
		1. 2.		Closeout Requirements Closeout Procedure
		3.		seout Requirements
		3. 4.		seout Requirements
		4. 5.		at and Certificate of Completion
		Э.	i iliai rayilleli	it and certificate of completion
1.2.	REL		CIFICATIONS	
	A.			riew all references to other specifications including specifications relating to the execution
	_			with their Division or Trade.
	В.	Not U		
	C.	Not U		December Classics
	D.		on 01 74 13	Progress Cleaning
	Ε.		on 01 45 16	Construction Waste Management and Disposal
	F. G.		on 01 76 00 on 01 78 23	Protecting Installed Construction Operation and Maintenance Data
	Н.		on 01 78 36	Warranties
	11. 1.	Not U		waitaities
	J.	Not U		
	к.			as noted in the contract documents signed by the General Contractor
1.3.	DEF	FINITIONS		
	A.			nce: A letter provided to the City of Madison Building Inspection and signed by the CPM
				ork has been completed to a level that would allow Owner Occupancy and that all
				mpliance with the construction documents. This letter does not represent construction
		closed	THE	

STANDARD SPECIFICATION 6/5/20 В. 1 Certificate of Occupancy: The Regulatory letter from the City of Madison Building Inspection Department 2 indicating that all regulatory requirements and inspections have been completed and the building may now be 3 occupied for its intended use. This letter does not represent construction closeout. 4 C. Certificate of Substantial Completion: A letter provided by the Department of Public Works, signed by the City 5 Engineer indicating that Construction activities are substantially complete. This letter does represent construction closeout and the date of this letter begins the date of the Warranty Period. 6 D. 7 Construction Closeout: The point in the contract where all contractual requirements associated the execution of 8 the Work as described in the plans, specifications, and other documents have been successfully met and the 9 items described in 1.3.A, .B, and .C above have been completed. 10 E. Final Progress Payment: The progress payment associated with achieving Construction closeout as described in 11 1.3.D above. At this point the contractor may request all monies associated with the contract be paid with the exception of held retainage. 12 13 F. Contract Closeout: The point in the contract where all contractual requirements associated with the City of 14 Madison, Board of Public Works contract has been successfully met. 15 G. Final Payment: The final contract payment submittal that may be approved by the City of Madison after all 16 contractual requirements of the Public Works Contract have been met and any remaining monies (retainage) 17 due to the contractor may be released for the Final Payment. 18 19 1.4. **QUALITY ASSURANCE – CONSTRUCTION CLOSEOUT** 20 All contractors shall be responsible for properly executing the construction closeout requirements associated A. 21 with their Work as described in the specifications governing their Work. 22 В. The GC shall be responsible for all of the following: 23 1. Ensuring that all contractors have met the construction closeout requirements associated with their 24 Work. 25 2. Coordinate the collection of all construction closeout deliverables from all contractors, provide the 26 deliverables to the City Project Manager for review as necessary, and ensure all contractors correct 27 deficiencies of deliverables and resubmit as needed for final acceptance. 28 3. Ensure all closeout requirements identified in the Construction Closeout Checklist below have been 29 completed as intended by the construction documents. 30 31

1.5. **QUALITY ASSURANCE - CONTRACT CLOSEOUT**

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- 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 City of Madison Public Works (PW) projects. DCR will monitor all PW projects from contract award through the final payment at the close of the project. Contractors will be required to submit reporting paperwork throughout the PW project process.
 - Contractors are encouraged to visit the web site identified below for additional information, checklists, forms, and other information provided by DCR as it relates to Contract Compliance.

http://www.cityofmadison.com/Business/PW/contractCompliance.cfm

2. Questions regarding the process should be directed to parties and offices as identified on the various forms, documents, and instructions or contact:

> City of Madison, Department of Civil Rights 210 Martin Luther King Jr. Blvd., Room 523 Madison, WI 53703 (608) 266-4910

- В. All Sub-Contractors have submitted the applicable required documents described in item 1.5.D below to the General Contractor (GC) for Contract Closeout.
- C. The GC has submitted the required applicable documents described in item 1.5.D below for all contractors to the appropriate City of Madison Agency per instructions associated with each submittal.
- D. The documents required for submittal to the City of Madison for Contract Closeout may include any/all of the items listed below depending on contract type. It is the sole responsibility of all contractors to know and submit the required and complete documentation in a timely fashion.
 - 1. Weekly Payroll Reports
 - 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. Documentation required for Small Business Enterprise (SBE) goals
 - Other documents as maybe required or requested through the Finalization Review Process

