PROJECT MANUAL

CDB # 818-010-103 - PHASE ONE

REPAIR AND REPLACE ROOFS – PHASE ONE ILLINOIS BOARD OF HIGHER EDUCATION WESTERN ILLINOIS UNIVERSITY - MACOMB MACOMB, MCDONOUGH COUNTY, ILLINOIS CDB BUILDING INVENTORY NO.

CURRENS HALL (T4005) PHASE ONE HEATING PLAN ANNEX (4019) PHASE ONE



CONTRACT:

GENERAL

State of Illinois

CAPITAL DEVELOPMENT BOARD

USING AGENCY: WESTERN ILLINOIS UNIVERSITY - MACOMB

BY: ARCHITECHNICS

510 MAINE STREET, QUINCY, ILLINOIS 62301 (217) 222-0554

FURHMAN ENGINEERING 2582 SOUTH 11TH STREET SPRINGFIELD, IL 62703



ISSUED FOR BIDDING

DATE: July 5, 2019

License Expiration Date: 11/39/20

Signature:

Date Signed:

7/5/2019

ARCHITECHNICS, INC. PROJECT NO: 5797

State of Illinois CAPITAL DEVELOPMENT BOARD

ARCHITECHNICS 510 MAINE ST., FLR. 10 QUINCY, IL 62301 217-222-0554

PROJECT MANUAL FOR

CDB 818-010-103 - PHASE ONE

REPAIR AND REPLACE ROOFS - PHASE ONE ILLINOIS BOARD OF HIGHER EDUCATION WESTERN ILLINOIS UNIVERSITY MACOMB, MCDONOUGH COUNTY, ILLINOIS

DATE: 7/5/2019

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General: PAUL T. WESTERHOFF, AIA, pwesterhoff@architechnicsinc.com Phone: 217-222-0054 Fax: 217-223-3361 SPECIFIER:

BIDDING & CONTRACT REQUIREMENTS 00 01 15 - Drawings, Schedules and Details

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All Drawings dated: 7/5/2019

END 00 01 15.

BIDDING & CONTRACT REQUIREMENTS 00 11 13 – Advertisement for Bids

The State of Illinois, Capital Development Board (CDB) will receive sealed bids for:

CDB PROJECT #: 818-010-103

TITLE: REPAIR AND REPLACE ROOFS - PHASE ONE

LOCATION: WESTERN ILLINOIS UNIVERSITY

> 1 UNIVERSITY CIRCLE MACOMB, IL 61455

ILLINOIS BOARD OF HIGHER EDUCATION **USING AGENCY:**

MCDONOUGH COUNTY:

PROJECT DESCRIPTION: Phase 1 consists of roof replacement at Currens Hall (T4005) and the Heating Plant Annex (4019) with new EPDM roof systems.

Single Prime Delivery Method:

TRADE COST RANGE BID DATE/TIME

Thursday, July 25, 2019 at 2:00 PM under \$1,500,000.00 **GENERAL**

BID LOCATION:

ILLINOIS CAPITAL DEVELOPMENT BOARD **401 SOUTH SPRING STREET** THIRD FLOOR, WILLIAM G. STRATTON BUILDING SPRINGFIELD, IL 62706 BID MODIFICATION FAX NO. (217) 782-4938

Minority, Female & Veteran Business Subcontractor/Supplier Participation is Applicable.

Obtain Plans From:

ARCHITECHNICS 510 MAINE STREET, FLOOR 10 QUINCY, IL 62301

PHONE: 217-222-0554 FAX: 217-223-3361

Refundable Plan Deposit: (\$100 PER SET) Deposits will be refunded in full only those who submit a bona fide bid and / or to any plan holder who returns the bidding documents in good condition to the Architect's office within a ten (10) day period following the bid opening date. If the conditions are not met, the plan deposit shall be forfeited.

Pre-Bid Meeting (*Not Mandatory*): A Pre-Bid meeting will be held at the Project Site,

on Monday, July 15, 2019 at 11:00 AM, meet at the "Physical Plant" Building on the campus of the Western Illinois University, Macomb, McDonough County, Illinois

(reference sheet G1 "Site Map" for location).

INFORMATION TO BIDDERS:

A. <u>Prequalification</u>. Bidders and protected subcontractors must be prequalified with CDB; allow 45 days for application processing. For an application and a copy of CDB's Standard Documents for Construction (applicable to this project), visit CDB's Website www.illinois.gov/cdb or phone 217/782-6152 (TDD 217/524-4449).

BIDDING & CONTRACT REQUIREMENTS 00 11 13 – Advertisement for Bids

- B. MBE/FBE/VBE MBE/FBE/VBE firms must be certified or registered with CMS as an MBE, FBE, or VBE prior to bidding.
- C. <u>Prevailing Wage</u>. Contractor shall not pay less than the prevailing rates of wages to all laborers, workmen, and mechanics performing work under this contract, and shall comply with the requirements of the Illinois Wages of Employees on Public Works Act(820 ILCS 130/1-12).
- D. Registration with the Illinois Procurement Gateway (IPG). Vendors may pre-register with the IPG and receive a vendor registration number. The IPG is a web based system that serves as the primary location for entering, organizing, and reviewing vendor information. The IPG allows prospective vendors to provide disclosures, registrations, and other documentation needed to do business with the State in advance of any particular procurement. Registration in the Illinois Procurement Gateway is optional.
- E. <u>Certifications and Disclosures</u>. Vendors must have an approved Illinois Procurement Gateway registration number and completed Form B, or submit the Standard Certifications and Disclosure Form(s) (Form A) with bid at time of submittal. Failure to provide a completed Form A standard certifications and financial disclosure or Form B, be registered with the Illinois Procurement Gateway, will result in rejection of bid.
- F. <u>Subcontractors</u>. You are also required to submit disclosure forms and standard certifications for subcontractors not considered incidental to the performance of the contract with an annual value over \$50,000 within 20 days of execution of your contract with CDB or execution of the contract between you and your subcontractor, whichever is later. A valid IPG registration number can be provided in lieu of hard copies of the standard certifications and financial disclosure forms. (See D. above.) Subcontractors must receive an Authorization to Proceed prior to performance of any work.
- G. <u>Supplement to SDC</u>. Bidders are advised to review Article 01 11 01, Supplement to SDC, for any revisions to the Standard Documents for Construction.
- H. <u>Progress Payments</u>. Progress payments will normally be issued by the Illinois Comptroller within 30 business days after CDB receives and approves an Invoice-Voucher.
- I. For Single Prime Delivery Method Projects: Any reference in the Specifications and the Drawings for Multiple Prime Trades shall be considered as the Prime Bidding Trade.
- J. <u>Bid Protest</u>. Bidder may submit a written protest to the Protest Review Office following the requirements of the Administrative Rules, 44 Ill. Adm. Code 8.2075. For protests related to specifications, the Protest Review Office must physically receive the protest no later than fourteen (14) days after solicitation or related addendum was posted to the Bulletin. For protest related to rejection of individual bids or awards, the protest must be received by close of business no later than fourteen (14) days after the protesting party knows or should have known of the facts giving rise to the protest. To reach the Protest Review Office:

Chief Procurement Office Attn: Protest Review Office 401 South Spring Street Suite 515 Stratton Office Building Springfield, IL 62706 Phone: (217) 558-1393 Facsimile: (217) 558-1399 Illinois Relay: (800) 526-0844

CAPITAL DEVELOPMENT BOARD

Jim Underwood Executive Director

Heather Oxley Project Manager 217-782-8718 phone Heather.Oxley@illinois.gov

RETURN WITH BID

NAME OF FIRM:							
CDB FIRM ID NO:							
FOR GENERAL WORK							
BID FOR: CDB PROJECT NUMBER: 818-010-103 - PHASE ONE							
PROJECT TITLE: REPAIR AND REPLACE ROOFS - PHASE ONE ILLINOIS BOARD OF HIGHER EDUCATION WESTERN ILLINOIS UNIVERSITY MACOMB, MCDONOUGH COUNTY, ILLINOIS							
BID TO: State of Illinois, Capital Development Board							
THE BIDDER ACKNOWLEDGES THE FOLLOWING ADDENDA: (Failure to acknowledge may cause bid rejection.)							
NO, DATED NO, DATED NO, DATED							
NO, DATED NO, DATED NO, DATED							
EACH BID SHALL INCLUDE:							
A. BID FORM (00 41 00) B. SUBCONTRACTOR/SUPPLIER REQUIREMENTS (00 41 01) C. DHR PC-2 FORM (00 41 04) D. MBE/FBE/VBE FORM (00 41 05) E. BID SECURITY (00 41 06) F. PRODUCT SUBSTITUTION FORM (at Bidder's option) (00 41 07) G. Standard Business Terms and Conditions (00 41 08) H. Forms A CERTIFICATIONS AND DISCLOSURES or Forms B (00 41 09)							
BASE BID: THE BIDDER AGREES TO PERFORM ALL WORK FOR THE ABOVE TRADE, EXCLUSIVE OF ALTERNATE BIDS, FOR THE SUM OF:							
DOLLARS (\$							

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 00 – Bid Form**

RETURN WITH BID

Note: Any qualifying or conditional statements included on the bid form or attached to the bid form may result in rejection of the bid unless rescinded by the bidder.								
The bidder requests preference pursuant to the Procurement of Domestic Products Act (PA 93-0954). We certify that all offered goods were/will be manufactured in the United States. We understand that, if awarded a contract based on a preference for US manufactured goods, this certification will become part of the contract, and, if we knowingly supply non-US manufactured goods, we will be subject to penalties that include debarment for 5 years, voiding of the contract, and civil damages.								
PRODUCT SUBSTITUTION FORM	M ATTACHED (00 41 07): □							
Duration of Bids: The bidders shall hold their bids open for 60 (*A/E to specify time if not 60 days) calendar days after the bid opening.								
By signing below, the Bidder agrees to perform all work in accordance with the terms and conditions of the bidding documents and enter into and execute a contract with CDB, if awarded, on the basis of this bid for the sum indicated herein:								
BIDDER (show Company name and	DBA):							
Signature of authorized representative	ve:							
Printed Name:	FEIN #:							
Title:	Date							
Address:								
Telephone:	Fax: Email:							
For Corporations only: Attest By:	(Corporate Secretary)							

RETURN WITH BID

Subcontractor Requirements

Pursuant to requirements of 30 ILCS 500/20-120(a), the contract shall state whether the services of a subcontractor will be used. The contract shall include names and addresses of all known subcontractors with subcontracts with an annual value of more than \$50,000, the general type of work to be performed, and the expected amount of money each will receive under the contract. Financial and Conflict of Interest disclosures and standard certifications of each subcontractor not considered incidental to the performance of a contract with an annual value over \$50,000 must be submitted to CDB by the contractor prior to the subcontractor performance of work.

List known subcontractors not considered incidental to the performance of a contract with an annual value over \$50,000.

	Name of Subcontractor	Address	CDB Registration Number	Total Expected Value	Description / Scope of Work
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

(Use additional sheets if necessary.)

RETURN WITH BID BIDDING & CONTRACT REQUIREMENTS Document 00 41 04 - DHR Form PC-2

BIDDER'S EMPLOYEE UTILIZATION FORM

All bidders shall complete the DHR Form PC-2 per 00 43 38.1 of the <u>Standard Documents For Construction</u> (SDC) and as identified by trade category. Failure to complete may result in rejection of the bid per 00 43 38.1 of the SDC.

Workforce projections are for work performed on the project being bid. Workforce projections shall include any subcontractor'(s') workforce. The bidder, if awarded a contract, shall be responsible for ensuring the subcontractor(s) meet minority/female/veteran workforce goals.

CDB's acceptance of the Bidder's PC-2 projection is a condition of contract award. CDB will notify the bidder if the projection is unacceptable. The bidder shall be given the opportunity to negotiate an acceptable projection with the CDB. Failure to reach an acceptable workforce projection may result in rejection of the contract award.

GOALS INSTRUCTIONS for

The following workforce hiring goals are in effect for each trade. These goals represent a minimum of **total** workforce hours.

Trade: General

Project: 818-010-103 Phase: 1

Minority / Female Utilization		Under "Total Employees", project the total number of					
I	Percent	employees to be used in the performance of the contract					
Sheetmetal	25%	work by your firm and your subcontractors. Include					
Equipment operators	20%	within the projections, separate numbers for					
Elevator Mechanics	15%	Journeyman and Apprentices by the letters "J" and "A".					
Ironworkers/Boilermakers	20%	(See next page)					
Carpenters	25%						
Acoustical Tilers	20%	Contact Person					
Ceramic Tile Setters	15%	Contact 1 cison					
Brick Masons/Tuckpointers	15%						
Cement Masons	20%	Firm Name					
Lathers (Metal/Wood)	20%						
Tapers	15%						
Plasters	15%	Address					
Painters	20%						
Glaziers	12%	Address					
Roofers	25%	Addiess					
Metal Deck Roofers	20%						
Pipefitters	25%						
Plumbers	25%	Telephone Number					
Insulators	12%						
Temperature Control	12%						
Laborers	33%	Fax Number					
Electricians	25%						
Fencing, Guard Rails	15%						
Landscaping	25%	Email Address					
Truck Drivers	20%	DIID //					
Air Test & Balancing	0%	DHR #					
Sandblast/Waterproofing/Caulkers	0%	DHR Expiration Date:					
Asbestos Workers	30%	Diffic Expiration Date.					
Terrazzo	12%						
Carpet	15%						

RETURN WITH BID

BIDDING & CONTRACT REQUIREMENTS

Document 00 41 04-Bid Form-DHR Form PC-2

<u>CDB Project Number</u> **818-010-103**

CDB Contract No.							
Contractor I.D.							
FOR CDB OFFICE USE ONLY							

Contract/Trade Bid FEP Tech Monitored/Non-Monitored

General					Kim Barker						Monitored														
TRADE CATEGORIES	Trade Codes	Afric	an A	merio	an	Hispanic Native American						As	ian		Caucasian				Veteran						
		M	ale	Fer	nale	Male Female		Male Female		Male Fem		nale	Male		Female		Male		e Female						
		J	Α	J	Α	J	Α	J	Α	J	Α	J	Α	J	Α	J	Α	J	Α	J	Α	J	Α	J	Α
Sheet Metal	3																								
Equipment Operators	4																								
Elevator Mechanics	5																								
Ironworker/BoilerMakers	6																								
Carpenters	7																								
Acoustical Tilers	8																								
Ceramic Tilesetters	9																								
Brick Mason/Tuckpointers	10																								
Cement Masons	11																								
Lather - Metal/Wood	12																								
Tapers	13																								
Plasterers	14																								
Painters	15																								
Glaziers	16																								
Roofers	17																								
Metal Deck Roofers	18																								
Pipefitter/Sprinkler Fitters	19																								
Plumbers	20																								
Insulators	21																								
Temperature Control	22																								
Laborers	23																								
Electricians	24																								
Fencing/Guard Rails	25																								
Landscaping	26																								
Well Drilling	27																								
Truck Drivers	28																								
Air Test & Balancing	29																								
SndBlst/Wtrprfng.Caulkers	30																								
Asbestos Workers	31																								
Terrazzo	32																								
Carpet	33																								
TOTALS																									

NOTE: Bidder's failure to complete DHR Form PC-2 may result in rejection of the bid. Bidder shall set forth a total projection of the total workforce to be allocated for this contract. Approval of the workforce hiring projection is a post-award requirement.

Document 00 41 05 - Minority/Women/Veterans Business Enterprise Program Requirements

RETURN WITH BID

Name of Bidder:	CDB PROJECT NO. 818-010-103

GENERAL CONTRACT REQUIREMENTS FOR MINORITY/WOMEN/VETERANS BUSINESS PARTICIPATION

A. This project has goals for participation by minority and women owned businesses as first and second tier (level) subcontractors or suppliers, and as the prime contractor, in accord with the Business Enterprise for Minorities, Women, and Persons with Disabilities Act (30 ILCS 575).

GOALS: The MBE/WBE goal for this contract is 6% MBE / 4% WBE percent of the <u>amount of the contract</u> <u>awarded</u> by CDB.

B. This project has goals for participation by <u>veteran owned businesses</u> as first and second tier (level) subcontractors or suppliers, and as the prime contractor, in accord with the Illinois Procurement Code (30 ILCS 500/45-57).

GOALS: The VBE goal for this contract is 0 percent of the <u>amount of the contract awarded</u> by CDB.

C. The contract award is defined as a Base Bid plus an or all alternates. Only MBE/WBE/VBE firms certified or registered with the Illinois Department of Central Management Services(CMS) are acceptable.
NOTE: MBE/WBE/VBE goals are in addition to those specified for workforce projections (DHR Form PC-2 Form).

INSTRUCTIONS: When Goals are established, the Bidder <u>shall</u> include below the names of certified minority/women/veteran owned business enterprises which will perform at least the percentage of the work specified in the Goals statement (see above) and the proposed dollar value of subcontract (percentage values are not acceptable). If the Bidder is a MBE/WBE/VBE, then list the work to be done with own forces on the form. If the Bidder needs assistance in identifying subcontractors or suppliers, contact CDB's Fair Employment Practices Unit(FEP) Unit and assistance will be provided in accordance with the MBE/WBE/VBE requirements in the Standard Documents for Construction. Efforts to comply with these requirements will be considered in evaluating whether the bid is responsive.

- * A completed 4105 Form should be provided with the vendor's bid. Submission of a blank 4105 form (defined as no participation listed) with a bid that includes Minorities, Women or Veterans Business Enterprise goals requires submission of Good Faith Effort (GFE) documentation (without notice) within 4 (four) calendar days of the bid date and checking the associated box on the 4105 form. In this case a 10 day cure period is not applicable. Good Faith Effort documentation should identify efforts made prior to bid due date. Failure to provide any of the required documentation may result in the vendor's bid being deemed non-responsive. Submit documentation to CDB.FEP@illinois.gov.
- ❖ If the percentage of the work (Base Bid plus all Alternates) is less than the specified goals, bidder shall be notified and afforded a period not to exceed 10 (ten) calendar days from the date of notification (10 day cure period) to cure deficiencies or submit written evidence of its good faith efforts to achieve the goals.
- Firms cannot be identified after the 10 day cure period.
- ❖ Failure to identify firms, submit good faith effort, or both within the 10 day cure period will result in rejection of bid.
- ❖ Firms shall be certified or registered with CMS as an MBE/WBE/VBE prior to bid opening.
- ❖ Firms can only be used to satisfy one goal, MBE, WBE, or VBE not multiple goals.
- ❖ See the 2009 Standard Documents for Construction and the most current Supplement: 00 43 39 .10 − Calculation of MBE/WBE/VBE Participation as a Material Supplier or Subcontractor.

BIDDER'S MBE/WBE/VBE PARTICIPATION SHOULD BE LISTED ON THE FOLLOWING BASE BID SHEETS AND ALTERNATE SHEETS (IF APPLICABLE).

(Attach additional sheet if necessary)

Document 00 41 05 – Minority/Women/Veterans Business Enterprise Program Requirements

RETURN WITH BID

REPORT WITH DID							
Name of Bidder:	CDB PROJECT NO. 818-010-103						
BASE BID:							

	CDB Prequalification or Registration Number, Name of MBE/WBE/VBE Firm Address City State Zip	Proposed \$ Value of Subcontract	Telephone Number	MBE/WBE/VBE Designation And Certifying Agency	Trade Performed or Supply Provided	Description / Scope of Work	CDB Use Only CMS Expiration Date
1.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
2.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
3.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
4.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
5.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
6.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
7.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			
8.				☐ MBE ☐ WBE ☐ VBE ☐ Certified by CMS			

CDB-00 41 05 November 1, 2018 CDB 818-010-103 - PHASE ONE FOR CDB USE ONLY: Original Amendment # Date Amended _____

Date

Document 00 41 05 – Minority/Women/Veterans Business Enterprise Program Requirements **RETURN WITH BID**

Na	ame of Bidder:	CDB PROJECT NO. 818-010-103
The Bidd	der represents to CDB that, to the best	of its knowledge and belief:
1.	and definitions of the Minority/Women/Veterans	certified by Central Management Services under the provisions Business Enterprise Program Acts as a minority, women or
2.	` '	Bidder for the first and/or second level subcontractors and CDB will meet or exceed the specified MBE/WBE goals and Jomes Program Act.
3.	The subcontract(s) which will be executed by the	Bidder for the first and/or second level subcontractors and CDB will meet or exceed the specified VBE goals, and will
bidder s	hall check the box that it will submit	tion listed) is submitted with the bid, the good faith effort documentation (without late of the bid opening: □ check if applicable
CDB's Star	rees to and certifies that it will comply with the c ndard Documents for Construction, and the mos Vomen/Veterans Business Enterprise Program A	

SIGNATURE IS REQUIRED

Signature, Title

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 06 – Bid Bond**

RETURN WITH BID

State of Illinois CAPITAL DEVELOPMENT BOARD

as Principal, and a corporation of the State of				
as Surety, are held and firmly bound unto the State of Illin Board, as Obligee, in the amount of ten percent (10%) of Principal and Surety bind themselves, their heirs, executor severally, to this agreement.	nois, acting by and through the Capital Development the amount of the base bid for the payment of which rs, administrators, successors and assigns, jointly and			
Principal has submitted to Obligee a bid to enter into a wr	ritten contract, for			
CDB Project Number: in accordance with bidding documents for the project, wh hereinafter referred to as "the Contract".	Division of Work:ich contract is by reference made a part hereof and is			
THE CONDITION OF THIS OBLIGATION is that if Pri period of time specified for acceptance, shall comply with the bid within the time specified after date of the Notice o post award requirements, if Principal shall pay Obligee (1 amount of its bid, or (2) shall pay Obligee the amount of ta sole bidder and after an attempt to secure other bids by a shall be null and void; otherwise it shall remain in full for	all post award requirements as required by the terms of			
Surety hereby agrees that its obligation shall not be in acceptance or compliance with post award requirement extensions.	mpaired by any extensions of time for Obligee's ents. Surety hereby waives notice of such			
Signed and sealed this c	lay of, 20			
CONTRACTOR	SURETY			
BY BY	OFFICER OF THE SURETY			
Title Title	e			
ATTEST:				
CORPORATE SECRETARY (Corporations only)				
STATE OF JURAT (Notary's Statem	ent Authenticating Signature)			
COUNTY OF				
I, , a Notary Pu	ablic in and for said county, do hereby certify that			
I, , a Notary Pu (Insert Name of Attor) who is personally known to me to be the same person instrument on behalf of SURETY, appeared before m respectively, that he/she signed, sealed, and delivered for the uses and purposes therein set forth.	ney-In-Fact for SURETY) n whose name is subscribed to the foregoing ne this day in person and acknowledged I said instrument as his/her free and voluntary act			
Given under my hand and notarial seal this				
My commission expires				
Notary Signature				

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 07 – Product Substitution Form**

DEDLICT

RETURN WITH BID

The Bidder should include this form with the Bid Forms if a material substitution is offered at that time. See Article 00 43 25 of the Standard Documents for Construction.

The Base Bid and Alternate Bids include only those products specified in the bidding documents. Following is a list of substitute products which bidder proposes to furnish on this project, with the difference in price being deducted from the Base Bid or Alternate Bids.

NOTE: CDB WILL NOT ACCEPT SUBSTITUTIONS FOR SPECIFIED MEMBRANE ROOF SYSTEM(S).

Bidder understands that acceptance of any proposed substitution is at CDB's option. Approval or rejection of any substitutions listed below will be indicated prior to executing the Contract.

MANITEACTUDED'S NAME AND DOODLICT

MANUFACTURER S NAME AND PRODUCT		<u>DEDUCT</u>
	•	
	•	
EVALUATION. Contract award will be made in accord with the Construction. Only the lowest responsible bidder's Proposed Prode evaluated.		
evariation.		
BIDDER'S NAME:		<u></u>
TD A DE-		

Document 00 41 08 - Standard Business Terms and Conditions **RETURN WITH BID**

State Required Ethical Standards Governing Contract Procurement:

Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. The bidder indicates that each certification is made and understood, and that each disclosure requirement has been understood and completed.

In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for the chief procurement officer to void the contract, or subcontract, and may result in the suspension or debarment of the bidder or subcontractor.

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all subcontracts.

THE BIDDER MAKES THE FOLLOWING REPRESENTATIONS:

- A. The Bidder certifies that it is aware of the requirements of the Substance Abuse Prevention on Public Works Project Act, 820 ILCS 265, and that, if awarded a contract, it is or will be in full compliance with the law prior to beginning work, including the requirement to file with CDB a written substance abuse plan which meets or exceeds the requirements of the Act.
- B. The Bidder certifies that it is aware of the requirements of section 23.9 of the State Comptroller Act, 15 ILCS 405/23.9, which was effective August 26, 2011. This statute requires a fee of \$15 to cover expenses related to the administration of the Minority Contractor Opportunity Initiative. Any Vendor awarded a contract of \$1,000 or more from this solicitation is required to pay a fee of \$15. The Comptroller shall deduct the fee from the first check issued to the Vendor under the contract and deposit the fee in the Comptroller's Administrative Fund.

C. <u>Apprenticeship and Training Certification</u>
In accordance with the provisions of Section 30-22 (6) of the Illinois Procurement Code, the bidder certifies that it is a participant, either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will be performed by subcontract that each of its subcontractors either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract.

The bidder shall include with this bid package the official Certificate of Registration or a verification letter from the US Department of Labor (USDOL) certified group program sponsor for the USDOL certified apprenticeship and training program of which the bidder is a member for <u>each</u> of the types of work or crafts that will be performed with the bidder's forces and for <u>each</u> of the types of work or crafts that will be performed by the subcontractor(s) (if the subcontractor is participating in an approved program at the time of bid).

D. Illinois Office Certification

Bidder certifies that it will maintain an Illinois office as the primary place of employment for persons employed in the construction authorized by the contract in accordance with 30 ILCS 500/30-22(8).

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E. STANDARD BUSINESS TERMS AND CONDITIONS

- 1. AVAILABILITY OF APPROPRIATION; SUFFICIENCY OF FUNDS: This contract is contingent upon and subject to the availability of sufficient funds. CDB may terminate or suspend this contract, in whole or in part, without penalty or further payment being required, if (i) sufficient funds for this contract have not been appropriated or otherwise made available to CDB by the State or the Federal funding source, (ii) the Governor or CDB reserves funds, or (iii) the Governor or CDB determines that funds will not or may not be available for payment. CDB shall provide notice, in writing, to the Vendor of any such funding failure and its election to terminate or suspend the contract as soon as practicable. Any suspension or termination pursuant to this Section will be effective upon the date of the written notice, unless otherwise indicated.
- 2. AUDIT/RETENTION OF RECORDS (30 ILCS 500/20-65): Vendor and its subcontractors shall maintain books and records relating to the performance of the contract or subcontract and necessary to support amounts charged to the State under the contract or subcontract. Books and records, including information stored in databases or other computer systems, shall be maintained by the Vendor for a period of three years from the later of the date of final payment under the contract or completion of the contract, and by the subcontractor for a period of three years from the later of final payment under the term or completion of the subcontract. If federal funds are used to pay contract costs, the Vendor and its subcontractors must retain its records for five years. Books and records required to be maintained under this section shall be available for review or audit by representatives of: the procuring Agency, the Auditor General, the Executive Inspector General, the Chief Procurement Officer, State of Illinois internal auditors or other governmental entities with monitoring authority, upon reasonable notice and during normal business hours. Vendor and its subcontractors shall cooperate fully with any such audit and with any investigation conducted by any of these entities. Failure to maintain books and records required by this section shall establish a presumption in favor of the State for the recovery of any funds paid by the State under the contract for which adequate books and records are not available to support the purported disbursement. The Vendor or subcontractors shall not impose a charge for audit or examination of the Vendor's books and records.
- 3. TIME IS OF THE ESSENCE: Time is of the essence with respect to Vendor's performance of this contract. Vendor shall continue to perform its obligations while any dispute concerning the contract is being resolved unless otherwise directed by the State.
- 4. NO WAIVER OF RIGHTS: Except as specifically waived in writing, failure by a Party to exercise or enforce a right does not waive that Party's right to exercise or enforce that or other rights in the future.
- 5. FORCE MAJEURE: Failure by either Party to perform its duties and obligations will be excused by unforeseeable circumstances beyond its reasonable control and not due to its negligence including acts of nature, acts of terrorism, riots, labor disputes, fire, flood, explosion, and governmental prohibition. The non-declaring Party may cancel the contract without penalty if performance does not resume within 30 days of the declaration.
- 6. CONFIDENTIAL INFORMATION: Each Party, including its agents and subcontractors, to this contract may have or gain access to confidential data or information owned or maintained by the other Party in the course of carrying out its responsibilities under this contract. Vendor shall presume all information received from the State or to which it gains access pursuant to this contract is confidential. Vendor information, unless clearly marked as confidential and exempt from disclosure under the Illinois Freedom of Information Act, shall be considered public. No confidential data collected, maintained, or used in the course of performance of the contract shall be disseminated except as authorized by law and with the written consent of the disclosing Party, either during the period of the contract or thereafter. The receiving Party must return any and all data collected, maintained, created or used in the course of the performance of the contract, in whatever form it is maintained, promptly at the end of the contract, or earlier at the request of the disclosing Party, or notify the disclosing Party in writing of its destruction. The foregoing obligations shall not apply to confidential data or information lawfully in the receiving Party's possession prior to its acquisition from the disclosing Party; received in good faith from a third-party not subject to any confidentiality obligation to the disclosing Party; now is or later becomes publicly known through no breach of

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confidentiality obligation by the receiving Party; or is independently developed by the receiving Party without the use or benefit of the disclosing Party's confidential information.

- 7. USE AND OWNERSHIP: All work performed or supplies created by Vendor under this contract, whether written documents or data, goods or deliverables of any kind, shall be deemed work-for-hire under copyright law and all intellectual property and other laws, and the State of Illinois is granted sole and exclusive ownership to all such work, unless otherwise agreed in writing. Vendor hereby assigns to the State all right, title, and interest in and to such work including any related intellectual property rights, and/or waives any and all claims that Vendor may have to such work including any so-called "moral rights" in connection with the work. Vendor acknowledges the State may use the work product for any purpose. Confidential data or information contained in such work shall be subject to confidentiality provisions of this contract.
- 8. INDEPENDENT CONTRACTOR: Vendor shall act as an independent contractor and not an agent or employee of, or joint venturer with the State. All payments by the State shall be made on that basis.
- 9. SOLICITATION AND EMPLOYMENT: Vendor shall not employ any person employed by the State during the term of this contract to perform any work under this contract. Vendor shall give notice immediately to the Agency's director if Vendor solicits or intends to solicit State employees to perform any work under this contract.
- 10. COMPLIANCE WITH THE LAW: The Vendor, its employees, agents, and subcontractors shall comply with all applicable federal, state, and local laws, rules, ordinances, regulations, orders, federal circulars and all license and permit requirements in the performance of this contract. Vendor shall be in compliance with applicable tax requirements and shall be current in payment of such taxes. Vendor shall obtain at its own expense, all licenses and permissions necessary for the performance of this contract.
- 11. BACKGROUND CHECK: Whenever the State deems it reasonably necessary for security reasons, the State may conduct, at its expense, criminal and driver history background checks of Vendor's and subcontractors officers, employees or agents. Vendor or subcontractor shall reassign immediately any such individual who, in the opinion of the State, does not pass the background checks.
- 12. APPLICABLE LAW: This contract shall be construed in accordance with and is subject to the laws and rules of the State of Illinois. The Department of Human Rights' Equal Opportunity requirements (44 Ill. Adm. Code 750) are incorporated by reference. Any claim against the State arising out of this contract must be filed exclusively with the Illinois Court of Claims (705 ILCS 505/1). The State shall not enter into binding arbitration to resolve any contract dispute. The State of Illinois does not waive sovereign immunity by entering into this contract. The official text of cited statutes is incorporated by reference (An unofficial version can be viewed at http://www.ilga.gov/legislation/ilcs/ilcs.asp). In compliance with the Illinois and federal Constitutions, the Illinois Human Rights Act, the U. S. Civil Rights Act, and Section 504 of the federal Rehabilitation Act and other applicable laws and rules the State does not unlawfully discriminate in employment, contracts, or any other activity.
- 13. ANTI-TRUST ASSIGNMENT: If Vendor does not pursue any claim or cause of action it has arising under federal or state antitrust laws relating to the subject matter of the contract, then upon request of the Illinois Attorney General, Vendor shall assign to the State rights, title and interest in and to the claim or cause of action.
- 14. CONTRACTUAL AUTHORITY: The Agency that signs for the State of Illinois shall be the only State entity responsible for performance and payment under the contract. When the Chief Procurement Officer or authorized designee signs in addition to an Agency, they do so as approving officer and shall have no liability to Vendor. When the Chief Procurement officer or authorized designee signs a master contract on behalf of State agencies, only the Agency that places an order with the Vendor shall have any liability to Vendor for that order.

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- 15. NOTICES: Notices and other communications provided for herein shall be given in writing by registered or certified mail, return receipt requested, by receipted hand delivery, by courier (UPS, Federal Express or other similar and reliable carrier), by e-mail, or by fax showing the date and time of successful receipt. Notices shall be sent to the individuals who signed the contract using the contact information following the signatures. Each such notice shall be deemed to have been provided at the time it is actually received. By giving notice, either Party may change the contact information.
- 16. MODIFICATIONS AND SURVIVAL: Amendments, modifications and waivers must be in writing and signed by authorized representatives of the Parties. Any provision of this contract officially declared void, unenforceable, or against public policy, shall be ignored and the remaining provisions shall be interpreted, as far as possible, to give effect to the Parties' intent. All provisions that by their nature would be expected to survive, shall survive termination. In the event of a conflict between the State's and the Vendor's terms, conditions and attachments, the State's terms, conditions and attachments shall prevail.
- 17. PERFORMANCE RECORD / SUSPENSION: Upon request of the State, Vendor shall meet to discuss performance or provide contract performance updates to help ensure proper performance of the contract. The State may consider Vendor's performance under this contract and compliance with law and rule to determine whether to continue the contract, suspend Vendor from doing future business with the State for a specified period of time, or to determine whether Vendor can be considered responsible on specific future contract opportunities.
- 18. FREEDOM OF INFORMATION ACT: This contract and all related public records maintained by, provided to or required to be provided to the State are subject to the Illinois Freedom of Information Act notwithstanding any provision to the contrary that may be found in this contract.

Signature:	Date:	
Printed Name:	_	
Title:	-	
Phone Number:	-	
Email Address:		

BIDDING & CONTRACT REQUIREMENTS Document 00 41 09 – Certifications and Disclosures RETURN WITH BID FORMS A

Effective July 1, 2014 – BIDDERS HAVE TWO OPTIONS FOR PROVIDING THE REQUIRED CERTIFICATIONS AND DISCLOSURES:

1. FORMS A –THE STANDARD PAPER METHOD OF REQUIRED DOCUMENTS AND INFORMATION.

OR

2. FORMS B AND AN ILLINOIS PROCUREMENT GATEWAY (IPG) REGISTRATION NUMBER WHICH ALLOWS FOR REDUCED DOCUMENTATION WHEN USING AN APPROVED IPG REGISTRATION NUMBER.

The Illinois Procurement Gateway is located at https://ipg.vendorreg.com.

The IPG is a web based system that serves as the primary location for entering, organizing, and reviewing vendor information. The IPG allows vendors to provide disclosures, registrations, and other documentation needed to do business with a State agency or university in advance of any particular procurement, thereby reducing the number of documents needed to be submitted with a bid.

The State reviews information submitted through the IPG to register vendors in advance of submitting bids and offers for contracts. Upon satisfactory registration, vendors receive a registration number that may be used when submitting the required forms. Reviews may exceed two weeks when information submitted is incomplete or inaccurate.

BIDDING & CONTRACT REQUIREMENTS Document 00 41 09 – Certifications and Disclosures RETURN WITH BID

FORMS A

*This Forms A section shall be used i	you are not using IPG	(Illinois Procurement Gateway) Registration #.
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BIDDING & CONTRACT REQUIREMENTS Document 00 41 09 – Certifications and Disclosures RETURN WITH BID

A vendor responding to a solicitation by the State of Illinois must return the information requested within this section with their bid or offer if they are not registered in the Illinois Procurement Gateway (IPG). Failure to do so may render their bid or offer non-responsive and result in disqualification.

Please read this entire Forms A and provide the requested information as applicable and per the instructions. All forms and signature areas contained in this Forms A must be completed in full and submitted along with the bid in an Invitation for Bid; and completed in full and submitted along with the technical response and price proposal, which combined will constitute the Offer, in a Request for Proposal.

Vendor Name:	Phone:
Street Address:	Email:
City, State Zip:	Vendor Contact:

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 09 – Certifications and Disclosures**

RETURN WITH BID

OUTLINE

FORMS A

	I OIMID II	
Complete this section if you are no	ot using an IPG (Illinois Procur	ement Gateway) Registration #

	Part
Business and Directory Information	1
Illinois Department of Human Rights Public Contracts Number	
Authorized to Do Business in Illinois	3
Standard Certifications	4
State Board of Elections	5
Disclosure of Business Operations in Iran	6
Financial Disclosures and Conflicts of Interest	7
Taxpayer Identification Number	8

BIDDING & CONTRACT REQUIREMENTS Document 00 41 09 – Certifications and Disclosures

RETURN WITH BID

STATE OF ILLINOIS

BUSINESS AND DIRECTORY INFORMATION

1.1.	Name of Business (official name and DBA)	
1.2.	Business Headquarters (address, phone and fax)	
1.3.	If a Division or Subsidiary of another organization provide the r	name and address of the parent
1.4.	Billing Address	
1.5.	Name of Chief Executive Officer	
1.6.	Company Web Site Address	
1.7.	Type of Organization (sole proprietor, corporation, etcshould	l be same as on Taxpayer ID form below
1.8.	Length of time in business	
1.9.	Annual Sales for Offeror's most recently completed fiscal year	
1.10.	Show number of full-time employees, on average, during the m	nost recent fiscal year
1.11.	Is your company at least 51% owned and controlled by individual please check the category that applies:	duals in one of the following categories? If "Yes,"
	1.11.1. Minority (30 ILCS 575/2(A)(1) & (3))	Yes
	1.11.2. Female (30 ILCS 575/2(A)(2) & (4))	Yes
	1.11.3. Person with Disability (30 ILCS 575/2(A)(2.05) & (2.1))	Yes
	1.11.4. Disadvantaged (49 CFR 26)	Yes
	1.11.5. Veteran (30 ILCS 500/45-57)	Yes

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RETURN WITH BID

STATE OF ILLINOIS

ILLINOIS DEPARTMENT OF HUMAN RIGHTS PUBLIC CONTRACT NUMBER

2.1.	If Offeror employed fifteen or more full-time employees at the time of submission of their response to this
	solicitation or any time during the previous 365-day period leading up to submission, it must have a current
	IDHR Public Contract Number or have proof of having submitted a completed application for one prior to the
	solicitation opening date. 775 ILCS 5/2-101. If the Agency/University cannot confirm compliance, it will not be
	able to consider a Vendor's bid or offer. Please complete the appropriate sections below:

Name of Company (and DBA):
(check if applicable) The number is not required as the company has not met or exceeded the number of employees that makes registration necessary under the requirements of the Human Rights Act described above.
IDHR Public Contracts Number: Expiration Date: .

- 2.2. If number has not yet been issued, provide the date a completed application for the number was submitted to IDHR:
- 2.3. Upon expiration and until their Contractor Identification Number is renewed, companies will not be eligible to be awarded contracts by the State of Illinois or other jurisdictions that require a current IDHR number as a condition of contract eligibility. 44 ILL. ADM. CODE 750.210(a).
- 2.4. Numbers issued by the Department of Human Rights (or its predecessor agency, the Illinois Fair Employment Practices Commission) prior to July 1, 1998 are no longer valid. This affects numbers below 89999-00-0. Valid numbers begin with 900000-00-0.
- 2.5. If Offeror's organization holds an expired number, it must re-register with the Department of Human Rights.
- 2.6. Offeror may obtain an application form by:
 - 2.6.1. Telephone: Call the IDHR Public Contracts Unit at (312) 814-2431 between Monday and Friday, 8:30 AM 5:00 PM, CST. (TDD (312) 263-1579).
 - 2.6.2. Internet: You may download the form from the Department of Human Rights' website at (http://www2.illinois.gov/dhr/PublicContracts/Pages/default.aspx).
 - 2.6.3. Mail: Write to the Department of Human Rights, Public Contracts Unit, 100 West Randolph Street, Suite 10-100, Chicago, IL 60601.

Document 00 41 09 – Certifications and Disclosures

RETURN WITH BID

STATE OF ILLINOIS

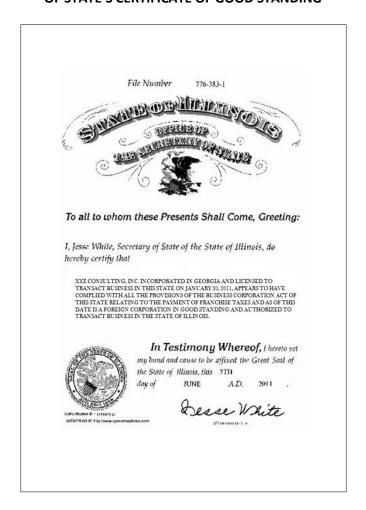
AUTHORIZED TO TRANSACT BUSINESS OR CONDUCT AFFAIRS IN ILLINOIS

3. A person, other than an individual acting as a sole proprietor, must be a duly constituted legal entity and authorized to transact business or conduct affairs in Illinois prior to submitting an offer. 30 ILCS 500/20-43. Offerors must review and complete certification #4.32 in the Standard Certifications found in Forms A, Part 4.

Certification #4.32 requires Vendor to check one of the two boxes representing its status. The State may request evidence from a vendor that certifies it is authorized to do business in Illinois proving such authorization. Failure to produce evidence in a timely manner may be considered grounds for determining Vendor non-responsive or not responsible.

For information on registering to transact business or conduct affairs in Illinois, please visit the Illinois Secretary of State's Department of Business Services at their website at (http://cyberdriveillinois.com/departments/business_services/home.html) or your home county clerk.

EVIDENCE OF BEING AUTHORIZED TO TRANSACT BUSINESS OR CONDUCT AFFAIRS IS THE SECRETARY OF STATE'S CERTIFICATE OF GOOD STANDING



Document 00 41 09 - Certifications and Disclosures

RETURN WITH BID STATE OF ILLINOIS STANDARD CERTIFICATIONS

Vendor acknowledges and agrees that compliance with this subsection in its entirety for the term of the contract and any renewals is a material requirement and condition of this contract. By executing this contract Vendor certifies compliance with this subsection in its entirety, and is under a continuing obligation to remain in compliance and report any non-compliance.

This subsection, in its entirety, applies to subcontractors used on this contract. Vendor shall include these Standard Certifications in any subcontract used in the performance of the contract using the Standard Certification form provided by the State.

If this contract extends over multiple fiscal years, including the initial term and all renewals, Vendor and its subcontractors shall confirm compliance with this section in the manner and format determined by the State by the date specified by the State and in no event later than July 1 of each year that this contract remains in effect.

If the Parties determine that any certification in this section is not applicable to this contract it may be stricken without affecting the remaining subsections.

- 4.1. As part of each certification, Vendor acknowledges and agrees that should Vendor or its subcontractors provide false information, or fail to be or remain in compliance with the Standard Certification requirements, one or more of the following sanctions will apply:
 - the contract may be void by operation of law,
 - the State may void the contract, and
 - the Vendor and it subcontractors may be subject to one or more of the following: suspension, debarment, denial of payment, civil fine, or criminal penalty.

Identifying a sanction or failing to identify a sanction in relation to any of the specific certifications does not waive imposition of other sanctions or preclude application of sanctions not specifically identified.

- 4.2. Vendor certifies it and its employees will comply with applicable provisions of the United States Civil Rights Act, Section 504 of the Federal Rehabilitation Act, the Americans with Disabilities Act, and applicable rules in performance of this contract.
- 4.3. Vendor, if an individual, sole proprietor, partner or an individual as member of a LLC, certifies he/she is not in default on an educational loan. 5 ILCS 385/3.
- 4.4. Vendor, if an individual, sole proprietor, partner or an individual as member of a LLC, certifies it he/she has not received (i) an early retirement incentive prior to 1993 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code or (ii) an early retirement incentive on or after 2002 under Section 14-108.3 or 16-133.3 of the Illinois Pension Code. 30 ILCS 105/15a; 40 ILCS 5/14-108.3; 40 ILCS 5/16-133.

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STATE OF ILLINOIS STANDARD CERTIFICATIONS

- 4.5. Vendor certifies that it is a legal entity authorized to do business in Illinois prior to submission of a bid, offer, or proposal. 30 ILCS 500/1-15.80, 20-43.
- 4.6. To the extent there was a current Vendor providing the services covered by this contract and the employees of that Vendor who provided those services are covered by a collective bargaining agreement, Vendor certifies (i) that it will offer to assume the collective bargaining obligations of the prior employer, including any existing collective bargaining agreement with the bargaining representative of any existing collective bargaining unit or units performing substantially similar work to the services covered by the contract subject to its bid or offer; and (ii) that it shall offer employment to all employees currently employed in any existing bargaining unit who perform substantially similar work to the work that will be performed pursuant to this contract. This does not apply to heating, air conditioning, plumbing and electrical service contracts. 30 ILCS 500/25-80.
- 4.7. Vendor certifies it has neither been convicted of bribing or attempting to bribe an officer or employee of the State of Illinois or any other State, nor made an admission of guilt of such conduct that is a matter of record. 30 ILCS 500/50-5.
- 4.8. If Vendor has been convicted of a felony, Vendor certifies at least five years have passed after the date of completion of the sentence for such felony, unless no person held responsible by a prosecutor's office for the facts upon which the conviction was based continues to have any involvement with the business. 30 ILCS 500/50-10.
- 4.9. If Vendor or any officer, director, partner, or other managerial agent of Vendor has been convicted of a felony under the Sarbanes-Oxley Act of 2002, or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953, Vendor certifies at least five years have passed since the date of the conviction. Vendor further certifies that it is not barred from being awarded a contract and acknowledges that the State shall declare the contract void if this certification is false. 30 ILCS 500/50-10.5.
- 4.10. Vendor certifies it is not barred from having a contract with the State based upon violating the prohibitions related to either submitting/writing specifications or providing assistance to an employee of the State of Illinois by reviewing, drafting, directing, or preparing any invitation for bids, a request for proposal, or request of information, or similar assistance (except as part of a public request for such information). 30 ILCS 500/50-10.5(e), *amended* by Pub. Act No. 97-0895 (August 3, 2012).
- 4.11. Vendor certifies that it and its affiliates are not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Vendor and its affiliates acknowledge the State may declare the contract void if this certification is false or if Vendor or an affiliate later becomes delinquent and has not entered into a deferred payment plan to pay off the debt. 30 ILCS 500/50-11. 50-60.
- 4.12. Vendor certifies that it and all affiliates shall collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with provisions of the Illinois Use Tax Act and acknowledges that failure to comply may result in the contract being declared void. 30 ILCS 500/50-12.

Document 00 41 09 – Certifications and Disclosures

RETURN WITH BID

STATE OF ILLINOIS STANDARD CERTIFICATIONS

- 4.13. Vendor certifies that it has not been found by a court or the Pollution Control Board to have committed a willful or knowing violation of the Environmental Protection Act within the last five years, and is therefore not barred from being awarded a contract. 30 ILCS 500/50-14.
- 4.14. Vendor certifies it has neither paid any money or valuable thing to induce any person to refrain from bidding on a State contract, nor accepted any money or other valuable thing, or acted upon the promise of same, for not bidding on a State contract. 30 ILCS 500/50-25.
- 4.15. Vendor certifies it is not in violation of the "Revolving Door" provisions of the Illinois Procurement Code. 30 ILCS 500/50-30.
- 4.16. Vendor certifies that it has not retained a person or entity to attempt to influence the outcome of a procurement decision for compensation contingent in whole or in part upon the decision or procurement. 30 ILCS 500/50-38.
- 4.17. Vendor certifies that if it has hired a person required to register under the Lobbyist Registration Act to assist in obtaining any State contract, that none of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration were billed to the State. 30 ILCS 500\50-38.
- 4.18. Vendor certifies it will report to the Illinois Attorney General and the Chief Procurement Officer any suspected collusion or other anti-competitive practice among any bidders, offerors, contractors, proposers, or employees of the State. 30 ILCS 500/50-40, 50-45, 50-50.
- 4.19. Vendor certifies steel products used or supplied in the performance of a contract for public works shall be manufactured or produced in the United States, unless the executive head of the procuring Agency/University grants an exception. 30 ILCS 565.
- 4.20. Drug Free Workplace
 - 4.20.1. If Vendor employs 25 or more employees and this contract is worth more than \$5,000, Vendor certifies it will provide a drug free workplace pursuant to the Drug Free Workplace Act.
 - 4.20.2. If Vendor is an individual and this contract is worth more than \$5000, Vendor certifies it shall not engage in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance during the performance of the contract. 30 ILCS 580.
- 4.21. Vendor certifies that neither Vendor nor any substantially owned affiliate is participating or shall participate in an international boycott in violation of the U.S. Export Administration Act of 1979 or the applicable regulations of the United States. Department of Commerce. 30 ILCS 582.
- 4.22. Vendor certifies it has not been convicted of the offense of bid rigging or bid rotating or any similar offense of any state or of the United States. 720 ILCS 5/33 E-3, E-4.

Document 00 41 09 - Certifications and Disclosures

RETURN WITH BID

STATE OF ILLINOIS STANDARD CERTIFICATIONS

- 4.23. Vendor certifies it complies with the Illinois Department of Human Rights Act and rules applicable to public contracts, which include providing equal employment opportunity, refraining from unlawful discrimination, and having written sexual harassment policies. 775 ILCS 5/2-105.
- 4.24. Vendor certifies it does not pay dues to or reimburse or subsidize payments by its employees for any dues or fees to any "discriminatory club." 775 ILCS 25/2.
- 4.25. Vendor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been or will be produced in whole or in part by forced labor or indentured labor under penal sanction. 30 ILCS 583.
- 4.26. Vendor certifies that no foreign-made equipment, materials, or supplies furnished to the State under the contract have been produced in whole or in part by the labor of any child under the age of 12. 30 ILCS 584.
- 4.27. Vendor certifies that any violation of the Lead Poisoning Prevention Act, as it applies to owners of residential buildings, has been mitigated. 410 ILCS 45.
- 4.28. Vendor warrants and certifies that it and, to the best of its knowledge, its subcontractors have and will comply with Executive Order No. 1 (2007). The Order generally prohibits Vendors and subcontractors from hiring the then-serving Governor's family members to lobby procurement activities of the State, or any other unit of government in Illinois including local governments if that procurement may result in a contract valued at over \$25,000. This prohibition also applies to hiring for that same purpose any former State employee who had procurement authority at any time during the one-year period preceding the procurement lobbying activity.
- 4.29. Vendor certifies that information technology, including electronic information, software, systems and equipment, developed or provided under this contract comply with the applicable requirements of the Illinois Information Technology Accessibility Act Standards as published at (www.dhs.state.il.us/iitaa) 30 ILCS 587.
- 4.30. Vendor certifies that it has read, understands, and is in compliance with the registration requirements of the Elections Code (10 ILCS 5/9-35) and the restrictions on making political contributions and related requirements of the Illinois Procurement Code. 30 ILCS 500/20-160 and 50-37. Vendor will not make a political contribution that will violate these requirements.

In accordance with section 20-160 of the Illinois Procurement Code, Vendor certifies as applicable:

☐ Vendor is not required to register as a business entity with the State Board of Elections.
or
☐ Vendor has registered with the State Board of Elections. As a registered business entity, Vendor acknowledges a continuing duty to update the registration as required by the Act.

Document 00 41 09 - Certifications and Disclosures

RETURN WITH BID

STATE OF ILLINOIS STANDARD CERTIFICATIONS

- 4.31. Vendor certifies that if it is awarded a contract through the use of the preference required by the Procurement of Domestic Products Act, then it shall provide products pursuant to the contract or a subcontract that are manufactured in the United States. 30 ILCS 517.
- 4.32. A person (other than an individual acting as a sole proprietor) must be a duly constituted legal entity and authorized to transact business or conduct affairs in Illinois prior to submitting a bid or offer. 30 ILCS 500/20-43. If you do not meet these criteria, then your bid or offer will be disqualified.

Vendor must make one of the following two certifications by checking the appropriate box.

- A. Uvendor certifies it is an individual acting as a sole proprietor and is therefore not subject to the requirements of section 20-43 of the Procurement Code.
- 4.33. Vendor certifies that, for the duration of this contract it will:
 - post its employment vacancies in Illinois and border states on the Department of Employment Security's IllinoisJobLink.com website or its successor system; or
 - will provide an online link to these employment vacancies so that this link is accessible through the IllinoisJobLink.com website it successor system; or
 - is exempt from 20 ILCS 1005/1005-47 because the contract is for construction-related services as that term is defined in section 1-15.20 of the Procurement Code; or the contract is for construction and vendor is a party to a contract with a bona fide labor organization and performs construction. (20 ILCS 1005/1005-47).

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RETURN WITH BID

STATE OF ILLINOIS

STATE BOARD OF ELECTIONS

5. Section 50-37 of the Illinois Procurement Code prohibits political contributions of certain vendors, bidders and offerors. Additionally, section 9-35 of the Illinois Election Code governs provisions relating to reporting and making contributions to state officeholders, declared candidates for State offices and covered political organizations that promote the candidacy of an officeholder or declared candidate for office. The State may declare any resultant contract void if these Acts are violated.

Generally, if a vendor, bidder, or offeror is an entity doing business for profit (i.e. sole proprietorship, partnership, corporation, limited liability company or partnership, or otherwise) and has contracts with State agencies that annually total more than \$50,000 or whose aggregate pending bids or proposals and current State contracts that total more than \$50,000, the vendor, bidder, or offeror is prohibited from making political contributions and must register with the State Board of Elections. 30 ILCS 500/20-160.

EVIDENCE OF REGISTRATION WITH THE STATE BOARD OF ELECTIONS IS THE CERTIFICATE OF REGISTRATION



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STATE OF ILLINOIS

DISCLOSURE OF BUSINESS OPERATIONS WITH IRAN

- 6. In accordance with 30 ILCS 500/50-36, each bid, offer, or proposal submitted for a State contract, other than a small purchase defined in Section 20-20 of the Illinois Procurement Code, will include a disclosure of whether or not the bidder, offeror, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran and:
 - more than 10% of the company's revenues produced in or assets located in Iran involve oil-related
 activities or mineral-extraction activities; less than 75% of the company's revenues produced in or assets
 located in Iran involve contracts with or provision of oil-related or mineral extraction products or
 services to the Government of Iran or a project or consortium created exclusively by that Government;
 and the company has failed to take substantial action; or
 - the company has, on or after August 5, 1996, made an investment of \$20 million or more, or any combination of investments of at least \$10 million each that in the aggregate equals or exceeds \$20 million in any 12- month period that directly or significantly contributes to the enhancement of Iran's ability to develop petroleum resources of Iran.