1 2	PART	2 – PRO	DUCTS	S – THIS SECTION NOT USED			
3 4	PART	3 - EXECUTION					
5 6	3.1.	CONST	TRUCTI	ON CLOSEOUT CHECKLIST			
7	3.1.	A.		ntractors shall be responsible for reviewing the drawings and specifications within their Divisions of Work			
8				ovide a complete and comprehensive list of all Construction Closeout Requirements to the GC.			
9			1.	The checklist shall include all items identified within the construction documents that require any of the			
10				following (and examples) prior to moving into Contract Closeout Procedures:			
11				a. Documents indicating a specified level of performance has been achieved, such as:			
12				i. Test reports of all types			
13				ii. Not Used.			
14				b. Required documentation, such as:			
15				i. As-builts and record drawings			
16				ii. Operation and maintenance data			
17				c. Physical items to be turned over to the owner, such as:			
18				i. Attic stock			
19				ii. Not Used			
20				d. Required maintenance completed, such as:			
21				i. Not Used			
22				ii. Not Used			
23				e. Owner and Maintenance Training			
24		B.	Each l	ist shall indicate the title of the closeout requirement, the associated specification of the requirement, the			
25			requir	red result or deliverable, the responsible contractor(s), and a column to verify the item has been turned in			
26			and co	ompleted.			
27		C.	The G	C shall be responsible for all of the following:			
28			1.	Consolidating all the closeout lists into one master Construction Closeout Checklist.			
29				a. The checklist shall be in a tabular data format similar to the sample below			
30			2.	Resubmit the checklist as needed after initial reviews have been completed.			
31		D.	Not U				
32	3.2.	CONS		ON CLOSEOUT REQUIREMENTS			
33		A.		oseout payments shall be made until all requirements for that payment have been met.			
34			1.	The GC and all major Subcontractors, PE, and CPM, shall review all requirements for			
35				Construction/Contract Closeout.			
36				a. Not Used			
37			_	b. Not Used			
38			2.	The GC, PE, and CPM, shall utilize the Construction Closeout checklist to ensure that all construction			
39				closeout requirements have been met.			
40	2.2	CONC	TDLICTI	ON CLOSFOLIT PROCEDURE			
41	3.3.			ON CLOSEOUT PROCEDURE			
42		A.		successful completion and final acceptance of all Construction Closeout Requirements the GC may submit			
43		D		PCPM and PE the request for Final Progress Payment (100% contract total, less retainage). E will confirm with the design consultants, CPM, and other City of Madison staff that all requirements of			
44 45		В.		ork have been completed and will do the following:			
46			1.	Approve the final progress payment application			
47			2.	Provide the required signed payment documents to the CPM			
48			3.	Provide the required Letter of Substantial Compliance to the following as required:			
49			5.	a. Not Used			
50				b. Local Building Inspection office			
51				c. GC			
52				d. CPM			
53		C.	The C	PM shall draft the City Letter of Substantial Completion for signature by the City Engineer. This letter shall			
54				any of the following that may still be tied to the contract and/or warranty:			
55			1.	Indicate that the date of the letter shall also be the beginning of the Warranty period.			
56			2.	Indicate any allowed due outs, reasons for them, and anticipated dates of finalization.			

58

D.

on the City Letter of Substantial Completion, and provide the CPM with all warranties as described in

The GC and all subcontractors shall finalize all warranty letters associated with their Work using the date noted