A bid or offer that does not include this disclosure may be given a period after the bid or offer is submitted to cure non-disclosure. A chief procurement officer may consider the disclosure when evaluating the bid or offer or awarding the contract.

There are no business operations that must be disclosed to comply with the above cited law.	
☐ The following business operations are disclosed to comply with the above cited law:	

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STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

The Financial Disclosures and Conflicts of Interest form ("form") must be accurately completed and submitted by the vendor, parent entity(ies), and subcontractors. There are **nine** steps to this form and each must be completed as instructed in the step heading and within the step. A bid or offer that does not include this form shall be considered non-responsive. The Agency/University will consider this form when evaluating the bid or offer or awarding the contract.

The requirement of disclosure of financial interests and conflicts of interest is a continuing obligation. If circumstances change and the disclosure is no longer accurate, then disclosing entities must provide an updated form.

Separate forms are required for the vendor, parent entity(ies), and subcontractors.

This disclosure is submitted for:	
☐ Vendor	
☐ Vendor's Parent Entity(ies) (100% ownership)	
Subcontractor(s) >\$50,000 (annual value)	
Subcontractor's Parent Entity(ies) (100% ownership) > \$50,000 (annual value)	
Project Name	
Illinois Procurement Bulletin Number	
Contract Number	
Vendor Name	
Doing Business As (DBA)	
Disclosing Entity	
Disclosing Entity's Parent Entity	
Subcontractor	
Instrument of Ownership or Beneficial Interest	Choose an item. If you selected Other, please describe:

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RETURN WITH BID STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

STEP 1

SUPPORTING DOCUMENTATION SUBMITTAL

(All vendors complete regardless of annual bid, offer, or contract value) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

You must select one of the six options below and select the documentation you are submitting. You must provide the documentation that the applicable section requires with this form.

☐ Option 1 – Publicly Traded Entities 1.A. ☐ Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% (\$106,447.20) of the annual salary of the Governor. OR
1.B. Attach a copy of the Federal 10-K or provide a web address of an electronic copy of the Federa 10-K, and skip to Step 3.
Option 2 – Privately Held Entities with more than 100 Shareholders
2.A. Complete Step 2, Option A for each qualifying individual or entity holding any ownership of distributive income share in excess of 5% or an amount greater than 60% (\$106,447.20) of the annual salary of the Governor.
OR
2.B. Complete Step 2, Option A for each qualifying individual or entity holding any ownership share in excess of 5% and attach the information Federal 10-K reporting companies are required to report under 17 CFR 229.401.
Option 3 – All other Privately Held Entities, not including Sole Proprietorships
3.A. Complete Step 2, Option A for each qualifying individual or entity holding any ownership or distributive income share in excess of 5% or an amount greater than 60% (\$106,447.20) of the annual salary of the Governor.
Option 4 – Foreign Entities
4.A. Complete Step 2, Option A for each qualifying individual or entity holding any ownership of distributive income share in excess of 5% or an amount greater than 60% (\$106,447.20) of the annual salary of the Governor.
OR
4.B. Attach a copy of the Securities Exchange Commission Form 20-F or 40-F and skip to Step 3.
Option 5 – Not-for-Profit Entities
Complete Step 2, Option B.
☐ Option 6 – Sole Proprietorships ☐ Skip to Step 3.

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RETURN WITH BID STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

STEP 2

DISCLOSURE OF FINANCIAL INTEREST OR BOARD OF DIRECTORS

(All vendors, except sole proprietorships, must complete regardless of annual bid, offer, or contract value) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

Complete either Option A (for all entities other than not-for-profits) or Option B (for not-for-profits). Additional rows may be inserted into the tables or an attachment may be provided if needed.

OPTION A – Ownership	Share and Distributive Incom	me							
-	their percentage of ownership		vide the name and address of each s 5%, or the dollar value of their						
Check here if including below.	g an attachment with request	ed information in a format	substantially similar to the format						
TABLE – X									
Name	Address	Percentage of Ownership	\$ Value of Ownership						
Distributive Income – If you selected Option 1.A., 2.A., 3.A., or 4.A. in Step 1, provide the name and address of each individual or entity and their percentage of the disclosing vendor's total distributive income if said percentage exceeds 5% of the total distributive income of the disclosing entity, or the dollar value of their distributive income if said dollar value exceeds \$106,447.20. Check here if including an attachment with requested information in a format substantially similar to the format below.									
TABLE – Y									
Name	Address	% of Distributive Income	\$ Value of Distributive Income						

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STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

Please certify that the following statements are true.

I have disclosed all individuals \$106,447.20.	or entities that hold an owner	ership interest of greater than 5% or greater than
Yes No		
I have disclosed all individuals of than \$106,447.20 or greater that		o receive distributive income in an amount greater income of the disclosing entity.
Yes No		
OPTION B – Disclosure of Board of I	Directors (Not-for-Profits)	
If you selected Option 5 in Step 1, list m	embers of your board of direc	tors. Please include an attachment if necessary.
TABLE – Z		
Name	Address	
	STEP 3	
	CLOSURE OF LOBBYIS	
	if bid, offer, or contract has an subcontract annual value of m	annual value over \$50,000) ore than \$50,000 must complete)
Yes No. Is your company repre Registration Act (lobbyist must be regis identified through Step 2, Option A abo	esented by or do you employ stered pursuant to the Act with we and who has communicated byee concerning the bid or off	a lobbyist required to register under the Lobbyist h the Secretary of State) or other agent who is not d, is communicating, or may communicate with any er? If yes, please identify each lobbyist and agent,
If you have a lobbyist that does not med	et the criteria, then you do not	have to disclose the lobbyist's information.
Name	Address	Relationship to Disclosing Entity
	L	
Describe all costs/fees/compensation, lobbyist or other agent to obtain this Ag		the assistance provided by each representative

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RETURN WITH BID STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

STEP 4

PROHIBITED CONFLICTS OF INTEREST

(All vendors must complete regardless of annual bid, offer, or contract value) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

Step 4 must be completed for each person disclosed in Step 2, Option A and for sole proprietors identified in Step 1,

Optic	n 6 above. Please provide the name of the person for which responses are provided:	
1.	Do you hold or are you the spouse or minor child who holds an elective office in the State of Illinois or hold a seat in the General Assembly?	Yes No
2.	Have you, your spouse, or minor child been appointed to or employed in any offices or agencies of State government and receive compensation for such employment in excess of 60% (\$106,447.20) of the salary of the Governor?	Yes No
3.	Are you or are you the spouse or minor child of an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority?	Yes No
4.	Have you, your spouse, or an immediate family member who lives in your residence currently or who lived in your residence within the last 12 months been appointed as a member of a board, commission, authority, or task force authorized or created by State law or by executive order of the Governor?	Yes No
5.	If you answered yes to any question in 1-4 above, please answer the following: Do you, your spouse, or minor child receive from the vendor more than 7.5% of the vendor's total distributable income or an amount of distributable income in excess of the salary of the Governor (\$177,412.00)?	Yes No
6.	If you answered yes to any question in 1-4 above, please answer the following: Is there a combined interest of self with spouse or minor child more than 15% in the aggregate of the vendor's distributable income or an amount of distributable income in excess of two times the salary of the Governor (\$354,824.00)?	Yes No

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RETURN WITH BID STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

STEP 5

POTENTIAL CONFLICTS OF INTEREST RELATING TO PERSONAL RELATIONSHIPS

(Complete only if bid, offer, or contract has an annual value over \$50,000) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

Step 5 must be completed for each person disclosed in Step 2, Option A and for sole proprietors identified in Step 1, Option 6 above.

Pleas	e provide the name of the person for which responses are provided:	
1.	Do you currently have, or in the previous 3 years have you had State employment, including contractual employment of services?	Yes No
2.	Has your spouse, father, mother, son, or daughter, had State employment, including contractual employment for services, in the previous 2 years?	Yes No
3.	Do you hold currently or have you held in the previous 3 years elective office of the State of Illinois, the government of the United States, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois?	Yes No
4.	Do you have a relationship to anyone (spouse, father, mother, son, or daughter) holding elective office currently or in the previous 2 years?	Yes No
5.	Do you hold or have you held in the previous 3 years any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of expenses incurred in the discharge of that office?	☐ Yes ☐ No
6.	Do you have a relationship to anyone (spouse, father, mother, son, or daughter) holding appointive office currently or in the previous 2 years?	Yes No
7.	Do you currently have or in the previous 3 years had employment as or by any registered lobbyist of the State government?	Yes No
8.	Do you currently have or in the previous 2 years had a relationship to anyone (spouse, father, mother, son, or daughter) that is or was a registered lobbyist?	Yes No
9.	Do you currently have or in the previous 3 years had compensated employment by any registered election or re-election committee registered with the Secretary of State or any county clerk in the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections?	Yes No

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RETURN WITH BID STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

10.	Do you currently have or in the previous 2 years had a relationship to anyone (spouse,	Yes No
	father, mother, son, or daughter) who is or was a compensated employee of any registered	
	election or reelection committee registered with the Secretary of State or any county clerk in	
	the State of Illinois, or any political action committee registered with either the Secretary of	
	State or the Federal Board of Elections?	

STEP 6 EXPLANATION OF AFFIRMATIVE RESPONSES

(All vendors must complete regardless of annual bid, offer, or contract value) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

If you answered "Yes" in Step 4 or Step 5, please provide on an additional page a detailed explanation that includes, but is not limited to the name, salary, State agency or university, and position title of each individual.

STEP 7 POTENTIAL CONFLICTS OF INTEREST RELATING TO DEBARMENT & LEGAL PROCEEDINGS

(Complete only if bid, offer, or contract has an annual value over \$50,000) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

This step must be completed for each person disclosed in Step 2, Option A, Step 3, and for each entity and sole proprietor disclosed in Step 1.

лорі	ictor disclosed in Step 1.	
Please	e provide the name of the person or entity for which responses are provided:	
1.	Within the previous ten years, have you had debarment from contracting with any governmental entity?	Yes No
2.	Within the previous ten years, have you had any professional licensure discipline?	Yes No
3.	Within the previous ten years, have you had any bankruptcies?	Yes No
4.	Within the previous ten years, have you had any adverse civil judgments and administrative findings?	Yes No
5.	Within the previous ten years, have you had any criminal felony convictions?	Yes No
-	answered "Yes", please provide a detailed explanation that includes, but is not limited to the name versity, and position title of each individual.	ne, State agency

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 09 – Certifications and Disclosures**

RETURN WITH BID

STATE OF ILLINOIS

FINANCIAL DISCLOSURES AND CONFLICTS OF INTEREST

STEP 8

DISCLOSURE OF CURRENT AND PENDING CONTRACTS

(Complete only if bid, offer, or contract has an annual value over \$50,000) (Subcontractors with subcontract annual value of more than \$50,000 must complete)

	1, 2, 3, 4, or 6 in Ste			g contracts, bids, proposals, is government?
Yes No.				
If "Yes", please specify needed.	below. Additional rows	may be inserted into	the table or an atta	achment may be provided if
Agency/University	Project Title	Status	Value	Contract Reference/P.O./Illinois Procurement Bulletin #
Please explain the proc	urement relationship:		-	
		STEP 9		
	SIG	N THE DISCLOSU	IRE	
	All vendors must complete ontractors with subcontra			
This disclosure is signe employee on behalf of	ed, and made under per	nalty of perjury for all uant to Sections 50-13 a	for-profit entities,	by an authorized officer or nois Procurement Code. This
Name of Disclosing Enti	ty:			
Signature:			Date:	
Printed Name:				
Title:				
Phone Number:				
Email Address:				

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RETURN WITH BID

STATE OF ILLINOIS CERTIFICATIONS AND DISCLOSURES

I certify that:

The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and

I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and

I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business and the owner's SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's name on the name line and the D/B/A on the business name line and enter the owner's SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.

Name:	
Business Name:	
Taxpayer Identification Number: Social Security Number: or Employer Identification Number:	
Legal Status (check one):	
☐ Individual	Governmental
Sole Proprietor	Nonresident alien
Partnership	Estate or trust
Legal Services Corporation	Pharmacy (Non-Corp.)
Tax-exempt	Pharmacy/Funeral Home/Cemetery (Corp.)
Corporation providing or billing	Limited Liability Company
medical and/or health care services	(select applicable tax classification)
Corporation NOT providing or billing	D = disregarded entity
medical and/or health care services	C = corporation
	P = partnership
Signature of Authorized Representative:	
Date:	

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 09 – Certifications and Disclosures**

RETURN WITH BID

STATE OF ILLINOIS

CERTIFICATIONS AND DISCLOSURES

FORMS B

*This Forms B section may be used when responding to an Invitation for Bid (IFB) or a Request for Proposal (RFP) using a current registration in the Illinois Procurement Gateway (IPG). If the bidder does not use Forms B, then Forms A shall be submitted with bid.

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RETURN WITH BID

STATE OF ILLINOIS CERTIFICATIONS AND DISCLOSURES

This Forms B may be used when responding to an Invitation for Bid (IFB) or a Request for Proposal (RFP) if the vendor is registered in the Illinois Procurement Gateway (IPG) and has a valid IPG Registration Number.

If a vendor does not have a valid IPG registration number, then the vendor must complete and submit Forms A with their response. Failure to do so may render the submission non-responsive and result in disqualification.

Please read this entire section and provide the requested information as applicable. All parts in Forms B must be completed in full and submitted along with the vendor's response.

1. Certification of Illinois Procurement Gateway Registration

My business has a valid Illinois Procurement Gateway (IPG) registration. The State of Illinois Chief Procurement Office approved the registration and provided the IPG registration number and expiration date disclosed in this Forms B. To ensure that you have a valid registration in the IPG, search for your business name in the IPG Registered Vendor Directory. If your company does not appear in the search results, then you do not have a valid IPG registration. IPG Registration #: _____ IPG Expiration Date: _____ **Certification Timely to this Solicitation or Contract** Vendor certifies it is not barred from having a contract with the State based upon violating the prohibitions related to either submitting/writing specifications or providing assistance to an employee of the State of Illinois by reviewing, drafting, directing, or preparing any invitation for bids, a request for proposal, or request of information, or similar assistance (except as part of a public request for such information). 30 ILCS 500/50-10.5(e), amended by Public Act No. 97-0895 (August 3, 2012). Yes No. Replacement Certification to IPG Certification #6 (supersedes response in IPG) If Vendor has been convicted of a felony, Vendor certifies at least five years have passed since the date of completion of the sentence for such felony, unless no person held responsible by a prosecutor's office for the facts upon which the conviction was based continues to have any involvement with the business. Vendor further certifies that it is not barred from being awarded a contract. 30 ILCS 500/50-10. Yes No Disclosure of Lobbyist or Agent (Complete only if bid, offer, or contract has an annual value over \$50,000) Is your company or parent entity(ies) represented by or do you or your parent entity(ies) employ a lobbyist required to register under the Lobbyist Registration Act (lobbyist must be registered pursuant to the Act with the Secretary of State) or an agent who has communicated, is communicating, or may communicate with any State/Public University officer or employee concerning the bid or offer? If yes, please identify each lobbyist and agent, including the name and address below. Yes No

If yes, please identify each lobbyist and agent, including the name and address below. If you have a lobbyist that does not meet the criteria, then you do not have to disclose the lobbyist's information. Additional rows may be inserted into the table or an attachment may be provided if needed.

2.

3.

4.

BIDDING & CONTRACT REQUIREMENTS **Document 00 41 09 – Certifications and Disclosures**

RETURN WITH BID

STATE OF ILLINOIS

CERTIFICATIONS AND DISCLOSURES

Name		Address		Relationship to D	Relationship to Disclosing Entity							
	D		/	and the other control	· · · · · · · · · · · · · · · · · · ·							
		costs/fees/compensation/ e lobbyist or other agent to			ance provided by each							
5. Disclosure of Current and Pending Contracts												
	Complete only if: (a) your business is for-profit and (b) the bid, offer, or contract has an annual value over											
	\$50,000. Do not complete if you are a not-for-profit entity.											
	Yes No. Do you have any contracts, pending contracts, bids, proposals, subcontracts, leases or other ongoing procurement relationships with units of State of Illinois government?											
	· · · · · · · · · · · · · · · · · · ·	se specify below. Additionate provided if needed.	al rows may be inserte	d into the table or a	n attachment in the same							
Agen	cy/University	Project Title	Status	Value	Contract							
					Reference/P.O./Illinois Procurement Bulletin #							
6.	Signature As of the date	signed below, I certify that:	:									
	 My busine accurate. 	ess' information and the ce	rtifications made in the	Illinois Procuremen	t Gateway are truthful and							
	The certification	ications and disclosures mad	de in this Forms B are tr	uthful and accurate.								
Section	s 50-13 and 5	d by an authorized officer 50-35 of the Illinois Procunder penalty of perjury.			•							
This dis	closure inform	ation is submitted on behal	f of:									
Vendor	Name:		Phone:									
Street A	Address:		Email:	Email:								
City, Sta	ate, Zip:		Vendor (Contact:								
Signatu	re:		[Date:								
Printed	Name:											
Title:												

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STATE OF ILLINOIS CERTIFICATIONS AND DISCLOSURES

I certify that:

The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and

I am a U.S. person (including a U.S. resident alien).

- If you are an individual, enter your name and SSN as it appears on your Social Security Card.
- If you are a sole proprietor, enter the owner's name on the name line followed by the name of the business and the owner's SSN or EIN.
- If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's name on the name line and the D/B/A on the business name line and enter the owner's SSN or EIN.
- If the LLC is a corporation or partnership, enter the entity's business name and EIN and for corporations, attach IRS acceptance letter (CP261 or CP277).
- For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.

Name:	
Business Name:	
Taxpayer Identification Number:	
Social Security Number:	
or	
Employer Identification Number:	
Legal Status (check one):	
☐ Individual	Governmental
Sole Proprietor	Nonresident alien
Partnership	Estate or trust
Legal Services Corporation	Pharmacy (Non-Corp.)
☐ Tax-exempt	Pharmacy/Funeral Home/Cemetery (Corp.)
Corporation providing or billing	Limited Liability Company
medical and/or health care services	(select applicable tax classification)
Corporation NOT providing or billing	D = disregarded entity
medical and/or health care services	C = corporation
	P = partnership
Signature of Authorized Representative:	
Date:	

END 00 41 09

1. PREVAILING WAGE ACT

Contractor shall not pay less than the prevailing rates of wages to all laborers, workmen, and mechanics performing work under this contract, and shall comply with the requirements of the Illinois Wages of Employees on Public Works Act(820 ILCS 130/1-12).

END 00 43 43.

Effective Date	County	Trade Title	Region	Туре	Class	Base Wage	Foreman Wage	OT M-F	OT Sa	OT Su	OT Hol	H/W	Pension	Vacation	Training	Other Fringe Benefit
8/15/2018	McDonough	ASBESTOS ABT-GEN	All	BLD		29.08	30.83	1.5	1.5	2	2	9.25	14	0	0.8	0
8/15/2018	McDonough	ASBESTOS ABT-GEN	All	HWY		29.5	31	1.5	1.5	2	2	9.25	14.67	0	0.8	0
8/15/2018	McDonough	ASBESTOS ABT-MEC	ALL	BLD		23.4	24.4	1.5	1.5	2	2	6.8	5.5	0	0.5	
11/23/2018	McDonough	BOILERMAKER	All	BLD		40	43	2	2	2	2	7.07	18.19	0	0.4	0
4/5/2019	McDonough	BRICK MASON	All	BLD		30.29	31.8	1.5	1.5	2	2	9.1	11.18	0	0.85	0
1/11/2019	McDonough	CARPENTER	All	BLD		33.02	35.27	1.5	1.5	2	2	8.55	17.5	0	0.54	0
4/5/2019	McDonough	CARPENTER	All	HWY		35.76	38.01	1.5	1.5	2	2	8.55	17.5	0	0.52	0
2/8/2019	McDonough	CEMENT MASON	All	BLD		29	30.5	1.5	1.5	2	2	9.1	12.98	0	0.57	0
1/18/2019	McDonough	CEMENT MASON	All	HWY		29	30.25	1.5	1.5	2	2	9.1	13.26	0	0.65	0
8/15/2018	McDonough	CERAMIC TILE FNSHER	All	BLD		31.03	31.03	1.5	1.5	2	2	9.1	8.71	0	0.15	0
8/15/2018	McDonough	ELECTRIC PWR EQMT OP	All	ALL		45.09	56.52	1.5	1.5	2	2	7.1	12.62	0	0.45	0
8/15/2018	McDonough	ELECTRIC PWR GRNDMAN	All	ALL		30.81	56.52	1.5	1.5	2	2	6.67	8.62	0	0.31	0
8/15/2018	McDonough	ELECTRIC PWR LINEMAN	All	ALL		50.11	56.52	1.5	1.5	2	2	7.25	14.03	0	0.5	0
8/15/2018	McDonough	ELECTRIC PWR TRK DRV	All	ALL		32.32	56.52	1.5	1.5	2	2	6.72	9.05	0	0.32	0
4/5/2019	McDonough	ELECTRICIAN	N	BLD		32	34.5	1.5	1.5	2	2	7.35	11.73	0	0.8	0
8/15/2018	McDonough	ELECTRICIAN	S	BLD		30.41	32.91	1.5	1.5	2	2	7.3	9.62	0	0.8	0
8/15/2018	McDonough	ELECTRONIC SYS TECH	All	BLD		28.25	30.25	1.5	1.5	2	2	7.35	12	0	0.4	0
8/15/2018	McDonough	ELEVATOR CONSTRUCTOR	All	BLD		44.78	50.38	2	2	2	2	15.43	16.61	3.58	0.61	0
8/15/2018	McDonough	GLAZIER	All	BLD		35.37	37.37	1.5	1.5	1.5	2	11.85	8.3	0	1.25	0
4/5/2019	McDonough	HT/FROST INSULATOR	All	BLD		30.41	31.61	1.5	1.5	2	2	6.35	12.8	0	1.1	0
4/5/2019	McDonough	IRON WORKER	All	ALL		26.25	28.5	1.5	1.5	2	2	8.13	14.37	0	0.6	0
4/5/2019	McDonough	LABORER	All	BLD		27.58	29.33	1.5	1.5	2	2	9.25	14	0	0.8	0
4/5/2019	McDonough	LABORER	All	HWY		28.5	30	1.5	1.5	2	2	9.25	14.67	0	0.8	0
8/15/2018	McDonough	LATHER	All	BLD		33.02	35.27	1.5	1.5	2	2	8.55	17.5	0	0.54	0
8/15/2018	McDonough	MACHINIST	All	BLD		48.38	50.88	1.5	1.5	2	2	7.23	8.95	1.85	1.47	0
8/15/2018	McDonough	MARBLE FINISHERS	ALL	BLD		30.48	30.48	1.5	1.5	2	2	8.57	8.58	0	0.1	
8/15/2018	McDonough	MARBLE MASON	All	BLD		30.29	31.8	1.5	1.5	2	2	9.1	11.18	0	0.85	0
8/15/2018	McDonough	MILLWRIGHT	All	BLD		32.24	34.49	1.5	1.5	2	2	8.55	18.57	0	0.54	0
8/15/2018	McDonough	MILLWRIGHT	All	HWY		35.01	37.26	1.5	1.5	2	2	8.55	18.8	0	0.52	0
4/5/2019	McDonough	OPERATING ENGINEER	All	BLD	1	40.01	43.01	1.5	1.5	2	2	10	19.73	0	3.3	0
8/15/2018	McDonough	OPERATING ENGINEER	All	BLD	2	37.07	43.01	1.5	1.5	2	2	10	19.73	0	3.3	0
8/15/2018	McDonough	OPERATING ENGINEER	All	BLD	3	32.21	43.01	1.5	1.5	2	2	10	19.73	0	3.3	0
10/26/2018	McDonough	OPERATING ENGINEER	All	HWY	1	40.02	43.02	1.5	1.5	2	2	10	19.73	0	3.3	0
4/5/2019	McDonough	OPERATING ENGINEER	All	HWY	2	37.08	43.02	1.5	1.5	2	2	10	19.73	0	3.3	0
8/15/2018	McDonough	OPERATING ENGINEER	All	HWY	3	32.22	43.02	1.5	1.5	2	2	10	19.73	0	3.3	0
4/5/2019	McDonough	PAINTER	All	ALL		36.1	38.1	1.5	1.5	1.5	1.5	11.55	8.2	0	1.35	0
8/15/2018	McDonough	PILEDRIVER	All	BLD		34.02	36.27	1.5	1.5	2	2	8.55	17.5	0	0.54	0
8/15/2018	McDonough	PILEDRIVER	All	HWY		35.76	38.01	1.5	1.5	2	2	8.55	17.5	0	0.52	0
8/15/2018	McDonough	PIPEFITTER	All	BLD		39.5	43.85	1.5	1.5	2	2	7.25	12.78	0	1.16	0
8/15/2018	McDonough	PLASTERER	All	BLD		32	33.75	1.5	1.5	2	2	8.65	13.75	0	8.0	0
4/5/2019	McDonough	PLUMBER	All	BLD		36.12	39.37	1.5	1.5	2	2	7.25	14.96	0	1	0
8/15/2018	McDonough	ROOFER	All	BLD		31.5	34.65	1.5	1.5	2	2	9	9.7	0	0.3	0
8/15/2018	McDonough	SHEETMETAL WORKER	All	BLD		32.93	35.2	1.5	1.5	2	2	7.14	13.91	0	0.7	0
8/15/2018	McDonough	SPRINKLER FITTER	All	BLD		45.62	45.62	1.5	1.5	2	2	9.67	9.8	0	0.77	0
8/15/2018	McDonough	STONE MASON	All	BLD		30.29	31.8	1.5	1.5	2	2	9.1	11.18	0	0.85	0
8/15/2018	McDonough	TERRAZZO FINISHER	ALL	BLD		30.48	30.48	1.5	1.5	2	2	8.57	8.58	0	0.1	

8/15/2018	McDonough	TILE MASON	All	BLD		32.53	32.53	1.5	1.5	2	2	9.1	8.71	0	0.15	0
8/15/2018	McDonough	TRUCK DRIVER	All	ALL	1	37.06	41.07	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	ALL	2	37.6	41.07	1.5	1.5	2	2	12.65	6.12	0	0.25	0
4/5/2019	McDonough	TRUCK DRIVER	All	ALL	3	37.85	41.07	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	ALL	4	38.2	41.07	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	ALL	5	39.21	41.07	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	O&C	1	29.65	32.86	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	O&C	2	30.08	32.86	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	O&C	3	30.28	32.86	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	O&C	4	30.56	32.86	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TRUCK DRIVER	All	O&C	5	31.37	32.86	1.5	1.5	2	2	12.65	6.12	0	0.25	0
8/15/2018	McDonough	TUCKPOINTER	All	BLD		30.29	31.8	1.5	1.5	2	2	9.1	11.18	0	0.85	0

Legend

M-F OT Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OSA Overtime pay required for every hour worked on Saturdays

OSH Overtime pay required for every hour worked on Sundays and Holidays

H/W Health/Welfare benefit

Explanations MCDONOUGH COUNTY

ELECTRICIANS (NORTH) - Blandinville, Bushnell, Chalmers, Colchester, Emmet, Hire, Macomb, Mound, New Sales, Prairie City, Scotland, Sciota Tennessee, and Walnut Grove.