1			Specification 01 78 36 Warranties. Upon receipt and final approval of the Warranties the CPM may initiate final							
2			processing of the Final Progress Payment (100% contract total, less retainage).							
3										
4	3.4.	CONT	CONTRACT CLOSEOUT REQUIREMENTS							
5		A.	The GC and all sub-contractors shall follow all requirements associated with documenting contract compliance							
6 7			and provide documentation as required or requested by DCR or PW staff. All contractors are encouraged to stay current with submissions of the following documentation:							
8			1. Weekly Payroll Reports no later than the Progress Payment equal to 50% of the contract total.							
9			2. Employee Utilization Reports							
10			3. Agent or Subcontractor Affidavit of Compliance with Prevailing Wage Rate Determination							
11			4. Prime Contractor Affidavit of Compliance with Prevailing Wage Rate Determination							
12			5. Documentation required for Small Business Enterprise (SBE) goals							
13			6. Other documents as maybe required or requested through the Finalization Review Process							
14		B.	Not Used							
15										
16	3.5.	CONT	RACT CLOSEOUT PROCEDURE							
17		A.	The Contract Closeout Procedure will not begin until the Construction Closeout Procedure has been completed.							
18		В.	When the GC feels he/she has successfully met all of the Contract Closeout Requirements associated with							
19			Section 3.3 above the GC may submit to the request for Final Payment to the CPM.							
20		C.	The CPM shall sign and submit the Final Payment request for processing.							
21		D.	DCR and PW staff shall do a complete review of all documentation associated with item 3.3.A above.							
22		E.	The GC shall be notified directly by DCR or PW Staff of any documentation that may still be missing, have							
23			incomplete information, or other outstanding issues. It shall be the responsibility of the GC to continue follow-							
24			up with DCR and PW staff until all documentation has been successfully submitted and accepted.							
25		F.	When all required documentation associated with Contract Closeout has been successfully submitted and							
26			accepted by DCR and PW Staff the City of Madison shall process the Final Payment of any remaining monies							
27			including retainage.							
28										
29										
30			END OF SECTION							
31										

		SECTION 01 78 23
		OPERATION AND MAINTENANCE DATA
PART 1 -	- GEN	ERAL
1.1	. S	UMMARY
1.2	. R	ELATED SPECIFICATIONS- THIS SECTION NOT USED
1.3		UALITY ASSURANCE
1.4		0&M DATA REQUIREMENTS
1.5		D&M DATA SUBMITTALS
		DUCTS – THIS SECTION NOT USED
	_	CUTION
3.1		08M DATA PREPARATION - GENERAL
3.2		D&M DATA DRAFT SUBMITTAL-THIS SECTION NOT USED
3.3		0&M DATA FINAL SUBMITTAL-THIS SECTION NOT USED
3.3		ONSTRUCTION CLOSEOUT-THIS SECTION NOT USED
<u>PART 1 -</u>	– GEN	<u>IERAL</u>
1.1. 9	SUMN	MARY
A	Α.	The purpose of this specification is to provide clear responsibilities and guide lines related to providing well documented and complete Operation and Maintenance (O&M) Data related to general facility use, equipment, systems, finishes, and materials to City of Madison Staff (Owner, Owner Representatives, Maintenance, and Custodial Personnel) as needed.
E	3.	For primary roofing projects Operation and Maintenance Data shall consist to both of the following categories: 1. Operation and Maintenance Data: Generally shall mean the owner manual that provides information on start-up, shut-down, operation, troubleshooting, maintenance, parts, and other such documentation as i pertains to all equipment and systems installed under the Work.
		 Use and Care instructions: Where applicable use and care instructions shall also be considered O&M for such things as flooring, tile, partitions, and other such finishes and trim related items, installed under the Work.
1.2. F	RELAT	ED SPECIFICATIONS- THIS SECTION NOT USED
1.3. (OUAL	ITY ASSURANCE
_	4.	All O&M Data shall meet the requirements identified in Section 1.4 below.
	3.	All contractors shall provide O&M Data for each piece of equipment, system, or finish installed during the installation of the Work. O&M Data shall be provided to the General Contractor (GC) for verification and submittal.
(C.	The GC shall be responsible for receiving all required O&M Data files from all contractors for verifying that all
	٠.	files submitted meet the requirements in Section 1.4 below.
1.4. (о&м	DATA REQUIREMENTS
A	۹.	O&M Data shall be provided in digital PDF format as follows:
		1. PDF files shall be complete first generation consumer useable editions of PDF documents as provided by
		any of the following:
		a. Product manufacturer
		b. Supplier of product
		c. Product manufacturer internet site
		Acceptable PDF files shall have the following functionality:
		a. Word searchable
		b. Key areas are bookmarked
		c. Table of Contents and/or Index linked to content is preferred whenever possible.
		 Scanned printed material, with word searchable capabilities, saved as a PDF, is not acceptable and will be
		rejected without further review.
F	3.	O&M Data shall include but not be limited to the following manufacturers' published information as appropriate
	٠.	for the equipment, system, material, or finish:
		1. Product Data Sheets for all materials used and other specialty products as applicable.
		2. Shop drawings
		2. Shop arawings