ELECTRICIANS (SOUTH) - Bethel, Eldorado, Industry and Lamoine.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourt of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays whicl fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtim rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application c aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanica systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in noway a limitation of the product handled. Ceramic takes into consideration most hard tiles

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, o digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance

background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems no intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greaser and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks o similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticke writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, o oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with th actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials

OPERATING ENGINEERS - BUILDING

Class 1. Cranes; Overhead Cranes; Gradall; All Cherry Pickers; Mechanics; Central Concrete Mixing Plant Operator; Road Pavers (27E - Dual Drun - Tri Batchers); Blacktop Plant Operators and Plant Engineers; 3 Drum Hoist; Derricks; Hydro Cranes; Shovels; Skimmer Scoops; Koehrinį Scooper; Drag Lines; Backhoe; Derrick Boats; Pile Drivers and Skid Rigs; Clamshells; Locomotive Cranes; Dredge (all types) Motor Patrol; Powe Blades - Dumore - Elevating and similar types; Tower Cranes (Crawler-Mobile) and Stationary; Crane-type Backfiller; Drott Yumbo and simila types considered as Cranes; Caisson Rigs; Dozer; Tournadozer; Work Boats; Ross Carrier; Helicopter; Tournapulls - all and similar types; Scoop (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Heavy Equipment Greaser; CMI, CMI Bel Placer, Auto Grade & 3 Track and similar types; Side Booms; Multiple Unit Earth Movers; Creter Crane; Trench Machine; Pump-crete-Belt Crete Squeeze Cretes-Screw-type Pumps and Gypsum; Bulker & Pump - Operator will clean; Formless Finishing Machine; Flaherty Spreader or simila types; Screed Man on Laydown Machine; Wheel Tractors (industrial or Farm-type w/Dozer-Hoe-Endloader or other attachments); F.W.D. & Similar Types; Vermeer Concrete Saw.

Class 2. Dinkeys; Power Launches; PH One-pass Soil Cement Machine (and similar types); Pugmill with Pump; Backfillers; Euclid Loader; Forklifts Jeeps w/Ditching Machine or other attachments; Tuneluger; Automatic Cement and Gravel Batching Plants; Mobile Drills (Soil Testing) and similar types; Gurries and Similar Types; (1) and (2) Drum Hoists (Buck Hoist and Similar Types); Chicago Boom; Boring Machine & Pipe Jacking Machine; Hydro Boom; Dewatering System; Straw Blower; Hydro Seeder; Assistant Heavy Equipment Greaser on Spread; Tractors (Track type without Power Unit pulling Rollers; Rollers on Asphalt -- Brick Macadem; Concrete Breakers; Concrete Spreaders; Mule Pulling Rollers; Cente Stripper; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Cement Finishing Machine; Barber Green or similar loaders; Vibro Tamper (All similar types) Self-propelled; Winch or Boom Truck; Mechanical Bull Floats; Mixers over 3 Bag to 27E; Tractor pulling Power Blade o Elevating Grader; Porter Rex Rail; Clary Screed; Truck Type Hoptoe Oilers; Fireman; Spray Machine on Paving; Curb Machines; Truck Cranto Oilers; Oil Distributor; Truck-Mounted Saws.

Class 3. Air Compressor; Power Subgrader; Straight Tractor; Trac Air without attachments; Herman Nelson Heater, Dravo, Warner, Silent Glo and similar types; Roller: Five (5) Ton and under on Earth or Gravel; Form Grader; Crawler Crane & Skid Rig Oilers; Freight Elevators permanently installed; Pump; Light Plant; Generator; Conveyor (1) or (2) - Operator will clean; Welding Machine; Mixer (3) Bag and Unde (Standard Capacity with skip); Bulk Cement Plant; Oiler on Central Concrete Mixing Plant

OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION

CLASS 1. Cranes; Hydro Cranes; Shovels; Crane Type Backfiller; Tower, Mobile, Crawler, & Stationary Cranes; Derricks; Hoists (3 Drum) Draglines; Drott Yumbo & Similar Types considered as Cranes; 360 Degree Swing Excavator (Shears, Grapples, Movacs, etc.); Back Hoe; Derricl Boats; Pile Driver and Skid Rigs; Clam Shell; Locomotive - Cranes; Road Pavers - Single Drum - Dual Drum - Tri Batcher; Motor Patrols & Powe Blades - Dumore - Elevating & Similar Types; Mechanics; Central Concrete Mixing Plant Operator; Asphalt Batch Plant Operators and Plan Engineers; Gradall; Caisson Rigs; Skimmer Scoop - Koering Scooper; Dredges (all types); Hoptoe; All Cherry Pickers; Work Boat; Ross Carrier Helicopter; Dozer; Tournadozer; Tournapulls - all and similar types; Operation of Concrete and all Recycle Machines; Multiple Unit Earth Movers Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Operation of Material Crusher Screening Plants, and Tunnel Boring Machine; Heavy Equipment Greaser (top greaser on spread); CMI, Auto Grade, CMI Belt Placer & 3 Tracl and Similar Types; Side Booms; Asphalt Heater & Planer Combination (used to plane streets); Wheel Tractors (with Dozer, Hoe or Endloade Attachments); CAT Earthwork Compactors and Similar Types; Blaw Knox Spreader and Similar Types; Trench Machines; Pump Crete - Belt Crete Squeeze Crete - Screw Type Pumps and Gypsum (operator will clean); Creter Crane; Operation of Concrete Pump Truck; Formless Finishing Machines: Flaherty Spreader or Similar Types: Screed Man on Laydown Machine: Vermeer Concrete Saw: Operation of Laser Screed: Span Saw Dredge Leverman; Dredge Engineer; Lull or Similar Type; Hydro-Boom Truck; Operation of Guard Rail Machine; and Starting Engineer on Pipeline or Construction (11 or more pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pump (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc. and Ground Heater (Trailer Mounted) CLASS 2. Bulker & Pump; Power Launches; Boring Machine & Pipe Jacking Machine; Dinkeys; Operation of Carts, Powered Haul Unit for a Boring Machine; P & H One Pass Soil Cement Machines and Similar Types; Wheel Tractors (Industry or Farm Type - Other); Back Fillers; Euclid Loader Fork Lifts; Jeep w/Ditching Machine or Other Attachments; Tunneluger; Automatic Cement & Gravel Batching Plants; Mobile Drills - Soil Testing and Similar Types; Pugmill with Pump; All (1) and (2) Drum Hoists; Dewatering System; Straw Blower; Hydro-Seeder; Bump Grinders (selfpropelled) Assistant Heavy Equipment Greaser; Apsco Spreader; Tractors (Track-Type) without Power Units Pulling Rollers; Rollers on Asphalt Brick or Macadam; Concrete Breakers; Concrete Spreaders; Cement Strippers; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Vibro-Tampers (All Similar Types Self-Propelled); Mechanical Bull Floats; Self-Propelled Concrete Saws; Truck Mounted Power Saws Operation of Curb Cutters; Mixers - Over Three (3) Bags; Winch and Boom Trucks; Tractor Pulling Power Blade or Elevating Grader; Porter Re: Rail: Clary Screed: Mule Pulling Rollers: Pugmill without Pump; Barber Greene or Similar Loaders; Track Type Tractor w/Power Unit attached (minimum); Fireman; Spray Machine on Paving; Curb Machines; Paved Ditch Machine; Power Broom; Self-Propelled Sweepers; Self-Propelled Conveyors: Power Subgrader: Oil Distributor: Straight Tractor: Truck Crane Oiler: Truck Type Oilers: Directional Boring Machine: Horizonta Directional Drill; Articulating End Dump Vehicles; Starting Engineer on Pipeline or Construction (6 -10 pieces) including: Air Compressor (Traile Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size) Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

CLASS 3. Straight Framed Truck Mounted Vac Unit (separately powered); Trac Air Machine (without attachments); Rollers - Five Ton and Unde on Earth and Gravel; Form Graders; Bulk Cement Plant; Oilers; and Starting Engineer on Pipeline or Construction (3 - 5 pieces) including: Ai Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2") Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted)

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to b performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring count has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rat applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existe under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates o clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscap

plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless c equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless c size of truck driver) is covered by the classifications of truck driver

<u>DIVISION 1 - GENERAL REQUIREMENTS</u> 01 11 00 - Project Summary

1. **STANDARD DOCUMENTS FOR CONSTRUCTION**: CDB's 2009 edition of the Standard Documents for Construction (SDC) and the Supplement to Standard Documents for Construction (Section 01 11 01) shall apply to this project.

2. GENERAL PROJECT INFORMATION: PHASE ONE

A. DESCRIPTION: Base Bid work will include:

1. Removal and replacement of the roofing on both the existing Currens Hall (T4005) and Heating Plant Annex (4019) buildings: resulting in new roofs, insulation, flashings, and any necessary accessories for both roofs, as shown on the Project Drawings, and as specified in the appropriate specification sections.

B. EXISTING CONDITIONS:

Work will take place at an occupied facility. The existing facilities are located on grounds of the Western Illinois University, 1 University Circle, in Macomb, McDonough County, Illinois.

3. **CONTRACT TIME**: Refer to Articles 00 72 10 and 01 32 00 of the <u>Standard</u> Documents for Construction.

SPECIAL NOTICE - DEADLINE FOR COMPLETION. Contractor shall commence work immediately upon receipt of the Authorization to Proceed and shall complete all work through Substantial Completion in accord with the contract no later than
<u>DECEMBER 31, 2019">DECEMBER 31, 2019</u>. The contractor shall complete <u>all</u> work in accordance with the contract (Final Acceptance) within <u>60</u> consecutive calendar days from the date of Substantial Completion.

- 4. **CONTRACT(S)**. Construct project under single prime contract. All work shown on the bidding documents is the responsibility of the contractor, regardless of the trade or specialty involved.
- 5. **PRE-BID CONFERENCE**. The pre-bid meeting will be as indicated in 00 11 13. Bidders are strongly urged to attend this meeting. See SDC 00 21 10 and 00 25 00.
- 6. **CONSTRUCTION ADMINISTRATION FEE**: A construction administration fee (CAF) is applicable to each contract in accordance with Article 00 21 40 of the <u>Standard</u> Documents for Construction:

The contractor will be assessed three percent (3%) of their awarded contract (base bid plus any awarded alternates). The assessed amount will be included in the Notice of Award Letter. Bidders shall include an allowance for the CAF assessment in their bid.

7. **BID SECURITY**: Bid security must be submitted with each bid equal to 10% of the base bid and must be in the form of a CDB bid bond, certified check, cashier's check or bank draft. Refer to Article 00 43 13 of the <u>Standard Documents for Construction</u>.

8. **BUILDERS RISK INSURANCE, DESIGNATED PURCHASER**. The contractor shall purchase and maintain builder's risk insurance in accord with Article 00 73 19 of the <u>Standard Documents for Construction</u>.

9. PROCUREMENT OF DOMESTIC PRODUCTS ACT.

- A. The Procurement of Domestic Products Act, 30 ILCS 517/30, requires each purchasing agency making purchases of procured products to promote the purchase of and give preference to manufactured articles, materials, and supplies that have been manufactured in the United States.
- B. "Manufactured in the United States" means, in the case of assembled articles, materials, or supplies, that design, final assembly, processing, packaging, testing, or other process that adds value, quality, or reliability occurs in the United States.
- C. As the A/E of Record, our determination is the promotion and preferences required are being applied to this project. Bidders may request preference on document 00 41 00 Bid Form.

END OF SECTION 01 11 00

DIVISION 1 - GENERAL REQUIREMENTS 01 11 01 - Supplement to SDC and SDC-CM

The <u>Standard Documents for Construction</u> and <u>Standard Documents for Construction for Projects with a Construction Manager</u> are hereby changed. The following articles replace those in the 2006 and 2009 editions. All other articles remain applicable. **General revision: any reference to "Female Business Enterprise (FBE)" shall mean "Women Business Enterprise (WBE)."**

00 21 05 PREQUALIFICATON

.7 Single Prime Delivery Method Projects. The protected subcontractors, as identified on Document 00 41 00 bid form, shall be prequalified with CDB under the same requirements listed in 00 21 05 .1 -.6 for the bidder.

00 21 50 WORK WITH OWN STAFF

- .1 General. For Single Prime Delivery Method Projects: The Prime Bidding Contractor and the designated protected subcontractors shall perform the work at the site employing not less than the following amount of its own forces. For purposes of this Article, the work includes direct labor and supervision, as well as material purchases where the material is installed by the Prime Bidding Contractor/Protected Subcontractors.
 - A. When General Trade is the Prime Bidding Trade: The General trade shall perform 20% of the following amount: total value of awarded amount less total value of designated protected trade work identified on the bid form, and less the cost of CAF, insurance and bonds
 - Each designated protected trade work: 40% of the value of the respective designated protected trade work identified on the bid form.
 - **B.** When a trade other than the General is the Prime Bidding Trade: the Prime Bidding Trade shall do 40% of the following amount: total value of awarded amount less total value of designated protected trade work identified on the bid form, and less the cost of CAF, insurance and bonds. Each designated protected trade work: 20% of the value of the General Trade work, and 40% of the value of the remaining respective designated protected trade work identified on the bid form.

.2 Subcontractors and Suppliers

C. Subcontract/Supplier Disclosure. The Contractor shall submit with his/her bid the names and CDB issued identification (ID) numbers (prequalification ID number or registration ID number), if known, of all first tier subcontractors and suppliers with a subcontract value greater than \$50,000 to be utilized by the Contractor in the performance of this contract and any lower tier subcontractor/supplier with a subcontract value greater than \$50,000 and where the subcontractor/supplier is either named in the specifications or is one over whom the Contractor retains the right to approve and/or make payments for work. The subcontract shall include reference for compliance with Illinois Procurement Code 30 ILCS 500/20-120. Financial and Conflict of Interest disclosures and standard certifications for each

subcontractor over \$50,000 must be submitted to CDB by the contractor within 20 days of the execution of a contract with CDB or 20 days of the execution of the subcontract, whichever is later. The Contractor shall promptly notify the State in writing of any additional or substitute subcontractors meeting the above criteria hired during the term of this contract (names, addresses, expected contract amount and CDB ID nos.). Upon request by the CPO, the Contractor shall provide CDB a copy of each subcontractor's subcontract. No work can be performed by these subcontractors until the Certifications and Disclosures have been reviewed and approved by the State Purchasing Officer.

00 21 55 USE OF ILLINOIS LABOR

- .1 30 ILCS 570 mandates that during a period of excessive unemployment at least 90% of the total labor hours on State construction projects must be performed by persons who have resided in Illinois for at least thirty (30) days and intend to become or remain Illinois residents. (30 ILCS 570/3). 'A period of excessive unemployment' means any month immediately following 2 consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded 5% as measured by the United States Bureau of Labor Statistics in its monthly publication of employment and unemployment figures. (30 ILCS 570/1).
- .2 Contractors are required to incorporate the above provisions into all subcontracts for subcontractors who will have workers at the project site.
- .3 To verify that this requirement is being met, contractors must submit Certified Payroll forms for themselves and their subcontractors each month for the duration of the contract/subcontract.
 - A. The Certified Payroll form(s) must include the name and address of each worker on the project site during the time period covered by the form.
 - B. For subcontractors, the contractor will include the beginning and ending dates of the subcontract on the Certified Payroll form.
 - C. If Certified Payroll forms are not submitted timely, payment may be reduced or withheld until Certified Payroll submittals are brought up to date.

00 43 30 BUY ILLINOIS PROGRAM

- .1 **General.** The Buy Illinois Program encourages contractors to incorporate products manufactured, fabricated or assembled in the State of Illinois. It is a voluntary program; there is no incentive provision affecting the award of the contract nor is there a required percent of the contract that must be Illinois products.
- .2 Illinois products will be indicated in the project manual with (IL) preceding the item in the specification paragraph. Typically, only specifications that are prescriptive, those listing three or more manufacturers, will be in the program. Contractors should consider these products when procuring the materials and equipment for the project. If the contractor is aware of an Illinois product not listed, the contractor is encouraged to advise the A/E prior to bidding or offer a product substitution with the bid. CDB will verify that the product meets the definition of an Illinois product and add it to CDB's Buy Illinois product directory.
- .3 Contractors should provide the total value of Illinois products on the Contractor's Schedule of Values (CSV) in the space provided. The individual items included in the total should be identified by putting "IL" in front of their descriptions on the CSV.
- .4 Where material is specified by standards and/codes and not by a list of acceptable manufacturers, contractors are still encouraged to purchase Illinois products. However, the contractor should not include these materials in the computation of the total dollars for Illinois products on the CSV.

00 43 39 MINORITY, FEMALE, AND VETERAN BUSINESS ENTERPRISE PARTICIPATION

- .1 Certification. CDB will only accept Minority and Female and Veteran Business Enterprise (MBE/FBE/VBE) firms certified by the Illinois Department of Central Management Services (CMS) as a MBE or FBE or VBE. The MBE/FBE/VBE's certification/or recognition with CMS shall be in good standing prior to the bid opening date.
- .2 Designated Projects. CDB may designate projects with "MBE/FBE/VBE participation goals." See the bid form, Section 00 41 05 of the project manual, for applicable goals for first and second tier (level) subcontractors and supplier MBE/FBE/VBE participation. For Single Prime Delivery Method Projects: participation of certified MBE/FBE second level subcontractors and suppliers is permissible for meeting applicable goals.
- .3 Bid Form. Each bidder shall name, on the bid form provided, the minority, female, and veteran owned businesses it intends to use to meet the specified goals. If the specified goals are not met, within 10 (ten) calendar days of the bid opening the bidder shall: (1) cure the deficiency in the bid by adding participation to meet the goals, or (2) request a waiver of the specified goals including documentation of its good faith efforts to achieve the goals.
- .4 MBE/FBE/VBE Bidder. If the bidder is a minority or female or veteran owned business then indicate the work proposed to be done with own forces on the 00 41 05 Form. CDB encourages MBE/FBE/VBE prime bidders to use MBE/FBE/VBE subcontractors/suppliers.
- .5 Joint Venture. If the bidder is a joint venture, the MBE/FBE/VBE joint venturer may be used to meet the MBE/FBE/VBE goal for the contract, consistent with the provisions of subsection .11(g).
- **.6** Subcontracts. Subcontracting of work to a lower tier non-MBE/FBE/VBE firm which would reduce the proceeds received by the subcontracting MBE/FBE/VBE firm below the specified goal is prohibited. CDB may, in such cases, reject the bid or terminate the contract. Refer to Paragraph 00 51 20.2.A).
- .7 Request for Assistance. If the bidder needs assistance in locating subcontractors or suppliers to meet the goals, bidder shall contact CDB's Fair Employment Practices Division both prior to the submittal of the bid, and, if applicable, during the 10-day cure period.
- .8 Submittal of Good Faith Effort documentation or waiver request. Include with the package:
 - A. All information indicating why the specified goal cannot be met.
 - B. A list of all MBE/FBE/VBE firms contacted and the dates they were contacted, including documentation from those firms.
 - C. Copies of all bid solicitation letters to MBE/FBE/VBE firms. Letters shall contain, at a minimum:
 - 1) project title and location;
 - 2) classification of work items for which quotations are requested;
 - 3) date, time, and place quotations are due; and
 - 4) returnable acknowledgment of the solicitation.
 - D. Evidence, such as a log of telephone contact including time and date of call, telephone number, and name of the person called; written correspondence; and quotes from solicited firms.
 - E. All other evidence of good faith efforts made by the bidder to secure eligible MBE/FBE/VBE

firms to meet the specified goal. Evidence may include documentation that states the following:

1) A reasonable number of MBE/FBE/VBE firms were contacted.

2) The work selected by the bidder for allocation to MBE/FBE/VBE firms was selected in

order to increase the likelihood of achieving the specified goal.

- 3) The bidder negotiated, in good faith, with the potential MBE/FBE/VBE firms by not imposing any conditions which are not similarly imposed on all other subcontractors and suppliers, or by denying benefits ordinarily conferred on subcontractors or suppliers for the type of work for which bids were solicited.
- 4) The services of the referral agencies were used by the bidder in efforts to achieve the specified goal.
- 5) The bidder attended the CDB pre-bid meeting for the project.
- F. Mathematical errors should be addressed by providing a detailed rationale and evidence, such as quotes, notes, and spreadsheets that explains and justifies the mathematical error.
- G. All actions taken to solicit MBE/FBE/VBE firms both pre-bid opening date and post-bid opening date.
- H. A revised 00 41 05 form, if MBE/FBE/VBE participation increases during the 10 day cure period but goals are not met.
- I. Other relevant information in support of the waiver request.
- .9 Replacement of MBE/FBE/VBE Subcontractor or Supplier. If it can be demonstrated that the MBE/FBE/VBE subcontractor or supplier cannot perform the work, or if a MBE/FBE/VBE loses its CMS certification or recognition after the bid opening, then the Contractor shall make a good faith effort to replace, in-kind, the MBE/FBE/VBE. The contractor shall identify the replacement MBE/FBE/VBE or provide evidence of good faith effort to find a replacement on the Contractor's letterhead and submit with documented evidence of cause to CDB's Fair Employment Practices Division. CDB will review the submittal and may authorize the replacement or approve the good faith effort.
- .10 Calculation of MBE/FBE/VBE Participation as a Material Supplier or Subcontractor
 - A. MBE/FBE/VBE as a material supplier: A 100 percent goal credit is allowed for the cost of materials or purchases from a MBE/FBE/VBE manufacturer or supplier.
 - B. MBE/FBE/VBE as a subcontractor: A 100 percent goal credit is allowed for the work of the subcontract performed by the MBE/FBE/VBE's own forces (performing, managing and supervising the work), including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the MBE/FBE/VBE subcontractor from the prime Contractor or its affiliates. Work that a MBE/FBE/VBE subcontractor in turn subcontracts to a non-MBE/FBE/VBE does not count toward the MBE/FBE/VBE goal.
- .11 Work to be Completed by Firm Certified with BEC/CMS. To be credited towards goals for Minority Business Enterprise (MBE), Female Business Enterprise (FBE), and Veteran Business Enterprise (VBE) participation, work must be performed by an entity certified by the Business Enterprise Council for Minorities, Females and Persons with Disabilities ("BEC") as administered by the Illinois Department of Central Management Services (CMS) as an MBE, FBE, or VBE firm pursuant to the Business Enterprise for Minorities, Females, and Persons with Disabilities Act (30 ILCS 575/5) and the Illinois Procurement Code (30 ILCS 500/45-57).
 - a) The entire amount of contractual work performed by a MBE, FBE, or VBE's own forces will be credited towards MBE/FBE/VBE goals, including the cost of supplies, materials, and equipment obtained by the MBE, FBE, or VBE for this work (except supplies and equipment the MBE/FBE/VBE obtains from the prime contractor or its

affiliate).

- b) The entire amount of fees or commissions charged by a MBE/FBE/VBE firm for providing a bona fide service, such as professional, technical, consultant, or managerial services will be credited towards MBE/FBE/VBE goals provided such fees are reasonable and not excessive as compared to fees customarily allowed for similar services. Services for materials and supplies are defined in Section 00 43 39.14 and are not considered to be professional, technical, consultant, or managerial services.
- Work subcontracted by a MBE/FBE/VBE to another firm will not be credited towards goals unless the subcontractor performing the work is also certified by BEC/CMS as a MBE/FBE/VBE. Work that a MBE/FBE/VBE subcontracts to a firm not certified as a MBE/FBE/VBE does not count toward the goal. For example, if a MBE firm has a subcontract to perform \$100,000 worth of work and subcontracts \$10,000 of that work to a non-MBE firm, only the \$90,000 worth of work performed by the MBE firm will be credited toward the goal.
- d) If a firm is not currently certified as a MBE/FBE/VBE at the time of the execution of the contract, the firm's participation will not be counted toward any goals.
- e) The dollar value of work performed under a contract with a firm after it has ceased to be certified will not be counted toward the overall goal.
- f) The participation of a MBE/FBE/VBE subcontractor will not be counted toward a Contractor's final compliance with its MBE/FBE/VBE obligations on a contract until the amount being counted has actually been paid to the MBE/FBE/VBE.
- g) When a MBE/FBE/VBE performs as a participant in a joint venture, a portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work of the contract that the MBE/FBE/VBE performs with its own forces may be counted toward MBE/FBE/VBE goals.
- .12 Commercially Useful Function. Expenditures to a MBE/FBE/VBE will only be credited towards MBE/FBE/VBE goals if the MBE/FBE/VBE performs a commercially useful function on that contract. A MBE/FBE/VBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the MBE/FBE/VBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering material, and installing (where applicable) and paying for the material itself.
 - a) Factors to be used in determining whether a MBE/FBE/VBE is performing a commercially useful function include, but are not limited to, the amount of the work subcontracted, industry practices, and whether the amount the firm is paid is commensurate with the work it is performing and the MBE/FBE/VBE credit claimed for its performance of the work.
 - b) A MBE/FBE/VBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of MBE/FBE/VBE participation. In determining whether a MBE/FBE/VBE is such an extra participant, similar transactions, particularly those in which MBE/FBE/VBEs do not participate, will be examined.
 - c) If a MBE/FBE/VBE does not perform at least 30 percent of the total cost of its contract with its own work force, or the MBE/FBE/VBE subcontracts a greater portion of the work than would be expected on the basis of normal industry practice

for the type of work involved, a presumption will arise that the MBE/FBE/VBE is not performing a commercially useful function. A MBE/FBE/VBE firm may present evidence to CDB to rebut this presumption. The MBE/FBE/VBE must provide such evidence to rebut the presumption within 7 business days of being notified that the presumption will be applied.

- d) A prime contractor that is a MBE/FBE/VBE will still be required to meet the goals required on the contract. In determining whether the MBE/FBE/VBE prime contractor has met the goal, the work the MBE/FBE/VBE prime contractor actually performs with its own forces will be credited, as well as work performed by MBE/FBE/VBE subcontractors or suppliers, consistent with the terms of Section 00 43 39. The presumption in .12(c) above will not attach if the MBE/FBE/VBE is the prime contractor and satisfies the "Work With Own Staff" requirement in Section 00 21 50
- e) A bidder's efforts to exercise Good Faith Efforts by providing assistance in advance of the bid to a MBE/FBE/VBE firm in making purchases, obtaining bonding, obtaining credit, or providing equipment will not invalidate the commercially useful function of a MBE/FBE/VBE, provided that the MBE/FBE/VBE has otherwise performed a commercially useful function consistent with the terms of Section 00 43 39. Credit will only be given for work performed by, purchases made by, and equipment obtained by the MBE/FBE/VBE, consistent with the terms of Section 00 43 39. A bidder's efforts to assist the MBE/FBE/VBE will not be credited.
- .13 Trucking Company. To be credited towards MBE/FBE/VBE goals, a trucking company or major construction equipment rental (MCER) must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there cannot be a contrived arrangement for the purpose of meeting MBE/FBE/VBE goals.
 - a) The MBE/FBE/VBE must itself own and operate at least one fully licensed, insured, and operational truck or major construction equipment unit (MCEU) used on the contract.
 - b) The entire value of transportation services a MBE/FBE/VBE provides on the contract using trucks or MCEUs it owns, insures, and operates using drivers it employs will be credited towards MBE/FBE/VBE goals.
 - c) If a MBE/FBE/VBE leases trucks or MCEUs from another MBE/FBE/VBE, the entire value of the services provided by the lessee will be credited.
 - d) If a MBE/FBE/VBE leases trucks or MCEUs from a company that is not a MBE/FBE/VBE, the total value of transportation services provided by the lessee is not to exceed the value of transportation services provided by MBE/FBE/VBE owned trucks or MCEUs on the contract.
 - e) For purposes of this section, a lease must indicate that the MBE/FBE/VBE has exclusive use of and control over the truck(s) or MCEU(s). This does not preclude the leased truck from working for others during the term of the lease with the consent of the MBE/FBE/VBE, so long as the lease gives the MBE/FBE/VBE absolute priority for the leased truck(s) or MCEU(s). Leased trucks and MCEUs must display the name and identification number of the MBE/FBE/VBE.
 - f) The MBE/FBE/VBE must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there cannot be a contrived arrangement for the purpose of meeting MBE/FBE/VBE goals.

.14 Materials and Supplies

- Credit towards goals will be given for materials purchased from a MBE/FBE/VBE a) supplier or manufacturer that is certified as such with BEC/CMS.
- For purposes of this section, a manufacturer is a firm that operates and maintains a b) factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described in the specifications.
- c) For the purposes of this section, a supplier is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
 - A supplier must be an established, regular business that engages as its 1) principal business and under its own name, in the purchase and sale or lease of the products in question.
 - 2) A person may be a supplier in such bulk items as steel, cement, gravel, stone, petroleum products, or asphalt without owning, operating, or maintaining a place of business as provided in this paragraph c if the person both owns and operated distribution equipment for the products. Any supplementing of a supplier's own distribution equipment shall be by a long-term lease agreement and not on an ad hoc or contract-by-contract basis.
 - 3) Brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions are not suppliers within the meaning of this section.

00 45 00 CERTIFICATIONS OF COMPLIANCE WITH APPLICABLE LAWS

.14 Recertification. If the contract extends over multiple years, vendor (A/E or Contractor) and its subcontractors will sign and submit to CDB Contracts the required Compliance Form (available in the Reference Library on CDB's website: <u>www.illinois.gov/cdb</u>) by April 1 of each subsequent year after the contract is signed. Failure to do so may result in voiding the contract by operation of law or rendering the contract voidable at the option of the State without additional compensation. Violations of certain provisions may also be deemed a civil or criminal offense.

00 51 20 ACCEPTANCE AND REJECTION OF BIDS

- .1 CDB's Rights. When, in its opinion, it is in the best interest of the state, CDB reserves the right
 - A. Accept any bid
 - B. Reject any or all bids
 - C. Waive technical deficiencies and irregularities
 - D. Allow bidder to remedy technical deficiencies or irregularities within a stated time
 - E. Rescind any notice of award if CDB determines the notice of award was issued in error
 - F. Rescind any notice of award when it is in the best interest of the state G. Rebid any contract

.2 Bid Rejection.

- A. Bids will be rejected for the following material deficiencies:
 - 1) Failure to be prequalified with CDB no later than the close of business the day before the bid opening (Article 00 21 05) or being determined non-responsible after bid opening.
 - 2) Submission of a bid late (Paragraph 00 51 10.1).
 - 3) Failure to submit bid and/or bid modifications to appropriate bid opening office.
 - 4) Submission of a bid in a manner that reveals the bid price prior to the bid opening (example: by fax). (Paragraph 00 42 10.4).
 - 5) Use of a bid envelope, which is received by CDB unsealed, or marked in a manner that does not reasonably identify the project and/or contract for which it is intended (Paragraph 00 42 10.3).
 - 6) Omission of a base bid price, alternate bid price or unit price (Paragraph 00 42 10.1).
 - 7) Submission of a bid price that cannot be determined.
 - 8) Deletion of original signatures to the extent that an intent to be bound by the bid is not apparent.
 - 9) When CDB does not accept the unit price(s), when those prices are an integral part of the base bid, the bidder shall be rejected.
 - 10) Failure to attend a mandatory pre-bid meeting.
 - 11) Bids not in substantial conformance with the bidding documents and whose non-conformance is determined to be material and unresponsive.
 - 12) Failure to submit Bidder Disclosure(s) form and Certifications with bid, when the bidder is not registered with the Illinois Procurement Gateway (IPG).
 - 13) Failure to be registered with the State Board of Elections, prior to bid opening date, when applicable.
 - 14) Failure to submit Disclosure of Business Operations with Government of Iran form in accord with 30 ILCS 500/50-36.
 - 15) Any other material deficiency specifically identified in the project bid documents.
 - 16) For Single Prime Contract Bids (as defined by 30 ILCS 500/30-30(a)): failure to provide names and bid proposal costs for required protected subcontractor trades or providing more than one protected subcontractor for each trade.
 - 17) For Single Prime Contract Bids: failure of identified protected subcontractor to be properly prequalified with CDB, licensed and certified, at the time of bidding, to perform the identified trade.
- B. Failure to remedy the following technical deficiencies with seven (7) calendar days after the bid opening shall result in rejection of the bid. These technical deficiencies are:

- 1) Failure to use a revised bid form when bid forms have been changed by addenda.
- 2) Failure to acknowledge an addendum, however adjustment of the bid amount will not be allowed.
- 3) Failure to provide USDOL Apprenticeship and Training Certification for bidder and all known subcontractors.
- 4) Failure to submit bidder's Certificate of Registration in an approved apprenticeship and training program.
- 5) Failure to supply subcontractor and/or supplier names and Taxpayer Identification Numbers as required on Document 00 41 01.
- 6) Submission of a bid bond not on CDB's form (Paragraphs 00 43 13.1 and 00 43 13.2).
- 7) Submission of a bid security in a form other than a bid bond, certified check, cashier's check or bank draft (Paragraph 00 43 13.1).
- 8) Omission of the signature of the officer of the surety or any other required signatures except the signature in Paragraph 00 51 20.2.A.8), submission of those signatures in pencil or submission of a non-original signature.
- 9) Replacement of a bid security from an unacceptable surety with one from a surety acceptable to CDB (Paragraph 00 43 13.4).
- 10) Failure to furnish and/or complete the DHR PC-2 form.
- 11) Failure to submit a signed affidavit stating that the bidder will maintain an Illinois office as the primary place of employment for persons employed in the construction authorized by the contract.
- 12) Failure to submit Certificate of Registration with State Board of Elections in accord with 30 ILCS 500/20-160.
- 13) Any other technical deficiency specifically identified in the project bid documents.
- C. MBE/FBE/VBE goal compliance deficiencies. Failure to remedy the following deficiencies within ten (10) calendar days after bid opening shall result in rejection of the bid. These deficiencies are:
 - 1) When applicable, failure to submit a revised 00 41 05 form, documenting achievement of goals.
 - 2) When applicable, failure to submit documentation acceptable by CDB of good faith efforts to meet minority/female/veteran goals.
- D. CDB at its sole discretion and without conferring any rights on any bidder may waive bid technical deficiencies or irregularities that are not in conformance with the bidding documents but whose non-conformance is non-material or minor.
- E. Submittal of conditions or qualifying statements contrary to CDB's contract terms is not acceptable and, unless rescinded, the bid shall be rejected.

00 51 28 MBE/FBE/VBE BUSINESS CERTIFICATION, POST AWARD REQUIREMENTS

.1 **Post-Award submittal.** See Article 00 51 40. The contract awardee shall submit CDB's MBE/FBE/VBE Subcontractor Supplier Certification form, Document 00665 (available in the Reference Library on CDB's website), for each of the MBE/FBE/VBE subcontractor(s) and/or supplier(s) being utilized to meet the designated participation goals as specified on the bid form and in Section 01 11 00 of the project manual. The form must be signed by the MBE/FBE/VBE subcontractor or supplier and shall be submitted to CDB's FEP section.

Completion of the 00665 form is not required if the Contractor is an MBE or FBE or VBE firm. MBE/FBE/VBE prime contractors are encouraged to utilize MBE/FBE/VBE subcontractors/suppliers. If goals are split (separate MBE and FBE and VBE goals), then an MBE or FBE or VBE firm must supply 00665 forms for the subcontractor firm(s) utilized to meet the FBE or MBE or VBE goal, respectively.

- .2 Listed Firms. The 00665 certification form shall be completed and submitted for each MBE/FBE/VBE firm listed on the 00 41 05 bid form.
- .3 Compliance. The MBE/FBE/VBE participation goal dollar value is based upon the total contract sum (including awarded alternates). The participation goal percentage amount(s) shall meet or exceed the goal(s) as specified on the bid form (and in Section 01 11 00 of the project manual), or in an approved change/waiver request (refer to Article 00 43 39 herein).
- .4 **Voluntary.** Contractors are encouraged to utilize MBE/FBE/VBE subcontractors/suppliers for those projects that are not designated for MBE/FBE/VBE participation and complete the 00665 certification form for each MBE/FBE/VBE firm. MBE/FBE/VBE subcontractors/suppliers may be added at any time during the project.
- .5 Subcontracts/Supplier agreements. Copies of subcontracts or supplier agreements (to correspond with each 00665 form) are required to be submitted within ten (10) days of the Notice of Award.

00 51 40 POST AWARD REQUIREMENTS

- .1 Contractor's Duty to Comply. The Contractor may not proceed with the work until the following post award requirements are met. These requirements are part of the contract and failure to comply with these requirements shall constitute a breach of the contract. CDB shall issue Authorization to Proceed upon successful completion of these post award requirements.
- .2 Submittals. Within ten (10) calendar days from the date of the notice of award letter, the Contractor shall furnish, on CDB forms, the following:
 - A. Contract executed by the Contractor:
 - B. Performance Bond:
 - C. Labor and Material Payment Bond;
 - D. Certificates of Insurance;

 - E. Builder's Risk Insurance Policy (if applicable);
 F. MBE/FBE/VBE Subcontractor Supplier Certifications, Form 00665 and MBE/FBE/VBE Subcontractor/Supplier agreements (if applicable);
 - G. Completed substance Abuse Prevention Certification form and Contractor's substance abuse plan (if applicable),
 - H. DHR PC-2 accepted by FEP Technician; and
 - I. Project Labor Agreement signature sheets for the Contractor and known Subcontractors(if applicable).
- .3 Cancellation of Award. All post award requirements are mandatory. Noncompliance shall be cause for CDB to cancel the notice of award and make a claim against the bid security.

- **.4 Post Award Extensions.** CDB may extend the time limitations for good cause. No extension shall operate as a waiver of post award requirements, nor shall it extend the contract completion date.
- .5 **Delays.** Any delays to the commencement of the work due to the Contractor's failure to meet the post award requirements shall be the responsibility of the Contractor and its surety. Contractor and its surety shall be responsible for the costs of any such delays.

00 71 00 DEFINITIONS

- .12 Protected Subcontractors. For a Single Prime Delivery Method Project, a subcontractor identified for a protected trade on the 00 41 00 Bid Form. The subcontractor shall be prequalified with CDB, be properly licensed and certified (if applicable), and perform the minimum amount of the identified trade with its own forces by furnishing and installing the work on-site.
- **.13 Prime Bidding Contractor (Trade)**: For a Single Prime Delivery Method Project, one of the identified protected trades that submits the bid with the intent of entering into the prime construction contract with CDB as the Contractor.

00 72 10 TIME

.5 Approval Authority. Changes in contract time are subject to approval at or above the CDB Regional Manager level.

00 72 25 CDB - RIGHTS AND RESPONSIBILITIES

- .4 Right to Terminate the Contract for Cause.
- .6 Availability of Appropriation; Sufficiency of Funds. The contract is contingent upon and subject to the availability of sufficient funds. CDB may terminate or suspend the contract, in whole or in part, without penalty or further payment being required, if (i) sufficient funds for the contract have not been appropriated or otherwise made available to CDB by the State or the Federal funding source, (ii) the Governor or CDB reserves funds, or (iii) the Governor or CDB determines that funds will not or may not be available for payment. CDB shall provide notice, in writing, to the Contractor of any such funding failure and its election to terminate or suspend the contract as soon as practicable. Any suspension or termination pursuant to this Section will be effective upon the date of the written notice, unless otherwise indicated.
- .7 **Right to Suspend the Contract Without Cause.** CDB may, without cause, order the Contractor in writing to suspend, delay or interrupt the work in whole or in part for such a period of time as CDB may determine, not to exceed 90 days. At the expiration of 90 days, the contract may continue upon written agreement of the parties or may be terminated in writing by either party. The contract may remain suspended at the expiration of 90 days until the parties either agree in writing to continue the contract or until either party terminates the contract in writing. If the parties enter into a written agreement to continue the contract, the contract may remain suspended after the expiration of 90 days.
 - A. The contract time will be adjusted for increases in time caused by the suspension, delay or interruption as described in Article 00 72 10.

B. CDB may decide to terminate the contract under Article 00 72 25 at any time during the period of suspension, delay or interruption.

00 73 17 BONDS, GENERAL

- .1 Requirements. The Contractor shall furnish a performance bond and a labor and material payment bond covering the faithful performance of the contract and the payment of all obligations arising thereunder, in accordance with the Public Construction Bond Act (30 ILCS 550). Each bond shall be in the full amount of the contract on forms provided by CDB and executed by a surety acceptable to CDB.
- **.3** Acceptability. Bonds that meet the requirements of Paragraph 00 73 17.1 shall be acceptable to CDB when issued by a surety that meets all of the following standards:
 - A. Has a current financial strength of at least "A-" as rated by A.M. Best Company, Inc., Moody's Investor Service, Standard & Poor's Corporation, or similar rating agency (30 ILCS 550/1); and a current Best's financial class of at least "V".
 - B. Is duly licensed in the state of Illinois by the Department of Insurance (30 ILCS 550/1) and does not have an unacceptable record of improper conduct or financial problems with the Illinois Department of Insurance.

00 73 40 LICENSING

.1 For Single Prime Delivery Method Projects: When licensure and/or certification is required for an identified trade, the identified protected subcontractors or the Prime Bidder, if self-performing the work, shall be properly licensed and certified at the time of bid to perform the work for the identified trade.

01 29 73.1 SCHEDULE OF VALUES

- F. Provide CDB prequalification/registration ID numbers on the CSV form for subcontractors/suppliers described in 00 21 50.2C.
- G. Identify work performed by MBE/FBE/VBE subcontractors and suppliers on the CSV form.
- H. Revise and resubmit CSV for approval if any substitution or replacement of subcontractors or suppliers occurs.
- I. Revise and resubmit CSV for approval if any change in the contract amount of subcontractors or suppliers other than a change resulting from a change order occurs.

01 29 76 PROGRESS PAYMENT PROCEDURES

- .5 Payments to Subcontractors and Suppliers.
 - D. Subcontractors (as described in 00 21 50.2C.) who have not obtained a CDB ID number and/or have not submitted the required Disclosures and Certifications may have their payment amounts withheld by CDB in addition to any other remedy provided by this contract or by law. No work can be performed by these subcontractors until the Certifications and Disclosure documents have been reviewed and approved by the State Purchasing Officer.

1. General

1.1 REQUIREMENTS INCLUDE:

- A. The contractor shall prepare and maintain a detailed project schedule as described below.
- B. The project schedule shall be the contractor's working schedule; used to execute the work and record and report actual progress. It shall show how the contractor plans to complete the work within the contract time and meet any contractually specified intermediate milestone dates.

1.2 RELATED REQUIREMENTS

- A. Specified Elsewhere:
 - 1. SDC 01 29 00 Payment
 - 2. 01 11 00 Project Summary
 - 3. 01 33 23 Shop Drawings, Product Data and Samples

1.3 FORM OF SCHEDULE

- A. The project schedule shall be in the form of a bar graph for each task, and each area of work.
- B. The schedule shall provide sufficient detail and clarity so that the contractor can plan and control the work and CDB and the A/E can readily monitor and follow the progress of all portions of the work. The critical activities must be clearly shown. The degree of detail must be satisfactory to the A/E and CDB.

1.4 CONTENTS OF SCHEDULE

- A. The schedule must be inclusive of all installation tasks of the work.
- B. Submittal and approval of shop drawings and material samples as well as delivery dates of major equipment shall be included in the project schedule.
- C. Activity duration shall be in whole working days.
- D. There should be at least one activity for each specification section.

1.5 UPDATING

- A. The project schedule shall be updated monthly.
- B. Actual activity completion dates shall be reported and recorded on the schedule.
- C. Progress on uncompleted activities shall be reported.

DIVISION 1 – GENERAL REQUIREMENTS

01 32 00 – Construction Schedule

Non-CPM Option

D. Projected completion dates and activities shall be reviewed and revised if necessary.

1.6 REPORTS AND SUBMITTALS

- A. Within 30 days of the Authorization to Proceed, the contractor shall submit the project schedule to the A/E and CDB.
- B. Five (5) days prior to the pay/progress meeting, the contractor shall submit the current updated schedule to the A/E and CDB.
- C. The schedule shall be presented on *" by *" sheets. Each sheet shall be clearly titled. Intermediate milestones shall be clearly indicated.
- D. A management narrative report indicating the progress of the work, any revisions since last reporting period, any lost time required to be made up and the contractors' plan to maintain the schedule and meet the milestone dates and contract completion will accompany the updated schedule. The report will identify any potential delays and problem areas and their impact on project completion.

1.7 REVIEWS

- A. The A/E and CDB shall review and may comment on the schedule at the pay/progress meeting. They may also attend the update meetings. The contractor(s) shall revise the schedule as directed by the A/E for compliance with the requirements herein.
- B. Payment and reduction of retainage may be denied by CDB for failure to submit a proper schedule and maintaining work progress according to the project schedule.
- C. Neither the A/E's nor CDB's review and/or comments shall indicate approval/disapproval of the schedule. Since the schedule is dependent on the contractors' proprietary information and commitments, the A/E and CDB cannot and will not warrant the schedule to be correct and sufficient to meet the required contract dates.

END 01 32 00.

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. General Contractor make submittals to Architect/Engineer. Architect/Engineer shall maintain a master list of submittals.

1.2 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 02 41 16 Minor Demolition
 - 2. 03 33 23 Cast-In-Place Concrete
 - 3. 05 50 00 Metal Fabrications
 - 4. 06 10 00 Carpentry
 - 5. 07 53 23 EPDM Membrane Roofing
 - 6. 07 72 00 Roof Accessories
 - 7. 07 90 05 Joint Sealers
 - 8. 09 90 00 Painting and Coatings
 - 9. 22 05 00 Plumbing General Provisions
 - 10. 23 05 00 Mechanical General Provisions
 - 11. 26 05 00 Electrical General Provisions

1 3 DEFINITIONS

- A. Shop drawings: Shop drawings are original drawings prepared by Contractor, subcontractor, sub-subcontractor, supplier or distributor, which illustrate some portion of the work, showing fabrication, layout, setting or erection details.
 - 1. Prepared by qualified detailer.
 - 2. Identify details by reference to sheet and detail numbers shown on contract drawings.
 - 3. Maximum sheet size: 36" x *24".
 - 4. Reproductions for submittals: Reproducible Bond
 - 5. Submit (5) copies.

B. Product data:

- 1. Manufacturer's standard schematic drawings, edited to fit this project.
- 2. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations and other standard descriptive data.
 - a. Clearly mark each copy to identify pertinent materials, products or models.
 - b. Show dimensions and clearances.
 - c. Show wiring diagrams and controls.
- C. Samples: Physical samples to illustrate materials, equipment or workmanship. Approved samples establish standards by which complete work is judged. Maintain at site as directed. Protect until no longer needed.
 - 1. Office samples: Of sufficient size to clearly illustrate:

01 33 23 – Shop Drawings, Product Data & Samples

- a. Functional characteristics of product or material.
- b. Full range of color samples.
- c. After review, samples may be used on construction of project.
- 2. Field samples and mock-ups:
 - a. Erect at project site at location approved by Architect/ Engineer.
 - b. Construct each sample or mock-up complete, including work of all crafts required in finished work.
 - c Remove as directed

1.4 SCHEDULE SUBMITTAL

- A. Submit schedule of all exhibits to Architect/Engineer within 30 business days after preconstruction meeting.
 - 1. Prepare schedule in bar chart format. Include:
 - a. Exhibit identification.
 - b. Specification section and page number.
 - c. Date of submittal to Architect/Engineer.
 - d. Latest date for final approval.
 - e. Fabrication time.
 - f. Date of installation.
 - 2. Architect/Engineer will review and comment on exhibit schedule and will advise the contractor as to which submittals require longer review durations.

Submit number of copies of shop drawings, product data and samples which contractor requires for distribution plus (5) copies which will be retained by Architect/Engineer.

- B. Accompany submittals with transmittal letter, in duplicate, containing:
 - 1. Date.
 - 2. Project title and number.
 - 3. Contractor's name and address.
 - 4. The number of shop drawings, product data and samples submitted.
 - 5. Notification of deviations from Contract.
 - 6. Other pertinent data.
- C. Submittals shall include:
 - 1. Date and revision dates.
 - 2. Project title and number.
 - 3. Names of:
 - a. Architect/Engineer.
 - b. Subcontractor.
 - c. Sub-subcontractor.

DIVISION 1 – GENERAL REQUIREMENTS

01 33 23 – Shop Drawings, Product Data & Samples

- d. Supplier.
- e. Manufacturer.
- f. Separate detailer when pertinent.
- 4. Identification of product or material.
- 5. Relation to adjacent structure or material.
- 6. Field dimensions, clearly identified as such.
- 7. Specification section and page number.
- 8. Specified standards, such as ASTM number or ANSI.
- 9. A blank space, 3" x 4", for Architect/Engineer's stamp.
- 10. Identification of previously approved deviation(s) from contract documents.
- 11. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of field measurements and compliance with Contract
- 12. Space for Contractor's approval stamp.

1.5 RESUBMISSION REQUIREMENTS

A. Resubmit all shop drawings, product data, and samples as requested by the contractor and/or A/E.

1.6 RESPONSIBILITIES

- A. Review shop drawings, product data and samples prior to submission to the next level of authority.
- B. Verify:
 - 1 Field dimensions
 - 2. Field construction criteria.
 - 3. Catalog numbers and similar data.
- C. Coordinate each submittal with requirements of:
 - 1 The work
 - 2. The contract documents.
- D. Contractor's responsibility for errors, omissions or deviation from contract documents in submittals is not relieved by Architect/Engineer's review of submittals.
- E. Prior to submission, notify Architect/Engineer and CDB in writing of all proposed deviations in submittals from contract requirements. Substitution of materials or equipment may only be approved by change order.
- F. Do not begin any work which requires submittals without Architect/Engineer's approval.
- G. After Architect/Engineer's review, make response required by A/E's stamp and distribute copies. Indicate by transmittal that copy of approved data has been delivered to installer.

17 ARCHITECT/ENGINEER'S DUTIES

- Review submittals within 14 calendar days. Α
 - 1 Review for:
 - Design concept of project. a
 - Compliance with contract documents. h
 - Review all requests for proposed deviations. Obtain CDB's 2. concurrence and respond to Contractor's request.
 - Affix stamp, date and initials or signature certifying to review of 3. submittal, and with instructions for contractor response.
 - Return submittals to sender for response or distribution. 4.

18 SUBMITTALS SCHEDULE

- General Contractor shall provide submittals for the following sections: A.
 - 1. 02 41 16 - Minor Demolition
 - a Demolition and Removal Procedures/Schedule
 - 2 03 33 23 - Cast-In-Place Concrete
 - a. Product data
 - h
 - 3 05 50 00 – Metal Fabrications
 - a. Product data
 - b. Samples / Mock-up
 - 06 10 00 Carpentry 4.
 - a Product data
 - b. Samples / Mock-up
 - c. Certification
 - 07 53 23 EPDM Membrane Roofing 5.
 - a. Product Data
 - b. Shop Drawings
 - c. Warrantyd. Samples
 - 07 72 00 Roof Accessories
 - a Product Data
 - b. Shop Drawings
 - c. Warranty
 - d. Samples
 - 07 90 05 Joint Sealers
 - a Product Data
 - b. Installation Procedures
 - c. Mix Designs

<u>DIVISION 1 – GENERAL REQUIREMENTS</u>

01 33 23 – Shop Drawings, Product Data & Samples

- d. Samples
- 8. 09 90 00 Paintings and Coatings
 - a. Product Data
 - b. Shop Drawingsc. Warrantyd. Samples
- 22 05 00 Plumbing General Provisions
 - a. Product Data
 - b. Shop Drawings
- 10. 23 05 00 Mechanical General Provisions
 - a. Product Data
 - b. Shop Drawings
- 11. 26 05 00 Electrical General Provisions
 - a. Product Data
 - b. Shop Drawings

END 01 33 23

1.1 REQUIREMENTS INCLUDE

A. General Contractor:

- 1. Coordinate work of employees and subcontractors.
- 2. Schedule elements of remodeling and renovation work to expedite completion.
- 3. Schedule noisy or hazardous work to avoid problems with Using Agency's operations.
- 4. In addition to demolition, cut, move or remove existing construction to provide access or to allow remodeling and new work to proceed. Include:
 - a. Repair or remove hazardous or unsanitary conditions.
 - b. Remove abandoned piping, conduit and wiring.
 - c. Remove unsuitable or extraneous materials not marked for salvage, such as abandoned furnishings and equipment, and debris such as rotted wood, rusted metals and deteriorated concrete.
 - d. Clean surfaces. Remove surface finishes to install new work and finishes.
- 5. Patch, repair and refinish existing items to remain, to the specified condition for each material, with a neat transition to adjacent new construction.
- 6. Note or record existing project conditions before beginning work to minimize later disputes.

1.2 RELATED REQUIREMENTS

A. Specified elsewhere:

- 1. 01 32 00 Construction Schedules.
- 2. 01 51 00 Temporary Utilities.
- 3. 01 54 00 Construction Aids
- 4. 01 73 29 Cutting & Patching
- 5. 01 74 13 Construction Cleaning
- 6. 01 74 23 Final Cleaning.

1.3 SEQUENCE AND SCHEDULES

- A. Submit separate detailed sub-schedule for alterations work, coordinated with Construction Schedule. Show:
 - 1. Each stage of work; occupancy dates of areas.
 - 2. Date of Substantial Completion for each area of alteration work.
 - 3. Crafts and subcontractors employed in each stage.

1.4 ALTERATIONS, CUTTING AND PROTECTION

- A. Cut finish surfaces such as masonry, tile, plaster or metals, by methods to terminate surfaces in a straight line at a natural point of division.
- B. Protect existing and new work from weather and temperature extremes.
 - 1. Maintain existing interior work above 60 degrees F.
 - 2. Provide weather protection, waterproofing, heat and humidity control to prevent damage to remaining existing work and to new work.
- C. Provide temporary enclosures specified in 01 54 00, to separate work areas from existing building and from areas occupied by Using Agency, and to provide weather protection.
- D. Items of construction, furnishings and articles having a historic or private value discovered during progress of the work shall remain in the Using Agency's possession and ownership.
 - 1. Promptly notify Architect/Engineer.
 - 2. Protect items from damage from weather and work.
 - 3. Architect/Engineer will promptly transmit CDB's decision for disposition of discovery.
 - 4. Store items to be retained by owner in a safe, dry place on site. Dispose of items which CDB releases.

2. PRODUCTS

2.1 MATERIALS FOR PATCHING, EXTENDING AND MATCHING

- A. Ensure that work is complete:
 - 1. Provide same materials or types of construction as that in existing structure, to patch, extend or match existing work.