1			3. Not Used
2			4. General use, care, and cleaning instructions
3			5. Not Used
4			6. A list of certified vendors, service companies, parts suppliers including company name, address, and
5			phone number
6			7. Not Used
7			
8	1.5.	0&N	DATA SUBMITTALS
9		A.	O&M Data shall be prepared as identified in this specification.
10		В.	O&M Data Draft submittals will be reviewed for content, procedure, and compliance only. A general critique
11			with recommendations for improvement will be made but re-submittals will not be required.
12		C.	O&M Data Final submittals will be reviewed for content, procedure, and compliance. Re-submittals will be
13			required until such time as each submittal is accepted.
14			
15	PART	2 – PR	DDUCTS – THIS SECTION NOT USED
16			
17	PART	3 - EXI	<u>CUTION</u>
18			
19	3.1.	0&N	DATA PREPARATION - GENERAL
20		A.	All contractors shall prepare O&M Data for draft and final submission as follows:
21			1. Obtain digital PDF files for each piece of equipment, system, material or finish as described in Sections
22			1.4.A.1 and 1.4.A.2 above.
23			2. Verify that all information as described in Section 1.4.B above is included with the PDF file. Obtain
24			missing information as necessary for a complete submittal.
25		В.	Submit the Draft copy of O&M Data in a single PDF file. City Project Manager, and Owner Representatives shall
26			review the O&M Data submittals within fifteen (15) working days. The GC shall make any noted revisions to the
27			O&M file and resubmit within fifteen (15) working days.
28		C.	The GC shall submit the completed digital PDF files to the City Project Manager prior to final Payment.
29			, , , , , , , , , , , , , , , , , , ,
30			
31	3.2.	0&1	DATA DRAFT SUBMITTAL-THIS SECTION NOT USED
32	· · - ·		
33	3.3.	081	DATA FINAL SUBMITTAL-THIS SECTION NOT USED
34	3.3.	Odi	DATA TRIAL SOURCE TALE TRIB SECTION NOT USED
35	3.3.	CON	STRUCTION CLOSEOUT-THIS SECTION NOT USED
36	3.3.	CON	AND CONTROL OF THE SECTION NOT OSES
37			
38			END OF SECTION
00 00			END OF SECTION

		SECTION 01 78 36 WARRANTIES
PA	NDT 1 _ C	ENERAL
r A	1.1.	SUMMARY
	1.2.	RELATED SPECIFICATIONS
	1.3.	DEFINITIONS
	1.3. 1.4.	GENERAL CONTRACTORS RESPONSIBILITIES
		RODUCTS - THIS SECTION NOT USED
		KECUTION
r A	3.1.	WARRANTY CHECKLIST
	3.1.	LETTERS OF WARRANTY
	3.2. 3.3.	STANDARD PRODUCT WARRANTY
	3.4.	FINAL WARRANTY SUBMITTAL
	3.4. 3.5.	WARRANTY NOTIFICATION, RESPONSE, EXECUTION AND FOLLOW-UP
	3.5.	WARRANTY NOTIFICATION, RESPONSE, EXECUTION AND FOLLOW-UP
<u>PA</u>	ART 1 – G	<u>ENERAL</u>
1.3	1. SU	MMARY
	A.	The purpose of this specification is to provide clear responsibilities and guide lines related to providing all
		Warranties and Guarantees related to the Work, workmanship, materials, equipment, and other such items
		required by the Construction Documents.
	В.	Manufacturers' disclaimers and limitations on product warranties do not relieve any contractor of the warranty
		on the Work that includes the product.
	C.	Manufacturers' disclaimers and limitations on product warranties do not relieve suppliers, manufacturers and
		any contractor required to provide special warranties under the contract documents.
1.2	2. REI	ATED SPECIFICATIONS
	A.	Section 01 78 23 Operation and Maintenance Data
	В.	Other Divisions and Specifications that may address more specifically the requirements for Warranties related to the installation of all items and equipment installed under the execution of the Work.
1.3	3. DEI	FINITIONS
	Α.	Emergency Repair: The Owner or Owner Representative reserves the right to make emergency repairs as
		required to keep equipment or materials in operation or to prevent damage to property and injury to persons
		without voiding the contractors warranty or bond or relieving the contractor of his/her responsibilities during
		the warranty period.
	В.	Installer: The company or contractor hired to install a finished product that was manufactured and supplied
	υ.	specifically for the Work within this contract. The Installer may or may not be the same company that supplied
		the product. See the definition for supplier.
	C.	Supplier: Any company that makes a specific finished product for the Work from information within the Contraction
	C.	Documents. Examples of suppliers would include custom cabinets, steel stairs and railings, etc. A supplier would
		not be a company that distributes items manufactured by others such as an electrical or plumbing supplier.
	D.	Warranty: A written guarantee from the manufacturer to the owner on the integrity of a product and its
	υ.	installation, and the manufacturers' responsibility to repair or replace the defective product or components
		within a specified time from the date of ownership. Warranty may also be used interchangeably with
		Guarantee. The following warranty types may be part of any specification within the Work associated with the
		Construction Documents: 1. Expressed Warranty: A warranty that provides specific repair or replacement for covered components o
		a product over a specified length of time.
		2. Implied Warranty: A warranty that is not stated explicitly by a seller or manufacturer that the product is
		merchantable and fit for the intended purpose.
		3. Standard Product Warranty: Preprinted written warranties published by individual manufacturers for
		particular products and are specifically endorsed by the manufacturer to the Owner. Standard warrantie
		may be for any amount of time but shall not be for anything less than one (1) year from the warranty
		date.
		4. Special Warranty: A written warranty required by the Contract Documents either to extend the time
		limit provided under a standard warranty or to provide greater rights to the Owner.

- STANDARD SPECIFICATION 6/5/20 F. 1 Warranty Date: The effective date that begins all warranty periods required for products, installations, and 2 workmanship associated with the execution of the Work for this contract. The Warranty Date shall be set by the 3 4 G. Related Damages and Losses: When correcting failed or damaged Warranted Work, remove and reinstall (or 5 replace if necessary) the construction that has been damaged as a result of the failure or the construction that must be removed and replaced to obtain access for the correction of Warranted Work. 6 Н. 7 Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected reinstate the 8 warranty by a new written endorsement. The reinstated warranty shall be equal to the original warranty with an 9 equitable adjustment for depreciation unless specifically noted otherwise in a specification. 10 I. Replacement Cost: All costs that may be associated with Work being replaced under warranty including but not 11 limited to the following: Related damages and losses 12 1. 13 2. Labor, material and equipment 14 3. Permits and inspection fees This shall be regardless of any benefit the Owner may have had from the Work through any portion of its 15 4. 16 anticipated useful service life. 17 J. Replacement Work: All materials, products, required labor, and equipment necessary to replace failed or 18 damaged warranted to an acceptable condition that complies with the requirements of the original Construction 19 Documents. 20 K. Owners Recourse: Expressed warranties made to the Owner are in addition to implied warranties and shall not 21 limit the duties, obligations, rights, and remedies otherwise available under the law. Expressed warranty periods 22 shall not be interpreted as limitations on the time in which the Owner can enforce such other duties, obligations, 23 rights, and remedies. 24 1. Rejection of Warranties: The Owner reserves the right to reject any warranty and to limit the selection of 25 products with warranties not in conflict with the requirements of the contract documents. 26 2. Not Used. 27 28 1.4. **GENERAL CONTRACTORS RESPONSIBILITIES** 29 A. The General Contractor (GC) shall be responsible to remedy, at his/her expense, any defect in the Work and any 30 damage to City owned or controlled real or personal property when the damage is a result of: 31 The GC's failure to conform to Contract Document requirements. 32 Any substitutions not properly approved and authorized may be considered defective. 33 Any defect in workmanship, materials, equipment, or design furnished by the GC or Sub-contractors. 34 В. All warranties as described in this specification and these Contract Documents shall take effect on the date 35 established by the CPM, as noted in Section 1.3F above. 36 All warranties shall remain in effect for one (1) year thereafter unless specifically stated otherwise in the 37 Contract Documents or where standard manufacturer warranties are greater. 38 C. The GC's warranty with respect to Work repaired or replaced, including restored or replaced Work due to 39 damage, will run for one (1) year from the date of Owner Acceptance of said repair or replacement. 40 This shall be regardless of any benefit the Owner may have had from the Work through any portion of its
 - anticipated useful service life. D. Warranty Response
 - See Section 3.5 of this specification.

PART 2 - PRODUCTS - THIS SECTION NOT USED

PART 3 - EXECUTION

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WARRANTY CHECKLIST 3.1.

Not Used A.

3.2. LETTERS OF WARRANTY

- All letters of warranty shall be in a typed letter format and provide the following information:
 - 1. The letter shall be on official company stationary including company name, address, and phone number.
 - 2. Indicate project name, contract number, and contract address the warranty is for on the reference line.
 - 3. Provide a description of the warranty(ies) being provided.
 - Include Division, Trade, or Specification information as necessary.
 - b. Only combine warranties of related Divisional Work together. Create new letters for additional Divisions as necessary.