3. EXECUTION

- 3.1 REMOVE EXISTING CONSTRUCTION
 - A. Remove and dispose of: Existing roofing membrane and insluation.
- 3.2 PERFORMANCE. Patch and extend existing work using skilled craftsmen capable of matching existing quality of workmanship. For patched or extended work, provide quality equal to that specified for new work.
- 3.3 ADJUSTMENTS
 - A. Where partitions are removed, patch floors, walls and ceilings with finish materials to match existing as closely as possible.
 - 1. Where removal of partitions results in adjacent spaces becoming one, rework floors and ceilings to provide smooth planes without breaks, steps or bulkheads.

- 2. Where extreme change of plane of (*two inches) or more occurs, request instructions from Architect/Engineer.
- B. Trim and refinish existing doors to clear new floors.

3.4 DAMAGED SURFACES

- A. Patch and replace all portions of existing finished surfaces found to be damaged, lifted, discolored or showing other imperfections, with matching material.
 - 1. Provide adequate support prior to patching the finish.
 - 2. Refinish patched portions of painted or coated surfaces in a manner to produce uniform color and texture over entire surface.
 - 3. When existing surface cannot be matched, refinish entire surface to nearest intersections.

3.5 TRANSITION FROM EXISTING TO NEW WORK

- A. When new work abuts or finishes flush with existing work, make a smooth transition. Patched work shall match existing adjacent work in texture and appearance as closely as possible.
 - 1. When finished surfaces are cut in such a way that a smooth transition with new work is not possible, terminate existing surface in a neat manner along a straight line at a natural line of division, and provide trim appropriate to finished surface.

3.6 CLEANING

- A. Perform construction cleaning as specified in 01 74 13.
 - 1. Clean User occupied areas daily.
 - 2. Clean all spillage, overspray or heavy dust collections in User occupied areas immediately.
- B. At completion of work of each craft, clean area and make surfaces ready for work of successive crafts.
- C. At completion of alterations work in each area, provide final cleaning in accord with 01 74 23 and return space to a condition suitable for use of User.

END 01 35 16.

1.1 REQUIREMENTS INCLUDE

- A. General Contractor comply with all laws, rules and regulations governing the work.
 - 1. When Contractor observes that contract documents are at variance with specified codes, notify Architect/Engineer in writing immediately. Architect/Engineer will process changes in accord with General Conditions.
 - 2. When Contractor performs any work knowing or having reason to know that the work is contrary to such laws, rules and regulations and fails to so notify the Architect/Engineer, Contractor shall pay all costs arising therefrom. However, it will not be the Contractor's primary responsibility to make certain that the contract documents are in accord with such laws, rules and regulations.

1.2 DEFINITIONS & ABBREVIATIONS

A. Definitions:

- 1. Dates: Reference Codes, Regulations and Standards are the issue current at date of bidding documents unless otherwise specified.
- 2. Codes: Codes are rules, regulations or statutory requirements of government agencies.
- 3. Standards: Standards are requirements set by authorities, custom or general consent and established as accepted criteria.

B. Abbreviations:

1.	ADA	Americans with Disabilities Act.
2.	AGCI	Associated General Contractors in Illinois.
3.	ANSI	American National Standards Institute.
4.	ASHRAE	American Society of Heating, Refrigeration and Air-
		Conditioning Engineers.
5.	ASTM	American Society for Testing and Materials.
6.	CDB	Capital Development Board.
7.	FED	Federal Agencies.
8.	FM	Factory Mutual Engineering Corp.
9.	IBHE	Illinois Board of Higher Education.
10.	IDOL	Illinois Department of Labor.
11.	IDPH	Illinois Department of Public Health
12.	IEPA	Illinois Environmental Protection Agency.
13.	IDPR	Illinois Department of Professional Regulation.
14.	ISPE	Illinois Society of Professional Engineers.
15.	NFPA	National Fire Protection Association.
16.	OSFM	Office of State Fire Marshal.
17.	UL	Underwriters Laboratories, Inc.

1.3 QUALITY ASSURANCE

A. Architect/Engineer has designed the project with full knowledge of code requirements and has copies of all specified codes available for Contractor's inspection.

B. Contractor:

- 1. Ensure that copies of specified codes and standards are readily available to Contractor's personnel. Copies are available at Contractor's expense from source or publisher.
- 2. Ensure that Contractor's personnel are familiar with workmanship and installation requirements of specified codes and standards.

1.4 REGULATORY REQUIREMENTS

A. Source and requirements:

1. CDB:

- a. Illinois Accessibility Code
- b. Illinois Energy Conservation Code

2. State of Illinois:

- a. Illinois Steel Products Procurement Act, as amended (30 ILCS 565/1 et seq.).
- b. Illinois Procurement Code, as amended (30 ILCS 500/1 et. seq.)
- c. Illinois Domestic Products Act, as amended (30 ILCS 517 et seq).

3. IDPH:

- a. Illinois State Plumbing Code.
 - 1.) Illinois Asbestos Abatement Act (105 ILCS 105/1 et. seq.).
 - 2.) Rules and Regulations for the Asbestos Abatement Act Title 77, ch. I, subch. p. Part 855.
- 4. IDPR: Illinois Roofing Industry Licensing Act, as amended (225 ILCS 335/1 et. seq.).

5. IEPA

- a. Air Pollution Standards.
- b. Noise Pollution Standards.
- c. Solid Waste Standards.
- d. Hazardous Waste Crane and Hoisting Equipment Operators Licensing Act, 225 ILCS 220/1 et. seq.

<u>DIVISION 1 – GENERAL REQUIREMENTS</u>

01 41 00 – Regulatory Requirements

e. Hazardous Waste Laborers Licensing Act, 225 ILCS 221/1 et. seq.

Toxic Substance Control Act.

- 6. STANDARDS:
 - a. ASHRAE No. 90.1-2001, Energy Standard for Buildings Except Low-Rise Residential Buildings.
- 7. NFPA: National Fire Codes
 - a. 70-2017, National Electrical Code
 - b. 101-2018, Life Safety Code
- 8. 2012 International Building Code (IBC)
- B. The Architect/Engineer or CDB may reference other codes or standards throughout the Project Manual when deemed appropriate for proper compliance with regulatory requirements.

END 01 41 00.

- 1.1 REQUIREMENTS INCLUDE. Designated contractor provide and maintain specified temporary utilities during construction period.
 - A. General Contractor Provide:
 - 1 Toilets
 - A. Each Contractor:
 - 1. All utilities required in excess of those specified, or exceed capacity of existing or permanent system(s).
 - 2. Hoses and fittings from temporary standpipes or water service connection.
 - 3. Drinking water for own forces.

1.2 RELATED REQUIREMENTS

- A. Furnished by others:
 - 1. Using Agency will authorize use of existing facilities or services for temporary use.
 - a. Electrical power service.
 - b. Water service.
 - 2. Contractor requiring Using Agency furnished services provide and pay for extension or modification of services to perform the work, and for restoration of services at completion of work.

1.3 DEFINITIONS

- A. Temporary Enclosure: Sufficient enclosure of an area, structure or building to prevent entrance or infiltration of rainwater, wind or other natural elements, and which will prevent undue heat loss from within enclosed areas.
- B. Permanent Enclosure: Stage of construction at which all moisture and weather protection elements of construction have been installed in accord with the contract for the building or part thereof. The A/E may certify in writing that the building or defined portion thereof is substantially permanently enclosed when walls, windows, and roof are complete and openings left for construction access are adequately closed with movable material having an "R" value equivalent to the finished opening.
- 1.4 DESCRIPTION OF TEMPORARY UTILITY SYSTEMS
 - A. Water service:

01 51 00 – Temporary Utilities

- 1. Provide and maintain temporary water service throughout construction period.
 - a. For construction purposes:
 - 1.) Provide service standpipe.
 - 2.) Provide a water service connection on each floor or where shown on drawings.
 - 3.) Minimum discharge at water service connection not required for fire protection: 25 psi.
 - 4.) Provide backflow protection.
 - 5.) Each contractor and subcontractor shall provide their own water hoses from hose bibbs to point of his operations.

A. Toilets:

- 1. Provide temporary toilet facilities for use of all workmen and authorized parties throughout construction period.
- 2. Provide a minimum number of enclosed combination toilet and urinal units for construction personnel:
 - a. One for every 20 employees, or fraction thereof.

1.5 REQUIREMENTS OF REGULATORY AGENCIES

- A. Only on CDB's prior written authorization, obtain:
 - 1. Permits and inspections.

1.6 USE OF PERMANENT SYSTEMS FOR CONSTRUCTION PURPOSES

- A. Obtain CDB's prior written authorization for system to be used. Request for authorization shall indicate:
 - 1. Reason for use.
 - 2. Conditions of use.
 - 3. Parts of system to be used.
 - 4. Modifications necessary.
 - 5. Isolation of elements not authorized for use.
 - 6. Approval of installing contractor.
- B. Modifications necessary shall be at contractor's expense, since use of permanent systems is for contractor's benefit.
- C. Upon completion of need to use permanent system, or when directed by A/E restore permanent system to specified condition prior to substantial completion.
 - 1. Repair or restore all damaged parts or components.
- D. CDB's authorization for use of permanent systems will not relieve Contractors' responsibility for warranties in accordance with the General Conditions.

E. NOTE: The above does <u>not</u> prohibit installing contractor from normal test and check out of system.

1.7 USE OF USING AGENCY'S EXISTING SYSTEMS

- A. Make written arrangements with Using Agency's representative.
- B. General Contractor shall modify, supplement and extend system to meet temporary utility requirements for project, subject to approval of Architect/Engineer and Using Agency.

C. Limitations:

- 1. Do not overload systems. When project requirements exceed system capacity, provide separate system to meet needs.
- 2. Prevent interference with Using Agency's normal use of system.
- D. Maintain strict supervision of use of temporary facilities.
 - 1. Enforce conformance with Using Agency's regulations.
 - 2. Use only designated facilities, systems or portions thereof.
- E. Upon completion of need to use existing systems, or when directed by Architect/Engineer, restore existing systems to specified permanent condition.

2. PRODUCTS

2.1 MATERIALS. May be new or used, but shall be adequate for purposes used, shall not create unsafe or unsanitary conditions, nor violate applicable codes.

3. EXECUTION

3.1 INSTALLATION

A Electrical:

- 1. Do not run branch circuits on floor or on ground.
- 2. Verify proper operation of all safety devices.

B. Water service:

- 1. Do not run piping on floor or on ground.
- 2. Provide drip pan under each water service connection located within building.
- 3. Provide insulation, or other means, to prevent pipes from freezing.
- 4. When necessary to maintain pressure, provide temporary pumps, tanks and compressors.

C. Toilets:

1. Service regularly.

<u>DIVISION 1 – GENERAL REQUIREMENTS</u>

01 51 00 – Temporary Utilities

3.2 REMOVAL

- A. Upon CDB's prior written authorization, completely remove temporary materials and equipment.
- B. Repair all damage caused by temporary utilities' installation. Restore to original conditions.

3.3 MAINTENANCE

- A. Maintenance of permanent system when used for construction purposes:
 - 1. Permanent systems shall be maintained by installing contractor so as to prevent any damage thereto.

END 01 51 00.

- 1.1 The project will be constructed at an occupied facility. These requirements supplement the Standard Documents for Construction and other sections of the Project Manual.
- 1.2 The Using Agency will occupy area(s) for purpose of office areas, classes and meetings.
- 1.3 REQUIREMENTS INCLUDE General Contractor provide:
 - A. Scheduling
 - B. Security and site regulations
 - C. Entrances
 - D. Construction aids
 - E. Temporary enclosures and barriers
 - F. Fences
 - G. Temporary utilities
 - H. Access roads & parking areas
 - I. Traffic regulation
 - J. Construction Cleaning
 - K. Storage
 - L. Close-out

1.4 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 01 35 16 Remodeling Project Procedures

2. EXECUTION

2.1 SCHEDULING

- A. Schedule the work to allow the User Agency to conduct normal operations with as minimum interruptions as possible. Submit separate detailed subschedule showing:
 - 1. Each stage of work; occupancy dates of areas.
 - 2. Date of Substantial Completion for each area of work.
- B. Schedule noisy or hazardous work to avoid problems with Using Agency's operations.

2.2 SECURITY AND SITE REGULATIONS

- A. Confer with the Using Agency's representative and obtain full knowledge of all site rules and regulations affecting work.
- B. Provide control of all persons and vehicles entering and leaving project site.

- C. Do not take photographs of any kind except with prior written authorization from CDB and Using Agency.
- 2.3 ENTRANCES Contractor shall use main entrance to the site or buildings that are not restricted for construction use.
- 2.4 CONSTRUCTION AIDS Contractor provide and maintain construction aids and equipment for common use and to facilitate execution of the work.
 - A. All stairs in existing building may be used by construction personnel.
 - B. Elevators in existing building may be used for construction purposes:
- 2.1 TEMPORARY ENCLOSURES AND BARRIERS General Contractor:
 - A. Provide temporary enclosures to separate work areas from existing building and from areas occupied by Using Agency.
 - B. Provide and maintain suitable barriers to prevent unauthorized entry, and to protect the work.

2.2 TEMPORARY UTILITIES

- A. Using Agency will authorize use of existing facilities or services:
 - 1. Electrical power service.
 - 2. Normal lighting.
 - 3. Water service.
- B. Make written arrangements with Using Agency's representative.
- C. Prevent interference with Using Agency's normal use of system.
- D. General Contractor shall modify, supplement and extend systems to meet temporary utility requirements for project, subject to approval of Architect/Engineer and Using Agency. Modifications shall be at contractor's expense.
- E. Using Agency will pay all costs of consumables (except toll calls) used for construction purposes for utilities it furnishes.
- F. Contractor requiring facilities or services beyond those available from the User shall provide and pay for extension or modification of services to perform the work, and for restoration of services at completion of work.

2.3 ACCESS ROADS & PARKING AREAS

- A. Existing on-site streets and driveways may be used for construction traffic. Maintain existing condition.
- B. Designated areas of existing parking facilities may be used for parking of construction personnel's private vehicles and of contractor's <u>lightweight</u> (not exceeding a B plate) vehicles.

<u>DIVISION 1 – GENERAL REQUIREMENTS</u>

01 51 50 – Use of Existing Facilities

- C. Maintain roads, walks and parking areas in a sound, clean condition. Restore to original condition upon work completion prior to Final Acceptance.
- D. Control vehicular parking to preclude interference with public traffic or parking, access by emergency vehicles, Using Agency's operations or construction operations.
- 2.4 TRAFFIC REGULATION General Contractor provide traffic control and directional signs, mounted on barricades or standard posts:
 - A. At each change of direction of a roadway and at parking areas.

2.5 CONSTRUCTION CLEANING

- A. General Contractor provide cleaning and disposal of waste materials, debris and rubbish during construction.
- B. General Contractor provide covered containers for deposit of waste materials, debris and rubbish.
- C. Clean User occupied areas daily.

2.6 FIELD OFFICES

- A. Make arrangements with User Agency Representative for use of Conference Room for project meetings.
- 2.1 STORAGE Make arrangements with Using Agency's Representative for any on-site storage of materials and equipment to be installed in project. Protection and security for stored materials and equipment is solely contractor's responsibility.

2.2 CLOSEOUT

- A. Upon completion of need to use existing user-provided facilities, or when directed by Architect/Engineer, restore each to original or specified condition.
- B. At completion of work in each area, provide final cleaning and return space to a condition suitable for use of User.

END 01 51 50

GENERAL

1.1 REQUIREMENTS INCLUDE

- A. General Contractor: Provide and maintain construction aids and equipment for common use and to facilitate execution of the work:
 - 1. Chutes.
 - 2. Cranes.
 - 3. Hoists.
 - 4. Platforms.
 - 5. Railings.
 - 6. Ramps.
 - 7. Runways.
 - 8. Stairs.
 - 9. Temporary enclosures.
- B. General Contractor: Provide and maintain for his own forces all other construction aids required to complete his work.

1.2 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 01 56 00 Barriers.

2. PRODUCTS

2.1 MATERIALS. Materials may be new or used. Comply with specified codes and standards.

2.2 CONSTRUCTION AIDS

- A. Stairs in existing building may be used by construction personnel:
- B. When permanent stair framing is in place, provide temporary treads, platforms and railings for use by construction personnel.
- C. Elevators in existing building may be used for construction purposes:

2.1 TEMPORARY ENCLOSURES

- A. Provide temporary weather-tight enclosure of exterior walls for successive areas of building as work progresses, to provide acceptable working conditions, provide weather protection for materials, allow for effective construction heating, and to prevent entry of unauthorized persons.
 - 1. Provide temporary exterior doors with self-closing hardware and padlocks.

<u>DIVISION 1 – GENERAL REQUIREME</u>NTS

01 54 00 – Construction Aids

- 2. Provide other enclosures, removable, for work and handling of materials
- B. Provide temporary enclosures to separate work areas from existing areas occupied by Using Agency.
 - 1. Temporary partition and ceiling enclosures.
 - a. Close joints between sheet materials and seal edges and intersections with existing surfaces to prevent penetration of dust, fumes or moisture.
 - b. In locations where fire protection is required, paint both sides of partitions with noncombustible paint.

3. EXECUTION

3.1 PREPARATION. Consult with Architect/Engineer, review site conditions and factors which affect construction procedures and construction aids, including adjacent properties and public facilities which may be affected by execution of the work.

3.2 REMOVAL

- A. Remove temporary materials, equipment and services.
 - 1. When construction needs can be met by authorized use of permanent construction or when authorized by the A/E.
- B. Clean and repair damage caused by installation or use of temporary facilities.
- C. Restore facilities used for temporary purposes to original condition.

END 01 54 00.

<u>DIVISION 1 – GENERAL REQUIREMENTS</u> 01 56 00 - Barriers

- 1. GENERAL
 - 1.1 Work Includes:
 - A. Base Bid:
 - 1. General Contractor provide fencing
 - a. 6'0" high open mesh chain link fence.
 - 2. Maintain fences and barriers during entire construction period. Relocate as construction progresses.

End 01 56 00

A. REQUIREMENTS INCLUDE

- 1. Work includes: General Contractor provide and maintain:
 - a. Storage for materials and equipment to be installed in Project.
 - b. Protection and security for stored materials and equipment, on and off site.
- B. OFF-SITE AUTHORIZATION. Payment for materials/equipment stored off-site will be permitted only on CDB's prior written authorization, per <u>Standard Documents</u> for Construction.

2. PRODUCTS

A. PROTECTIVE MATERIALS

i. For duration of storage period, provide materials which will provide proper protection against the elements or other harmful environmental conditions.

3. EXECUTION

A. LOCATION.

- 1. Where shown on drawings, or where authorized by Using Agency.
- 2. General Contractor will resolve conflicts in storage requirements of all contractors.
- B. PREPARATION. Fill and grade sites for temporary storage sheds to provide drainage.

C INSTALLATION

- 1. Construct storage sheds on adequate foundations, with connections for utilities.
 - a. Raise portable buildings, when used.
 - b. Provide steps, landings or ramps at entrances.
- 2. Mount fire extinguishers in prominent locations with clear access to use.
- 3. Mount identifying signs adjacent to entrance doors, in conspicuous locations.

A. MAINTENANCE AND CLEANING

- 1. Provide continuous maintenance for all temporary structures.
- B. REMOVAL

DIVISION 1 – GENERAL REQUIREMENTS 01 66 00 – Storage & Protection

- 1. When project is substantially closed in, with utilities and services suitable for use, and upon CDB's prior written authorization, move stored materials or equipment into designated areas of building(s). Remove temporary structures. (*Verify that spaces are designated on drawings, or specify spaces which may be so used. Coordinate with 01 11 00.)
- 2. Remove foundations, debris; grade to indicated elevations and clean area.

END 01 66 00

1 GENERAL

1.1 REQUIREMENTS INCLUDE

A. General Contractor:

- 1. Execute cutting, filling or patching of work to:
 - a. Install specified work.
 - b. Remove samples of installed work specified for testing.
 - c. Remove and replace defective work.
- 2. In addition, upon written instructions of Architect/Engineer or CDB:
 - a. Uncover work to provide for observation of covered work.
 - b. Remove samples of installed materials for testing.
 - c. Remove work to provide for alteration of existing work.
- 3. Do not cut or alter work of another contractor without written consent of Architect/Engineer.

1.2 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. Section 06 10 00 Carpentry
 - 2. Section 07 53 23 EPDM Membrane Roofing
 - 3. Section 07 72 00 Roof Accessories
 - 4. Section 07 90 05 Joint Sealers

1.3 SUBMITTALS

- A. Prior to cutting which affects structural members or work of another contractor, submit written notice to Architect/Engineer requesting consent to proceed with cutting, including:
 - 1. Project identification.
 - 2. Description of affected work.
 - 3. Necessity for cutting.
 - 4. Effect on other work, on structural integrity of project.
 - 5. Description of proposed work. Designate:
 - a. Scope of cutting and patching.
 - b. General Contractor and Crafts to execute the work.
 - c. Products proposed to be used.
 - d. Extent of refinishing.
 - 6. Alternatives to cutting and patching.
 - 7. Designation of party responsible for cost of cutting and patching.

- B. Prior to cutting and patching done on instruction of Architect/ Engineer, submit cost estimate.
- C. When conditions of work, or schedule, indicate change of materials or methods, submit recommendation to Architect/Engineer, including:
 - 1. Condition indicating change.
 - 2. Recommendation for alternative materials or methods.
 - 3. Submittals specified for substitutions.
- D. Submit written notice to Architect/Engineer, designating time work will be uncovered, to provide for observation.

1.4 PAYMENT FOR COSTS

- A. Costs caused by ill-timed or defective work, or work not conforming to contract documents, including costs for additional services of Architect/Engineer: Party responsible for ill-timed, rejected or non-conforming work.
- B. Work done on instructions of Architect/Engineer (by change order), other than defective or non-conforming work: CDB.

2. PRODUCTS

1.1 MATERIALS. For replacement of work removed: Comply with specifications for type of work to be performed.

3. EXECUTION

1.1 INSPECTION

- A. Inspect existing conditions of work, including elements subject to movement or damage during:
 - 1. Cutting and patching.
- B. After uncovering work, inspect conditions affecting installation of new products.

1.2 PREPARATION

- A. Prior to cutting:
 - 1. Provide shoring, bracing and support to maintain structural integrity of project.
 - 2. Provide protection for other portions of the project.
 - 3. Provide protection from elements.

1.3 PERFORMANCE

A. Execute fitting and adjustment of products to provide finished installation to comply with specified tolerances, finishes.

<u>DIVISION 1 – GENERAL REQUIREMENTS</u> 01 73 29 – Cutting & Patching

- B. Execute cutting and demolition by methods which will prevent damage to other work, and will provide proper surfaces to receive installation of repairs and new work.
- A. Restore work which has been cut or removed; install new products to provide completed work in accord with contract documents.
- B. Refinish entire surfaces to provide an even finish.
- 1. Continuous surfaces: To nearest intersection(s).
- 2. Assembly: Entire refinishing.

END 01 73 29.

1.1 REQUIREMENTS INCLUDE

A. General Contractor: Supervise and coordinate cleaning operations of all assigned Contractors.

1.2 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 01 35 16 Remodeling Project Procedures: cleaning Using Agency occupied spaces.
 - 2. Individual Specification Sections: specific cleaning for product or work.

2. PRODUCTS

A. None

3. EXECUTION

3.1 CLEANING*

A. General Contractor coordinate and supervise cleanup of areas disturbed construction.

3.2 DISPOSAL

Dispose of all construction waste: haul off-site for depositing in an approved landfill.

END 01 74 13.

1.1 REQUIREMENTS INCLUDE

- A. General Contractor: Provide final cleaning:
 - 1. At completion of work, or at such other times as directed by the Architect/Engineer, remove all waste, debris, rubbish, tools, equipment, machinery and surplus materials. Clean all sight exposed surfaces; leave work clean and ready for occupancy.
- B. General Contractor:
 - 1. Supervise and coordinate the cleaning operations of all Assigned Contractors.
 - 2. At project completion, leave project clean, ready for occupancy.

1.2 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 01 74 13 Construction Cleaning.
- 2. PRODUCTS
 - 2.1 None
- 3. EXECUTION
 - 3.1 FINAL CLEANING
 - A. Employ experienced workmen for final cleaning.
 - B. Remove grease, dust, dirt, stains, labels, fingerprints, protection and other foreign materials from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to specified finish.
 - 1. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed interior and exterior surfaces, and of concealed spaces to ensure performance.
 - C. Repair, patch and touch up marred surfaces to specified finish, to match adjacent surfaces.
 - D. General Contractor soft broom clean all exposed concrete surfaces clean; other paved areas with soft or stiff broom as directed. Rake clean other surfaces on grounds.
 - E. General Contractor sweep and mop clean all resilient flooring.

DIVISION 1 – GENERAL REQUIREMENTS 01 74 23 – Final Cleaning

- F. General Contractor vacuum clean all carpet.
- G. General Contractor maintain finally cleaned areas until project, or designated portion thereof, is accepted by CDB.

END 01 74 23.

01 78 23 – Operating & Maintenance Data

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. Each Contractor provide Operating and Maintenance Data in accordance with Article 01 78 23 of the Standard Documents for Construction and the Project Manual.

2. REQUIRED SUBMITTALS

- 2.1 General Contractor provide:
 - A. Section 05 50 00 Metal Fabrications
 - 1. Product data
 - 2. As-installed color coding charts and diagrams
 - 3. Manufacturer's instructions for maintenance, and service and care
 - 4. Shop drawings
 - B. Section 07 53 23 EPDM Membrane Roofing
 - 1. Product data
 - 2. As-installed color coding charts and diagrams
 - 3. Manufacturer's instructions for maintenance, and service and care
 - 4. Shop drawings
 - 5. Warranties & bonds
 - 6. Overall system diagrams for use by operations and maintenance personnel
 - C. Section 07 72 00 Roof Accessories
 - 1. Product data
 - 2. As-installed color coding charts and diagrams
 - 3. Manufacturer's instructions for maintenance, and service and care
 - 4. Shop drawings
 - 5. Warranties & bonds
 - 6. Overall system diagrams for use by operations and maintenance personnel
 - D. Section 07 90 05 Joint Sealers
 - 1. Product data
 - 2. As-installed color coding charts and diagrams
 - 3. Manufacturer's instructions for maintenance, and service and care
 - 4. Shop drawings
 - 5. Warranties & bonds
 - 6. Overall system records for use by operations and maintenance personnel
 - E. Section 09 90 00 Paints and Coating
 - 1. Product data

<u>DIVISION 1 – GENERAL REQUIREMENTS</u>

01 78 23 – Operating & Maintenance Data

- As-installed color coding charts and diagrams
 Manufacturer's instructions for maintenance, and service and care
- Shop drawings
- 5. Warranties & bonds
- 6. Overall system diagrams for use by operations and maintenance personnel

END 01 78 23.

DIVISION 1 - GENERAL REQUIREMENTS 01 78 36 - Extended Warranties & Bonds

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. General Contractor shall warrant their work in accordance with the Standard Documents for Construction. In addition, the following extended Warranties and Bonds shall be provided as specified.

2. EXTENDED WARRANTIES AND BONDS

- 2.1 General Contractor Provide:
 - A. Section 07 53 23 EMDM Membrane Roofing
 - 1. 2 years in accord with the Standard Documents for Construction Section 01 78 36.
 - 2. Manufacturer's 20 years.
 - B. Section 07 90 05 Joint Sealers
 - 1. 10 years

END 01 78 36.