1			4.	Indicate the effective Warranty Date. As noted in Section1.3.F above, the Warranty Date shall be the
2				date the Certificate of Substantial Completion was signed by the City Engineer.
3			5.	Contractor Letters of Warranty shall only be signed by a principal officer of the company.
4			6.	After signing the letter provide the GC with a high quality color scanned image in PDF format and the
5				original signed letter.
6		B.	The G	C shall be responsible for the Final Warranty submittal as identified in Section 3.4 below.
7		C.		C shall obtain letters of warranty from all of the following:
8			1.	The General Contractor shall provide warranty letters for all Work that was self-performed under the
9				contract documents, identify all trades or Divisions of Work.
10			2.	All Sub-contractors shall provide warranty letters for Work performed under the contract documents;
11				identify all trades or Divisions of Work.
12			3.	Suppliers, as required by other specifications within the Construction Documents where the manufacture
13				of a specific product unique to the Work of this contract was required.
14				a. The terms and conditions of the Supplier Letter of Warranty shall be as defined by the
15				specifications associated with the Work but shall not be less than the industry standard of repair,
16				or replace defective materials and workmanship within one (1) year of the warranty date.
17				b. When the supplier is also the installer a single written letter may be submitted identifying both
18				the warranty for the manufacture of the product and the warranty for the installation of the
19				product.
20			4.	Installers as required by other specifications within the Construction Documents where the installation of
21				a specific product unique to the Work of this contract was required.
22				The terms and conditions of the Installer Letter of Warranty shall be as defined by the
23				specifications associated with the Work but shall not be less than the industry standard of repair,
24				or replace defective materials and workmanship associated with the installation of the product
25				within one (1) year of the warranty date.
26			5.	Special Letters of Warranty shall be required from any contractor, supplier, installer or manufacturer who
27			٥.	agrees to provide warranty services required by any Division Specification in excess of their Standard
28				Product Warranty.
29				Trouble Truituity.
30	3.3.	STAN	IDARD P	PRODUCT WARRANTY
31		A.	All co	ntractors shall be responsible for collecting and providing copies of all standard product warranties for
32			comm	nercially available products purchased and installed under this contract.
33		В.	Only	one copy of the manufacturers' standard warranty needs to be submitted as representative for all
34			quant	tities of the same model number used throughout the Work.
35		C.	Provid	de the manufacturers certificate, letter, or other standard documentation for each Standard Product
36			Warra	anty submitted as follows:
37			1.	Whenever possible a PDF version of the document shall be used.
38				a. If a PDF version is used all additional information shall be completed using simple PDF editing
39				tools such as text boxes, highlight, etc.
40				b. If a PDF version is not available and an original document is furnished the additional information
41				shall be neatly hand written and highlighted on the document in such a fashion so that it does not
42				obscure any part of the written warranty.
43			2.	Provide the following additional information on each warranty document:
14				a. Contract warranty date.
45				b. Provide the manufacturer name and model number of the product if not specified within the
46				warranty.
47				i. Where the manufacturer name and model number is specified within the warranty it shall
48				be highlighted for visibility.
19				c. Provide the plan identifier (LAV-1, WC-2, etc.) when applicable.
50		D.	Each (completed warranty shall be saved as a digital PDF. The file shall be named using the specification number
51				tem description. I.E. 22 42 00 Toilet (WC-1).pdf
52			uu. 10	a. Where an original certificate was furnished provide a high quality colored scan of the completed
53				document with the additional information. Save the scanned image in PDF format and use the
54				same naming convention as indicated above.
- •				

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E.

Provide all PDF files and any original documents to the GC for final consolidation to be provided to the Owner.

1	3.4.	FINA	WARRANTY SUBMITTAL				
2		A.	The GC shall receive all required warranties (digital PDF and any original documents) from all contractors,				
3			suppliers, installers and manufacturers.				
4		В.	The GC shall inventory all received warranties with the Warranty Submittal List to ensure all required warranties				
5			have been received and all warranty periods are correct according to the specifications.				
6		C.	Provide with each Operation and Maintenance Manual a complete copy of any associated warranty.				
7		D.	Scan all warranties into a single organized electronic PDF file as follows:				
8			1. Organize the PDF file into an orderly sequence based on the table of contents of the Specifications.				
9			Provide a typed Table of Contents for the entire file at the front of the document.				
10			3. Provide bookmarks and links to each individual PDF to enable quick navigation through the PDF				
11			document.				
12		E.	Submit electronically, the warranty submittal for review by the PE and CPM.				
13		F.	Correct any deficiencies or omissions and resubmit as necessary.				
14							
15	3.5.	WAR	RRANTY NOTIFICATION, RESPONSE, EXECUTION AND FOLLOW-UP				
16		A.	Not Applicable.				
17							
18							
19							
20			END OF SECTION				
21							

1			SECTION 09 83 16	
2 3			ACOUSTICAL PLASTER SYSTEMS	
4	PΔRT	1 – GF	NERAL	1
5		.1.	SCOPE	
6	_		RELATED REFERENCES	
7		3.	SUBMITTALS	
8		4.	QUALITY ASSURANCE	
9		5.	DELIVERY, STORAGE AND HANDLING	
10	1	.6.	ATTIC STOCK	
11	1	7.	GUARANTEE	2
12	PART	2 - PR(ODUCTS	2
13		2.1.	MANUFACTURERS	
14	2	2.2.	APPLICATION EQUIPMENT	2
15	2	2.3.	COLORS	2
16	PART	3 - EXE	ECUTION	2
17	3	3.1.	EXAMINATION	2
18	3	3.2.	PREPARATION OF SURFACES	2
19	3	3.3.	APPLICATION	3
20	3	3.4.	CLEANING	3
21				
22	PART	1 – GE	<u>ENERAL</u>	
23				
24	1.1.	SCO		
25		A.	Where drawings call for Acoustical Plaster System, provide Acoustical Plaster Systems as specified herein.	
26		В.	The Acoustical Plaster System is a complete manufactured system. Components of the system include a	
27			prefabricated and pre-coated mineral wool, glass fiber, or similar sound absorbing panel which are pre-coated	in
28			the factory. The pre-coated sound absorbing panels are adhered to the substrate with an adhesive. A sound	
29			absorbing seamless plaster base coat and finish coat are thereafter applied onto the panels on site, then hand	
30			troweled smooth, to give the appearance of a conventional smooth plaster surface. All components, including	
31			the vinyl trims, are supplied by the manufacturer.	
32		C.	The Acoustical Plaster System shall be 25mm or greater thickness. The minimum Noise Reduction Coefficient	
33			shall be .80 NRC.	
34		D.	Remove all existing light fixtures, electrical devices, mechanical grilles, and similar items. Extend existing devices	5
35			backboxes and ductwork to the appropriate depth relative to the thickness of the Acoustical Plaster System.	
36			Install proper blocking or other attachment system. Blocking or other attachment details shall be approved by	
37			the Acoustical Plaster System manufacturer. Replace all existing light fixtures, electrical devices, mechanical	
38			grilles, and similar items after completion of work.	
39	4.3	DEL /	ATER DEFENSES	
40	1.2.		ATED REFERENCES	
41		A.	Work under this section depends on applicable provisions from other sections and the plan set in this contract.	•
42	1.2	CLID	MITTALC	
43	1.3.		MITTALS Product data: Submit manufacturer's technical information.	
44 4E		Α.		
45 46		В. С.	Samples: Provide two samples of the selected finished product on sound absorbing panels. Acoustical Performance Data: Provide acoustical performance sound absorption test report data for the	
47		C.	Acoustical Plaster System. Include a sound absorption coefficient report based on ASTM C423-09A or similar fo	r
48			measurement of sound absorption by the reverberation room method.	/1
49		D.	Submit shop drawings with the Acoustical Plaster System plan, section, and trim details. Include blocking detail	lc
50		υ.	or other attachment details to extend existing fixtures and device backboxes and ductwork to the appropriate	
51			depth relative to the Acoustical Plaster System.	
52			departed and to the Accounted in March System.	
53	1.4.	OHA	ALITY ASSURANCE	
54	±. 7 .	A.	Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum	
55		,	three years documented experience.	
56		В.	Training and Certification: Installation contractors shall be trained and certified by the Acoustical Plaster System	n
57			manufacturer.	••
58		C.	Provide adequate temporary lighting as needed during installation.	

1	D.	Comply with manufacturer's plaster application standards and recommendations for environmental conditions
2		before, during, and after installation.
3	D.	Maintain room temperatures to meet the Acoustical Plaster System manufacturer's air temperature

 Maintain room temperatures to meet the Acoustical Plaster System manufacturer's air temperature requirements during installation.