1.1 REQUIREMENTS INCLUDE

A. (*Each) Contractor:

- 1. At project site, maintain one record copy of
 - a. Contract drawings, including separate volume(s) of details.
 - b. Project Manual.
 - c. Interpretations and supplemental instructions.
 - d. Addenda.
 - e. Reviewed, approved shop drawings and product data.
 - f. Other modifications to contract.
 - g. Field test records.
 - h. All schedules.
 - i. Correspondence file.
- 2. Store documents with Construction Foreman, apart from documents used for field construction.
- 3. File documents in format in accord with Project Manual Table of Contents
- 4. Maintain documents in clean, dry, legible condition.
- 5. Do not use record documents for field construction purposes.
- 6. Make documents available at all times for inspection by Architect/Engineer and CDB.

1.2 RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 01 33 23 Shop Drawings, Product Data & Samples.
 - 2. 01 78 23 Operating & Maintenance Data.
 - 3. 01 78 36 Warranties & Bonds.

1.3 RECORDING

- A. Label each document "PROJECT RECORD DOCUMENTS" in 2" high printed letters.
- B. Keep record documents current.
- C. Do not permanently conceal any work until specified information has been recorded.
- D. Contract drawings: Legibly mark to record actual construction:
 - 1. Field changes of dimension and detail.
 - 2. Changes made by change order.
 - 3. Details not on original contract drawings.

DIVISION 1 – GENERAL REQUIREMENTS

01 78 39 – Project Record Documents

- E. Specifications and addenda: Legibly mark up each section to record:
 - 1. Manufacturer, trade name, catalog number, and supplier of each product and item of equipment actually installed.
 - 2. Changes made by change order or field order.
 - 3. Other matters not originally specified.
- F. Shop drawings: Maintain as record documents; legibly annotate drawings to record changes made after review.
- G. A/E will periodically review documents to confirm they are up-to-date. Contractor payment may be withheld or reduced if record documents are not current.

1.4 SUBMITTAL

- A. At completion of project, deliver record documents to A/E.
- B. Accompany submittal with transmittal letter, in duplicate, containing:
 - 1. Date.
 - 2. Project title and number.
 - 3. Contractor's name and address.
 - 4. Title and number of each record document.
 - 5. Certification that each document submitted is complete and accurate.
 - 6. Signature of contractor, or his authorized representative.

END 01 78 39.

Section 02 26 25 – Asbestos Roof Removal

PART 1 GENERAL

1.1 WORK INCLUDES

A. Base Bid:

- 1. Remove and dispose of designated existing roofing, including non-friable asbestos containing materials.
- 2. By Others:
 - a. General Contractor Perform Area Air Monitoring

1.2 REGULATORY REQUIREMENTS

A. Federal Requirements:

- 1. NESHAP National Emissions Standards for Hazardous Air Pollutants.
 - a. Notifications
 - b. Disposal
- 2. OSHA-Occupational Safety and Health Administration, 200 Constitution Avenue,

Washington, DC 20210.

- a. Exposure Limits
- b. Respiratory and Personal Protective Equipment.
- c. Removing roofing material which contains asbestos containing materials.

1.3 EXISTING CONDITIONS

A. The roofing removal portion of the project scope of work consists of the tear-off of all existing roofing materials (including asbestos containing roof flashings) as designated on the Drawings. The asbestos containing roofs are as noted on the Drawings. See the Asbestos Analysis Report following for locations of asbestos containing roof layers.

1.4 QUALITY CONTROL

A. Air Monitoring:

- 1. Area air monitoring will be performed by an independent air sampling professional (ASP) employed by the General Contractor to determine if airborne concentrations of asbestos in the regulated area(s) are in excess of 0.1 f/cc [8-hour time weighted average permissible exposure limit (PEL)] or 1.0 f/cc [30-minute Excursion Limit (EL)].
- 2. Ventilation systems must be shut down during non-friable asbestos roof removal.
- 3. If the initial air monitoring reveals that employee exposure is below the permissible

exposure limit and excursion limit, sampling will be discontinued. Air sampling shall be resumed any time the method of removal changes or power equipment is used in the removal process.

1.5 SUBMITTALS

A. Complete the Notification of Demolition and Renovation Form. Ensure notification is postmarked or hand delivered to IEPA at least ten working days prior to the start of any construction.

1. IL Environmental Protection Agency

P.O. Box 19276

1021 N. Grand Ave East

Springfield, IL 62794-9276

2. Submit a copy of the EPA notification form to A/E.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 PREPARATION

- A. Shut down ventilation system and protect rooftop ventilation system intakes and exhausts by covering with one layer of 6-mil poly.
- B. Protect existing items not indicated to be demolished.
- C. Restricted Area:
 - 1. Establish a restricted area in all work areas where non-friable roofing ACM is to be removed. Post and limit access to the restricted area to authorized persons.
 - 2. Allow no eating, drinking, smoking, tobacco or gum chewing, or application of cosmetics.

3.2 RESPIRATORS

- A. Upon request of the worker, the contractor shall provide the worker with a respirator and protective clothing.
- B. Whenever respirators are used, provide evidence of worker training, respirator fit testing, and medical surveillance programs.

3 3 NON-FRIABLE ASBESTOS REMOVAL

- A. Remove all designated asbestos containing roofing material in accordance with 29 CFR 1926.1101(g)(8)(ii) including, but not limited to:
 - 1. Roofing material shall be removed in an intact state to the extent feasible.
 - 2. Wet methods shall be used to remove roofing materials that are not intact, or that will be rendered not intact during removal, unless such wet methods are not feasible or will create safety hazards.

- 3. Cutting machines shall be continuously misted during use, unless a competent person determines that misting substantially decreases worker safety.
- 4. When removing built-up roofs with asbestos-containing roofing felts and an aggregate surface using a power roof cutter, all dust resulting from the cutting operation shall be collected by a HEPA dust collector, or shall be HEPA vacuumed by vacuuming along the cut line. When removing built-up roofs with asbestos-containing roofing felts and a smooth surface using a power roof cutter, the dust resulting from the cutting operation shall be collected either by a HEPA dust collector or HEPA vacuuming along the cut line, or by gently sweeping and then carefully and completely wiping up the still-wet dust and debris left along the cut line.
- 5. Asbestos containing material that has been removed from a roof shall not be dropped or thrown to the ground. Unless the material is carried or passed to the ground by hand, it shall be lowered to the ground via covered, dust-tight chute, crane or hoist.
- 6. Any asbestos containing material that is not intact shall be lowered to the ground as soon as is practicable, but in any event no later than the end of the work shift. While the material remains on the roof it shall either be kept wet, placed in an impermeable waste bag, or wrapped in plastic sheeting.
- 7. Intact asbestos containing material shall be lowered to the ground as soon as is practicable, but in any event no later than the end of the work shift.
- 8. Upon being lowered, unwrapped material shall be transferred to a closed receptacle in such manner so as to preclude the dispersion of dust.
- 9. Roof level heating and ventilation air intake sources shall be isolated or the ventilation system shall be shut down.
- B. Cooperate with A/E in conducting air sampling.
- C. Cease work and change work methods when advised that air quality samples exceed OSHA limits.
- D. The use of powered tools or high speed abrasive disc saws must be approved by the A/E and must be equipped with engineering controls that eliminate dust.
- E. Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post signs in accordance with NESHAP and OSHA requirements.
- F. Transport all waste to an approved landfill for asbestos waste in an enclosed truck or dumpster. Complete a waste shipment record for each load of waste in accord with the 1990 NESHAP STANDARD. Return the record, signed by waste disposal site owner/operator to A/E.
- G. Upon completion of work, leave area in clean condition.

END OF SECTION 02 2625

SUPPLEMENTAL ASBESTOS SAMPLING REPORT

CDB PROJECT NUMBER 818 -010 -103

WESTERN ILLINOIS UNIVERSITY **HEATING PLANT ANNEX** C.D.B. BUILDING #T4019 1 UNIVERSITY CIRCLE MACOMB, MCDONOUGH COUNTY, ILLINOIS

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY: RELIABLE ENVIRONMENTAL SOLUTIONS, INC. **4211 WESTGATE DRIVE** SPRINGFIELD, ILLINOIS 62711 217-787-9800



DATE OF

SUBMITTAL:

April 12, 2019

DATE SIGNED: April 12, 2019

EXP. DATE:

November 30, 2020

(A/E LICENSE)

IDPH LICENSE: 100 - 00019

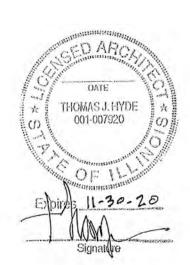


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Project Designer's Credentials

Laboratory's Credentials

INTRODUCTION

I. SCOPE

Reliable Environmental Solutions, Inc. (RES) performed a limited asbestos inspection of Heating Plant Annex (CDB Building #T4019) at Western Illinois University located Macomb, Illinois. RES performed the limited inspection on March 28, 2019. The purpose of the inspection was to identify asbestos containing materials located at the above referenced building to facilitate roofing renovation.

II. INSPECTION PROTOCOL

The inspection was performed in accordance with the Asbestos Hazard Emergency Response Act (AHERA), the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Occupational Safety and Health Administration (OSHA) regulations. Personnel performing the inspection are accredited by the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). Credentials of the on-site licensed inspector are located in Section 5 of this report.

The intent of the inspection is to survey all areas; however, inaccessible areas that would require destructive methods to uncover suspect materials may not have been surveyed. Any suspect material discovered during a renovation or demolition that has not been identified in this report must be sampled.

III. SAMPLING PROTOCOL

Bulk samples of materials suspected of containing asbestos were collected in a random manner. The Summary of Findings located in Section 2 of this report identifies these suspect materials and the number of samples collected for each suspect material. Materials which tested positive or were assumed to be positive for asbestos are highlighted in yellow.

Between three and seven samples were collected from each homogeneous material. A homogeneous material is a material that is uniform in color and texture and installed at the same time. The number of samples collected is dictated by AHERA based on the type of material sampled. Materials are grouped in one of three categories including Surfacing, Thermal and Miscellaneous.

State of the art practices require three negative results to state that a material is negative; whereas, one positive result will result in the entire homogeneous area being identified as positive.

IV. ANALYSIS PROTOCOL

Samples were analyzed by McCall and Spero of Louisville, Kentucky. McCall and Spero is a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. Credentials for the laboratory is located in Section 5 of this report. Samples were analyzed by Polarized Light Microscopy (PLM) according to AHERA protocol.

Friable materials found to contain less than ten percent asbestos are recommended to be point counted according to the NESHAP regulations. The Transmission Electron Microscopy (TEM) method has proven to be a more reliable method for a similar cost; therefore, RES recommends utilizing TEM in lieu of point counting if additional testing is performed.

Certain non-friable materials are difficult to properly ascertain the asbestos content with the PLM method; therefore, in some circumstances the laboratory will recommend TEM analysis to determine if these materials are actually negative. Some state regulatory agencies will use TEM analysis to determine if a material contains asbestos; therefore, the laboratory has recommended that the non-friable materials identified with double asterisks (**) be further analyzed by TEM.

V. SUMMARY

Heating Plant Annex (CDB Building #T4019) at Western Illinois University located Macomb, Illinois was inspected for asbestos containing materials on the roof of the building. The following materials were found to contain asbestos.

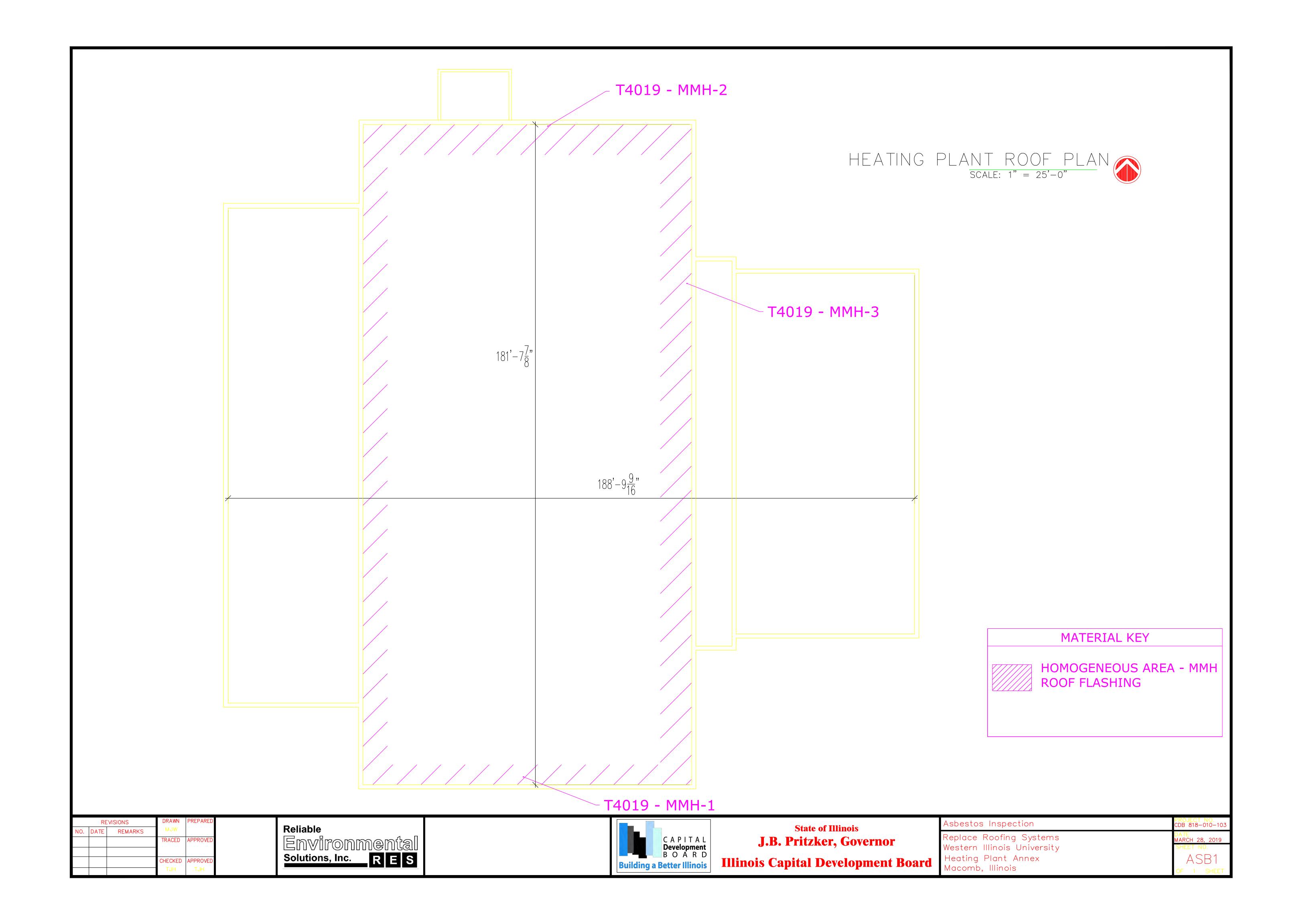
• **MMH** – Roof flashing located around the perimeter of the roof was found to contain 7% chrysotile asbestos as analyzed by Polarized Light Microscopy.

Western Illinois University Heating Plant Annex CDB Building No. T4019 1 University Circle Macomb, IL 61455

SUMMARY OF FINDINGS BY PLM ANALYSIS

HOMO		ACM			
AREAS	DESCRIPTION	ASSUMED	POS	NEG	NOTES
MMH	ROOF FLASHING		3		
MMG	BUILT-UP ROOF			3**	
MMI	EXTERIOR CAULK			3**	

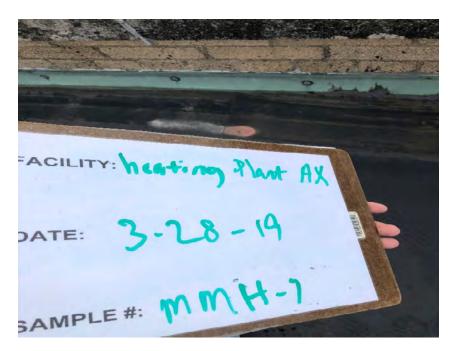
^{**}EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by Polarized Light Microscopy (PLM) that fall into one of five dominantly non-friable categories by reanalyzed by an additional method, such as Transmission Electron Microscopy (TEM) (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/R-93/116).



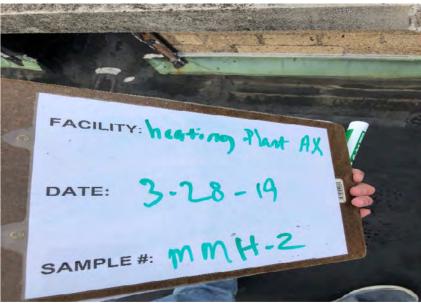
FORM 11 BULK SAMPLE LABORATORY ANALYSIS REPORT

3. BUILDING: _ 5. ADDRESS: _ 7. HOMOGENEO	Heating I 1 Universi DUS ARE	Illinois University Plant Annex Sity Circle, Macomb, IL A (ONLY 1 PER FORM): 10 & PROVIDE TO LABORA	4. CLIENT (A/E): Archit 6. PROJECT#: 818-0 MMH	
8. Location		ROOF	ROOF	ROOF
9. Date Collected		3/28/19	3/28/19	3/28/19
10. Sample No.		T4019-MMH-1	T4019-MMH-2	T4019-MMH-3
11. Date Received		4/1/19	4/1/19	4/1/19
12. Lab Sample No.		004	005	006
13. Color?		Black	Black	Black
14. Fibrous?		No	No	No No
15. Layers?		No	No	No
16. Contains Asbesto	s?	Yes	Yes	Yes
17. TYPE AND % ASI	BESTOS			
Chrysotile		7%	7%	7%
Amosite				
Crocidolite				
Other				
Total Asbestos %	6			
18. OTHER MATERIA	AL %			
Fibrous Glass				
Cellulose		3%	3%	3%
Synthetic Fibers				
Gypsum				
Calcite				
Quartz				
Perlite				
Vermiculite				
Others		90%	90%	90%
19. Date Analyzed		4/8/19	4/8/19	4/8/19
20. Analyzed By		KRB	KRB	KRB
All samples analy 21. Report Approved	1 /4	elarized light microscopy	with dispersion staining. — Date:	April 8, 2019

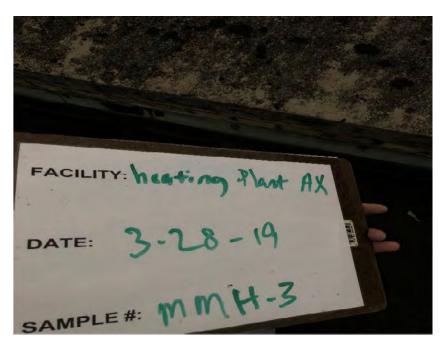
23. Laboratory Name: McCall & Spero Environmental, Inc.



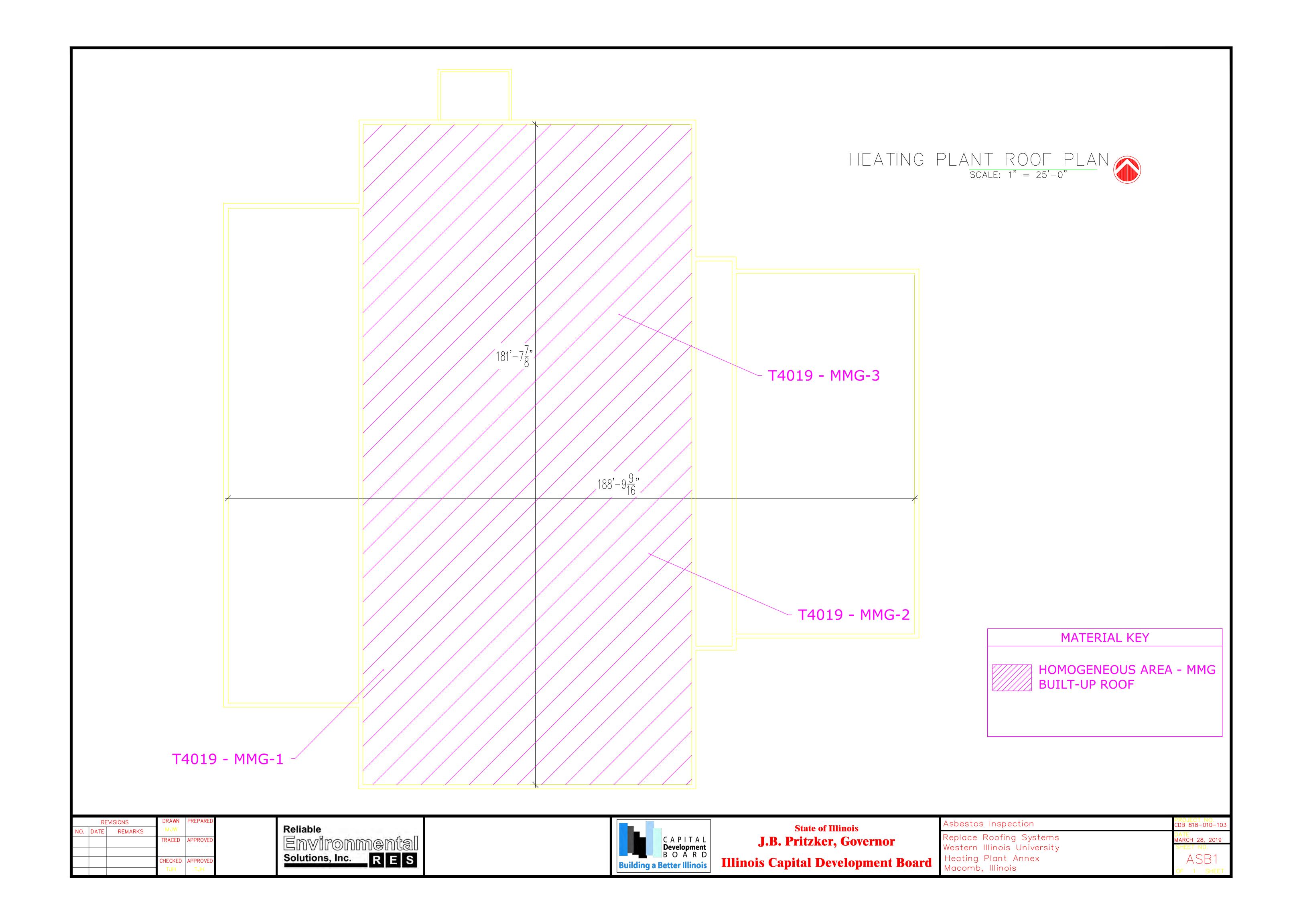
T4019 – MMH – 1 Roof Flashing



T4019 - MMH - 2Roof Flashing



T4019 – MMH – 3 Roof Flashing

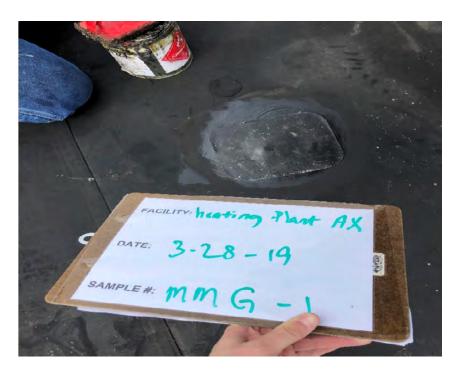


FORM 11 BULK SAMPLE LABORATORY ANALYSIS REPORT

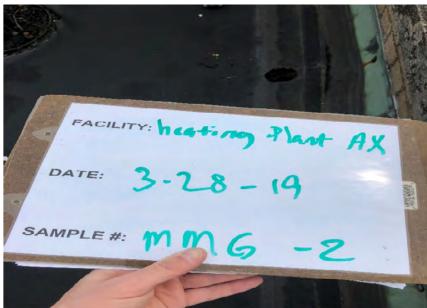
FACILITY: Western Illinois University BUILDING: Heating Plant Annex ADDRESS: 1 University Circle, Macomb, IL HOMOGENEOUS AREA (ONLY 1 PER FORM): (A/E COMPLETE ITEMS 1 - 10 & PROVIDE TO LABORAT)		4. CLIENT (A/E): Architechnics 6. PROJECT #: 818-010-103 MMG	
8. Location	ROOF	ROOF	ROOF
9. Date Collected	3/28/19	3/28/19	3/28/19
10. Sample No.	T4019-MMG-1	T4019-MMG-2	T4019-MMG-3
11. Date Received	4/1/19	4/1/19	4/1/19
12. Lab Sample No.	001	002	003
13. Color?	Black	Black	Black
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contains Asbestos?	ND**	ND**	ND**
17. TYPE AND % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass	10%	10%	10%
Cellulose	20%	20%	20%
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	70%	70%	70%
19. Date Analyzed	4/8/19	4/8/19	4/8/19
20. Analyzed By	KRB	KRB	KRB
All samples analyzed by p	olarized light microscopy w <i>ルー</i> ん	ith dispersion staining.	April 8, 2019

23. Laboratory Name:

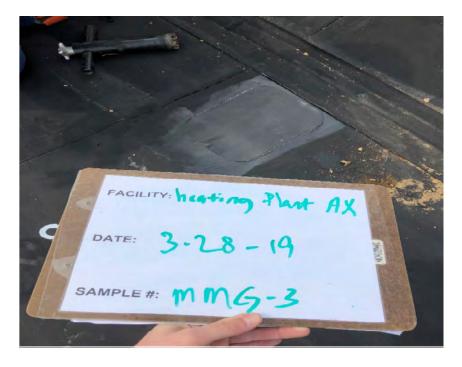
McCall & Spero Environmental, Inc.