E. Ventilate building spaces as required to remove excess moisture to promote drying of the applied materials.

1.5. DELIVERY, STORAGE AND HANDLING

- A. Ship and deliver materials in protective packaging to prevent freight damage.
- B. Store materials in accordance with manufacturer's recommendations in an enclosed space where materials will be protected against damage from moisture, surface contamination, and other causes.
- C. Allow materials to become acclimated to building conditions before installation.

1.6. ATTIC STOCK

A. Provide touch-up plaster.

1.7. GUARANTEE

- A. Workmanship and materials in this section shall be guaranteed to be free from defects for a period of one (1) year from date of final completion of project.
- B. Any defects, not due to or caused by faulty construction or material furnished or performed by other crafts, but due to defective materials and workmanship in installation and finishing, shall be repaired and corrected by the Contractor without cost to the Owner.

2.1. MANUFACTURERS

PART 2 - PRODUCTS

- A. BASWA Phon, Classic Fine Finish, 30mm
- B. Fellert, Even Better Sahara Finish, 25mm
- C. Fade, Plus+ Finish, 25mm

2.2. APPLICATION EQUIPMENT

- A. Use only such equipment as is recommended for installation and application by the Acoustical Plaster System manufacturer.
- B. Include all required ladders, scaffolding, drop clothes, masking, scrapers, tools, dusters, cleaning solvents, and waste, as required to perform the work.

2.3. COLORS

A. Color shall be "White" to be based on manufacturer's standard color selection. Submit color samples to Owner for approval.

PART 3 - EXECUTION

3.1. EXAMINATION

- A. Verify that surfaces are ready to receive work as instructed by the Acoustical Plaster System manufacturer.
- B. Before starting work carefully examine surfaces to receive the Acoustical Plaster System for defects. Correct any defects that may be detrimental to the proper completion of work. Do no proceed until unsatisfactory conditions have been corrected. The commencing of work in a specific area shall be construed as acceptance of the surfaces, and thereafter the Acoustical Plaster System contractor shall be fully responsible for satisfactory work as required herein.
- C. Verify that all mechanical and electrical devices within the area of application have been roughed-in at the appropriate depth relative to the thickness of the Acoustical Plaster System and tested prior to proceeding with application.

3.2. PREPARATION OF SURFACES

- A. Remove hardware, accessories, device plates, lighting fixtures, factory finished work and similar items. Upon completion of each space, carefully replace all removed items.
- B. Remove all existing light fixtures, electrical devices, mechanical grilles, and similar items. Extend existing device backboxes and ductwork to the appropriate depth relative to the thickness of the Acoustical Plaster System.

1			Install proper blocking or other attachment system. Blocking or other attachment details shall be approved by
2			the Acoustical Plaster System manufacturer.
3		C.	Protect adjacent surfaces. Mask and cover all walls and floors for in-place protection.
4		D.	Prime the existing painted gypsum board ceiling with Sherwin Williams preprite bonding primer or equal.
5		E.	Clean and prepare surfaces to receive the Acoustical Plaster System in accordance with the manufacturer's
6			instruction for each particular substrate condition and as specified.
7			
8	3.3.	APPL	ICATION
9 10		A.	Apply the Acoustical Plaster System in accordance with manufacturer's written installation guidelines. Use applicators and techniques best suited for substrate and type of material being applied.
11 12		В.	Apply sound absorbing panels to existing gypsum ceiling with adhesive per Acoustical Plaster System manufacturer's requirements.
13		C.	Apply materials under adequate illumination. Replicate the actual finished lighting in the space during
14		٥.	application of plaster coatings.
15		D.	Apply sound absorbing panels, plaster base coat and finish coat at not less than the manufacturer's
16			recommended thicknesses.
17		E.	Coverage and hide shall be complete. When undercoats show through final coat of plaster, the surface shall be
18			covered by additional coats until the finish plaster coat is of uniform finish, color, appearance and coverage, at
19			no additional cost to the Owner.
20			
21	3.4.	CLEANING	
22		A.	At end of each workday, remove empty cans, rags, trash and other discarded materials from the project site.
23		В.	Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily
24			from site.
25		C.	After completing Acoustical Plaster System application clean all adjacent surfaces including walls, floors,
26			windows, frames, fixtures, devices, and similar items. Remove spattered materials by washing, scraping, or other
27			methods. Do not scratch or damage adjacent finished surfaces.
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29			
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31			
32			END OF SECTION