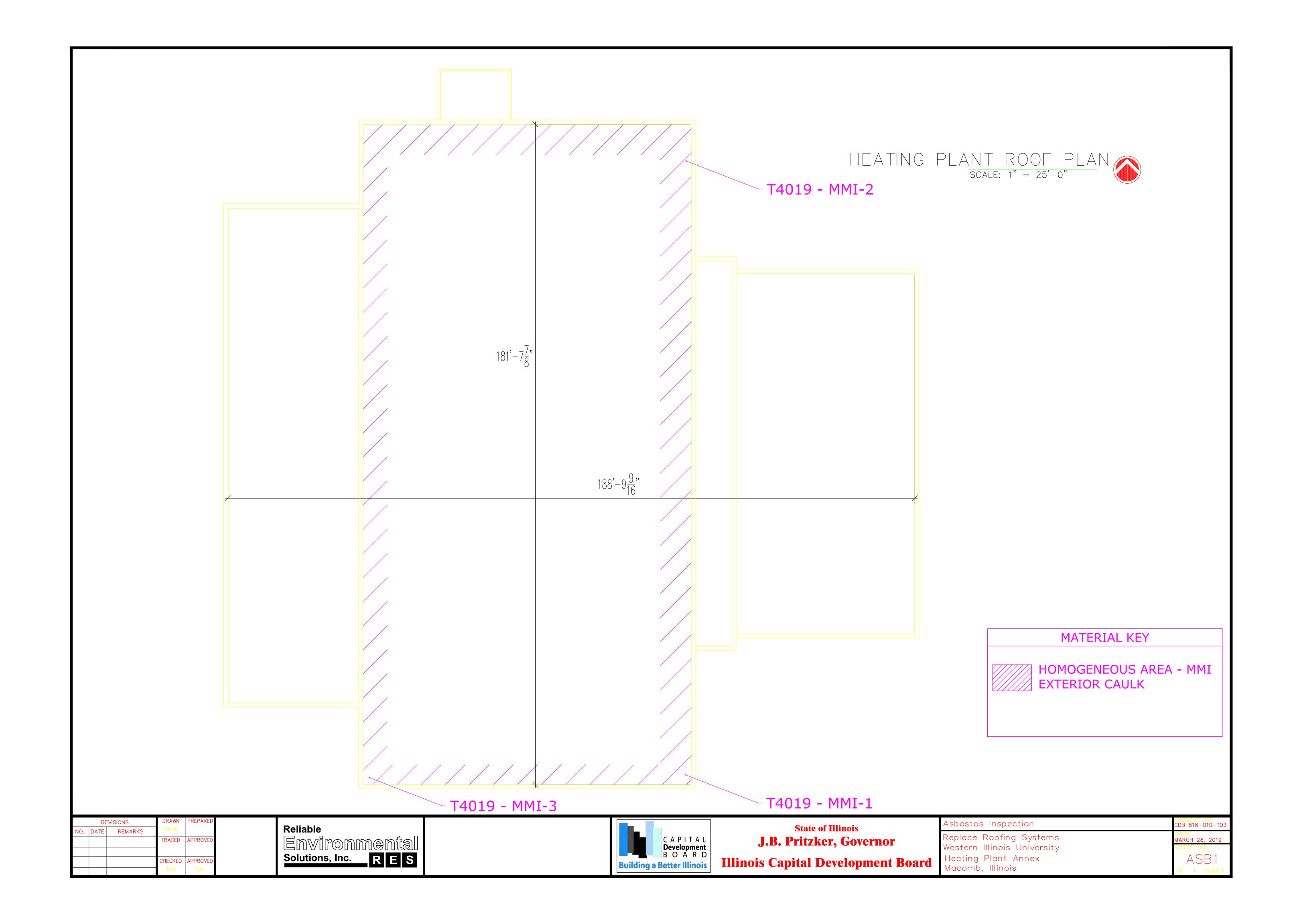
T4019 – MMG – 1 Built – Up Roof



T4019 – MMG – 2 Built – Up Roof

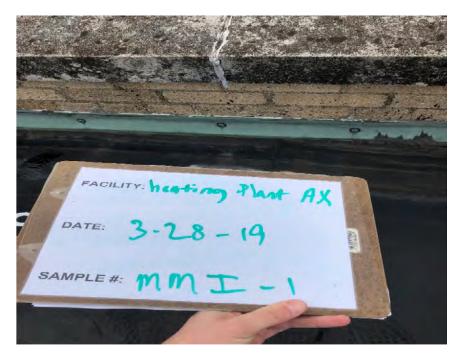


T4019 - MMG - 3Built - Up Roof

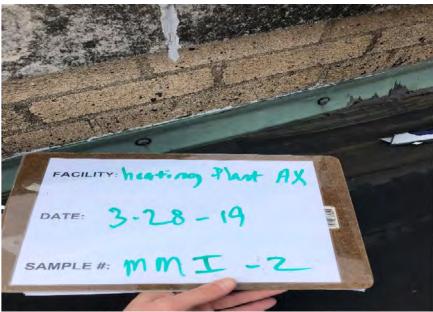


FORM 11 BULK SAMPLE LABORATORY ANALYSIS REPORT

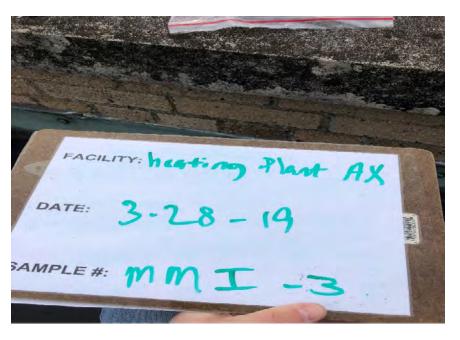
FACILITY: Western	Illinois University	2. CDB BUILDING #: T	<u>4</u> 019
BUILDING: Heating Plant Annex		4. CLIENT (A/E): Architechnics	
5. ADDRESS: 1 University Circle, Macomb, IL 6. PROJECT #: 818-010-103 7. HOMOGENEOUS AREA (ONLY 1 PER FORM): MMI			10-103
	10 & PROVIDE TO LABORAT	**************************************	
8. Location	ROOF	ROOF	ROOF
9. Date Collected	3/28/19	3/28/19	3/28/19
10. Sample No.	T4019-MMI-1	T4019-MMI-2	T4019-MMI-3
11. Date Received	4/1/19	4/1/19	4/1/19
12. Lab Sample No.	007	008	009
13. Color?	Gray	Gray	Gray
14. Fibrous?	No	No	No
15. Layers?	No	No	No
16. Contains Asbestos?	ND**	ND**	ND**
17. TYPE AND % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose	2%	2%	2%
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	98%	98%	98%
19. Date Analyzed	4/8/19	4/8/19	4/8/19
20. Analyzed By	KRB	KRB	KRB
All samples analyzed by polarized light microscopy with dispersion staining.			
21. Report Approved by:	mh	Date:	April 8, 2019
23. Laboratory Name: McCall & Spero Environmental, Inc.			



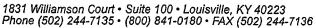
T4019 - MMI - 1 Exterior Caulk

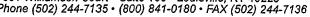


T4019 - MMI - 2 Exterior Caulk



T4019 – MMI – 3 Exterior Caulk





E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date:

April 8, 2019

Attention:

Michael Williams

Reliable Environmental Solutions

Subject:

Analysis of bulk samples for asbestos mineral fibers by Polarized Light

Microscopy (PLM) with Dispersion Staining (EPA/600/R-93/116)

RE:

MSE-P419RES.5

T4019; Western Illinois University, Heating Plant Annex Project

Dear Mr. Williams:

McCall & Spero Environmental, Inc. has completed the analyses of the bulk samples we received from your offices on April 1, 2019. These samples represent the bulk samples from the T4019; Western Illinois University, Heating Plant Annex Project.

The PLM bulk analysis was performed according to the "Method of the Determination of Asbestos in Bulk Building Materials", R. L. Perkins and B. W. Harvey (EPA/600/R-93/116).

The results for the nine (9) samples are summarized in the following report. Please note that for samples consisting of two or more distinct components, each component is analyzed and reported individually (EPA 40 CFR Part 61 [FRL-4821-71]).

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

Kevin R. Bean, B.A.

PLM Laboratory Director



Form 15

CHAIN OF CUSTODY RECORD FOR ASBESTOS BULK SAMPLES

1. CDB Building #:	T4019	2. Batch #: 1
3. Facility Name:	Western Illinois University	4. Project #: 818-010-103
5. Building Name: Heating Plant Annex		6. Date Collected: 03/28/19
7. Inspectors Name:	: Michael Williams	8. Project Name: Replace Roofing Systems
9. License #:	100-18917	10. Sample Numbers: T4019-MMG-1, T4019-MMG-2,
T4019-MMG-3: T401	19-MMH-1, T4019-MMH-2, T4019-MMH-3; T4019	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11. Total # Samples: 9
12. Sample Numbers	Relinquished: see above Turn Around Time	:_4-5 DAY
Relinquished by:	Michael Williams	Representing: Reliable Environmental Solutions, Inc.
Signature:	Michael Welleams gw	
Method of Transm	ission: Federal Express	
Date and Time:	03/29/19 5:00 PM	
Sample Numbers	Received: 9	
Received by:		Representing: MSE labs
Signature:	n n 2	Representing:
	pples upon Receipt: Uh	
Date and Time:	4/1/19 10:00	
Reason for obtain		
	Relinquished:	
Relinquished by:		Representing:
Signature:		
Method of Transm	ission:	
Date and Time:		
Sample Numbers	Received:	
Received by:		Representing:
Signature:		
Conditions of Sam	ples upon Receipt:	
Date and Time:		
Reason for obtain	ing Samples:	
14. Sample Numbers	Relinquished:	
Relinquished by:		
Signature:		
Method of Transm	ission:	
Date and Time:		
Sample Numbers	Received:	
Received by:	Received:	The state of the s
Signature:		Tropiosenting.
	ples upon Receipt:	•
Date and Time:		
Reason for obtaini	ing Samples:	

Form 15 CHAIN OF CUSTODY RECORD FOR ASBESTOS BULK SAMPLES - Page 2

15. BLDG. #: <u>T4019</u>	16. BATCH #:	1	17. PAGE #: 2
18. Sample Numbers	*		
Relinquished by:		Representing:	
Signature:			· · · · · · · · · · · · · · · · · · ·
Method of Transmission:			
Date and Times			
Sample Numbers Received:			
Received by:			
Cianatura			N.
Conditions of Samples upon Receipt:			
Reason for obtaining Samples:			
19. Sample Numbers			
Relinquished by:		Representing:	
Signature			·
Method of Transmission:			
Date and Time:			
Sample Numbers Received:			
Received by:		Representing:	
Signature:			
Conditions of Samples upon Receipt:			
—			
Reason for obtaining Samples:			
20.8 Sample Numbers			
Relinquished by:		Representing:	
Signature:			
Method of Transmission:			
Date and Time:			
Sample Numbers Received:			
Received by:		Representing:	
Signature:			
Conditions of Samples upon Receipt:			
Date and Time:			
Reason for obtaining Samples:			

Chain of Custody is completed with delivery of samples to a CDB Sample Custodian. Project Manager shall make arrangements for delivery.



ASBESTOS PROFESSIONAL LICENSE

ID NUMBER 100 - 18917 ISSUED 5/16/2018

EXPIRES 05/15/2019

MICHAEL J WILLIAMS 1237 S EAST JACKSONVILLE, IL 62650

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR

4/21/2019

PROJECT MANAGER
AIR SAMPLING PROFESSIONAL

4/3/2019

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.

Reliable Environmental Solutions, Inc. R E S

This is to certify that

Michael Williams

has on 04/21/18, in Springfield, Illinois, completed the requirements for asbestos accreditation under Section 206 of TSCA Title II

Asbestos Building Inspector Refresher Training

as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA) and passed the associated examination with a score of 70% or higher

Course Date: April 21, 2018	COURSE LENGTH: 4 HOURS	
Examination Date: April 21, 2018		
Expiration Date: April 21, 2019	William S. William	
Certificate Number: BIR/0731	Training Program Manager, William S. Williams	
4211 Westgate Drive, Springfield, Illinois 217.78	7.9800 🗆 217.787.9801 FAX 🗆 www.ReliableEnv.com	



ASBESTOS PROFESSIONAL LICENSE

ID NUMBER 100 - 00019 ISSUED 1/26/2018 EXPIRES 05/15/2019

THOMAS J HYDE 1010 CLOCKTOWER DRIVE SPRINGFIELD, IL 62704

Environmental Health



ENDORSEMENTS

TC EXPIRES

 INSPECTOR
 11/8/2018

 PROJECT DESIGNER
 11/9/2018

 MANAGEMENT PLANNER
 12/6/2018

Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health

This license is valid only when accompanied by a valid training course certificate.



This is to certify that

Thomas Hyde

has on 11/08/18, in Springfield, IL, completed the requirements for asbestos accreditation under Section 206 of TSCA Title II

Asbestos Project Designer Refresher Training

as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA) and passed the associated examination with a score of 70% or higher

Course Date: November 8, 2018	COURSE LENGTH: 8 HOURS
Examination Date: November 8, 2018	-
Expiration Date: November 8, 2019	Millian S. William
Certificate Number: PDR/0393	Training Program Manager, William S. Williams
4211 Westgate Drive, Springfield, Illinois 🗆 2	17.787.9800 □ 217.787.9801 FAX □ www.ReliableEnv.com



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

McCall and Spero Environmental, Inc.

1831 Williamson Court, Suite 100 Louisville, KY 40223-4201 Mr. Eric C. Widmayer Phone: 502-244-7135 Email: eric@mselabs.com

http://www.mselabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101895-0

Bulk Asbestos Analysis

<u>Code</u> <u>Description</u>

18/A01 EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u> <u>Description</u>

18/A02 U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and

Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101895-0

McCall and Spero Environmental, Inc.

Louisville, KY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-07-01 through 2019-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

DIVISION 2 – EXISTING CONDITIONS

Section 02 41 16 – Minor Demolition

1. GENERAL

1.1 WORK INCLUDES

A. Base Bid:

1. General Contractor Provide:

- a. Remove and dispose of designated portions of existing roofing membrane, edge flashings, etc., as indicated on the project drawings.
- b. Remove and salvage existing roof ballast rock and salvage/stockpile for owner. See Dwg. G000 Campus Map for location. Coordinate with owner.
- c. Remove and dispose of existing gravity roof vents/domes, and close roof openings as indicated on the project drawings.
- d. Remove and dispose of existing roof drains and close roof openings as indicated on the project drawings.
- e. Relocation/reinstallation of existing equipment including any required roof curb extensions as indicated on the project drawings.
- d. Remove and dispose of rubbish and debris resulting from own demolition operations.
- e. Identification of utilities encountered.
- g. Provide to the Architect/Engineer signed waste disposal receipts.

1.2 RELATED WORK

A. Specified Elsewhere

- 1. 01 11 00 Project Summary
- 2. 01 35 16 Remodeling Project Procedures
- 3. 01 54 00 Construction Aids
- 4. 01 56 00 Barriers & Enclosures
- 5. 06 10 00 Carpentry
- 6. 07 53 23 EPDM Membrane Roofing
- 7. 07 72 00 Roof Accessories

1.3 SUBMITTALS

- A. Submit demolition and removal procedures and schedule in accord with 01 33 23.
- B. Submit record drawings in accord with 01 78 39.

1.4 EXISTING CONDITIONS

- A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- B. Provide, erect, and maintain temporary barriers and security devices in accord with 01 56 00

2. PRODUCTS – NONE

3. EXECUTION

3.1 PREPARATION

- A. Erect and maintain weatherproof closures for exterior openings in accord with 01 56 00.
- B. Protect existing items not indicated to be demolished.

3.2 EXECUTION

- A. Demolish in an orderly and careful manner. Protect existing construction and finishes that remain.
- B. Except where noted otherwise, immediately remove demolished materials from site
- C. Remove materials to be reinstalled or retained in manner to prevent damage. Store and protect in accord with 01 66 00.
- D. Remove and promptly dispose of contaminated, vermin infested, or dangerous materials encountered.
- E. Do not burn or bury materials on site.
- F. Remove demolished materials from site as work progresses. Upon completion of work, leave areas in clean condition.

END 02 41 16

1. GENERAL

1.1 WORK INCLUDES

A. Base Bid:

1. Contractor shall provide all labor, tools and equipment necessary to construct concrete structures as shown on the Drawings.

1.2 RELATED WORK

- A. Concrete Formwork Section 03 10 00
- B. Concrete Reinforcement Section 03 20 00
- C. Unit Masonry Section 04 20 00

1.3 QUALITY ASSURANCE

A. Allowable Tolerances

- 1. $\pm 1/8$ inch in 10 ft. from a flat surface for smooth troweled slab finish
- 2. $\pm 1/4$ inch in 10 ft. from a flat surface for other finishes.
- 3. $\pm 1/4$ inch maximum deviation from required elevations.

B. Quality Control

- 1. Compression Tests: by an approved testing laboratory, paid for by Contractor, approved by Architect/Engineer.
- 2. Cement: only one brand by an American manufacturer.

C. Reference Standards

- 1. American Society for Testing and Materials Standards (ASTM).
- 2. American Concrete Institute "Building Code Requirements for Reinforced Concrete" (ACI 318 Latest Edition).
- 3. IDOT Standard Specifications for Road and Bridge Construction, adopted April 1, 2016, including all supplements.

1.4 SUBMITTALS

- A. Submit concrete compression test results to Architect/Engineer.
- B. Submit concrete delivery tickets in accordance with ASTM C94 for each batch of ready mixed concrete delivered, indicating total water content on each ticket.
- C. Submittals in accord with Section 01 33 23.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

CDB 03 30 00

- A. Store and handle material to prevent deterioration or intrusion of foreign matter
- B. Immediately and completely remove deteriorated or damaged material from the work and replace with new material.
- C. Deliver ready mix concrete in accordance with ASTM C-94.

1.6 ALTERNATIVES

A. Construction joints may be substituted for control or contraction joints at joint locations in slabs on grade and other locations approved by the Architect/Engineer.

2. PRODUCTS

2.1 MATERIALS

- A. Portland Cement: ASTM C-150.
- B. Air-entrained Portland Cement: ASTM C-175.
- C. Air-entrained Agent: ASTM C-260.
- D. Fine Aggregate
 - 1. ASTM C-33.
 - 2. Natural sand composed of clean, sound, hard, durable particles.
- E. Coarse Aggregate
 - 1. ASTM C-33.
 - 2. Clean, hard, durable, screened, crushed stone or gravel.
- F. Mixing Water: free from oil, acid, vegetable matter, alkalis and other impurities and clean, suitable for drinking.
- G. Admixture other than air-entraining agent: Not to be used unless written approval is obtained from Architect/Engineer.
- H. Joint Filler
 - 1. Pre-molded, resilient, compressible, pre-expanded, non-extruding and non-staining.
 - 2. 3/8 inch thick unless otherwise indicated.
 - 3. Polyethylene foam, polyurethane foam, neoprene sponge or polyvinyl chloride sponge.

4. Closed-cell type with 25% compressibility when subject to 10 to 15 psi distributed pressure.

2.2 APPROVED CONCRETE CURING AND SEALING COMPOUND FOR INTERIOR

- A. ASTM C-309
- B. Impervious, non-bituminous, liquid, compatible with floor finish.
- C. Manufactured by: Sonneborn "Kure-N-Seal", Toch Bros. "Sealkure", or Grace "Horn Clear Seal".

2.3 APPROVED CONCRETE CURING AND SEALING COMPOUND FOR EXTERIOR

- A. ASTM C-309.
- B. White pigmented, wax resin base membrane type.
- C. Manufactured by: Grace "Horncue 40W", Toch Bros. "Torkure", or Sonneborn "Hydrocide Curing Compound".

2.4 CONCRETE DESIGN CRITERIA

- A. Minimum ultimate compressive strength: 4,000 psi at 28 days, unless otherwise noted.
- B. Slump shall be 3 inches.

2.5 CONCRETE MIX

- A. ACI 318-83 and ASTM C-94.
- B. Proportioned by water-cement ratio method based on requirements for a plastic and workable mix with not less than 6 bags of cement per cu. yd. and not more than 6 gallons of water per 94 lb. bag of cement.
- C. Ready mixed or job mixed at Contractor's option.
- D. Air entrained with 5 to 7% by volume for concrete exposed to weather with not more than 5 gallons of water per bag of cement.

3. EXECUTION

3.1 INSPECTION

- A. Inspect piping, conduits, drains and similar items for proper placement and condition prior to placing concrete.
- B. Do not place concrete until bearing surfaces have been inspected, approved and authorization to proceed is received from Architect/Engineer.

3.2 CONCRETE PLACEMENT: ACI 301-66 AND ASTM C-94.

- A. Place in final position as soon as possible after mixing in an approved manner to prevent segregation. Handle rapidly from mixer to forms. Spade, work by hand, and vibrate to assure close contact with forms and reinforcement
- B. Place on clean, damp surfaces, free of water. Place in final position within 90 minutes after mixing water with dry material. No water shall be added to the concrete after initial mixing. Do not use concrete which has been retempered, has partially hardened or been contaminated by foreign material.
- C. Remove unsuitable materials from the project site immediately. Do not deposit concrete when temperature of materials is below 50°F or above 85°F. Form concrete slabs to thicknesses shown on Drawings but not less than 4 inches and strike off at proper levels to receive finish.

D. Winter Concreting

- 1. Shall meet the requirements of ACI 306.
- 2. Provide for maintaining concrete at a temperature not lower than 70°F for 3 days or 50°F for 5 days after placing.
- 3. Approved by the Architect/Engineer for methods of heating materials and protecting concrete. The use of salts, chemicals or other foreign materials shall not be mixed with concrete for the purpose of preventing freezing.

E. Hot Weather Concreting

- 1. Shall meet the requirements of ACI 305.
- 2. Do not exceed 90°F. maximum concrete temperature.
- 3. Protect concrete from rapid moisture evaporation by covering with polyethylene sheeting or spraying.
- 4. Provide wind breaks as necessary.
- F. Install perimeter insulation before placing concrete for slab.

- G. Form concrete slabs to thicknesses shown on Drawings but not less than 4 inches and strike off at proper levels to receive finish. Screed and tamp to eliminate voids in surfaces.
- H. Form floor slabs to pitch evenly to drains. Form exterior slabs to drain away from building.

I. Fastening Devices of Other Work

- 1. Provide for installation of inserts, anchors, dowels, bolts, thimbles and other fastening devices required for attachment of other work.
- 2. Properly locate and secure in position before placing concrete.

J. Joints

- 1. Construct all joints indicated on Drawings.
- 2. Control Joints
 - a. Depth: 1/4 thickness of slab, minimum 1½" depth.
 - b. Width: 3/16 inch maximum.
 - c. Walks and ramps: 5 ft. on center.
 - d. After placing concrete make interior concrete joints by inserting plastic control joint former or tooled joints.
 - e. Sawing of joints to the required depth shall start when the slab can withstand the weight of the saw, but before the end of the workday, that same day. Make sure the joints are sawn the same day the slab is placed, no exception.
 - f. Flush joints with water immediately after sawing to remove residue.
 - g. Fill joints with sealant.
- 3. Expansion Joints
 - a. Install premolded joint filler where concrete slabs on grade abut structure and elsewhere indicated.
 - b. Install premolded joint filler full depth of slab except for joints permanently exposed, allow 3/8 inch at top and fill with joint sealant.
- 4. Construction Joints
 - a. Provide keyed joints between cast sections of slabs on grade.

3.3 CURING AND PROTECTION

- A. Do not use dry sand or cement to take up excess free surface water.
- B. Cure concrete immediately after placing, finishing, and free water has disappeared.

- C. Protect concrete from moisture loss by water curing or application of membrane curing compound.
 - 1. Water Curing: By sprinkling or ponding to keep concrete continuously wet or by moisture retention covers.
 - 2. Compound Curing: By pressure spraying membrane curing as recommended by manufacturer in sufficient thickness to form an effective water seal.
- D. Cure concrete minimum of 7 days after placement.
- E. Protect fresh concrete from heavy rain, mechanical injury and injurious action of sun.
- F. Provide protection and cover concrete until project is completed to prevent construction work damage.

3.4 FIELD QUALITY CONTROL TESTS

A. Compression Tests

- 1. Provide for test purposes one set of three cylinders taken for each day's concrete placement.
- 2. Make test cylinders and cure in accordance with ASTM C-31 and C-39.
- 3. Test one cylinder 7 days and one cylinder 28 days after concrete is placed. If the cylinders fail to meet the compression strength specified, the third cylinder shall be tested. Should all cylinders tested fail to meet the compression strength specified, all concrete in place as represented by the test cylinders shall be removed.
- 4. Contractor shall be responsible for payment of tests.

B. Slump Tests

- Furnish slump cone and rod for use by the Inspector when concrete is being placed. Make tests at the place of deposit and in accordance with ASTM C-143.
- 2. Make tests periodically where cylinders are made and as often in the opinion of the Architect/Engineer when a change in consistency of the concrete mix is not

3.5 CONCRETE FINISHES

- A. Interior concrete floors: ACI 301 using steel trowel finish using circular power finishing machine and steel hand trowel to produce a true, hard, uniform surface.
- B. Exterior concrete slabs and sidewalks: ACI 301 with a light broom finish to texture approved by Architect/Engineer, edges and joints retooled smooth after brooming with 2" to 3" tool to provide a border for each section.
- C. Curbs and Drives: ACI 301 with a light broom finish (vertical and perpendicular to the curb line) to texture approved by the Architect/Engineer.

END 03 30 00

Section 04 01 20.63 - Brick Masonry Repair

1. GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Repairing brick masonry.
- 2. Removing abandoned anchors.

1.3 DEFINITIONS

- A. Low-Pressure Spray: 100 to 400 psi; 4 to 6 gpm.
- B. Rebuilding (Setting) Mortar: Mortar used to set and anchor masonry in a structure, distinct from pointing mortar installed after masonry is set in place.
- C. Saturation Coefficient: Ratio of the weight of water absorbed during immersion in cold water to weight absorbed during immersion in boiling water; used as an indication of resistance of bricks to freezing and thawing.

1.4 SEQUENCING AND SCHEDULING

- A. Order sand and gray portland cement for colored mortar immediately after approval of Samples. Take delivery of and store at Project site enough quantity to complete Project.
- B. Work Sequence: Perform brick masonry repair work in the following sequence, which includes work specified in this and other Sections:
 - 1. Remove plant growth.
 - 2. Inspect masonry for open mortar joints and point them before cleaning to prevent the intrusion of water and other cleaning materials into the wall.
 - 3. Clean masonry.
 - 4. Repair masonry, including replacing existing masonry with new masonry materials

- 5. Point mortar and sealant joints.
- 6. After repairs and repointing have been completed and cured, perform a final cleaning to remove residues from this work.
- 7. Where water repellents are to be used on or near masonry work, delay application of these chemicals until after pointing and cleaning.
- C. As scaffolding is removed, patch anchor holes used to attach scaffolding. Patch holes in bricks according to "Brick Masonry Patching" Article. Patch holes in mortar joints according to Section 04 0120.64 "Brick Masonry Repointing."

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
 - 2. Include recommendations for product application and use.
 - 3. Include test data substantiating that products comply with requirements.

B. Shop Drawings:

- 1. Include plans, elevations, sections, and locations of replacement bricks on the structure, showing relation of existing and new or relocated units.
- 2. Show provisions for expansion joints or other sealant joints.
- 3. Show provisions for flashing, lighting fixtures, conduits, and weep holes as required.
- 4. Show locations of scaffolding and points of scaffolding in contact with masonry. Include details of each point of contact or anchorage.

C. Samples for Verification: For the following:

- 1. Each type of brick unit to be used for replacing existing units. Include sets of Samples to show the full range of shape, color, and texture to be expected. For each brick type, provide straps or panels containing at least four bricks. Include multiple straps for brick with a wide range.
- 2. Each type of patching compound in the form of briquettes, at least 3 inches long by 1-1/2 inches wide. Document each Sample with manufacturer and stock number or other information necessary to order additional material.
- 3. Accessories: Each type of accessory and miscellaneous support.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For brick masonry repair specialist including field supervisors and workers.

1.7 QUALITY ASSURANCE

- A. Brick Masonry Repair Specialist Qualifications: Engage an experienced brick masonry repair firm to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience in only installing masonry is insufficient experience for masonry repair work.
 - 1. Field Supervision: Brick masonry repair specialist firm shall maintain experienced full-time supervisors on Project site during times that brick masonry repair work is in progress.
 - 2. Brick Masonry Repair Worker Qualifications: When bricks are being patched, assign at least one worker per crew who is trained and certified by manufacturer of patching compound to apply its products.
- B. Quality-Control Program: Prepare a written quality-control program for this Project to systematically demonstrate the ability of personnel to properly follow methods and use materials and tools without damaging masonry. Include provisions for supervising performance and preventing damage.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver bricks to Project site strapped together in suitable packs or pallets or in heavy-duty cartons and protected against impact and chipping.
- B. Deliver packaged materials to Project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of products.
- C. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- D. Store hydrated lime in manufacturer's original and unopened containers. Discard lime if containers have been damaged or have been opened for more than two days.
- E. Store sand where grading and other required characteristics can be maintained and contamination avoided.
- F. Handle bricks to prevent overstressing, chipping, defacement, and other damage.

1.9 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit brick masonry repair work to be performed according to product manufacturers' written instructions and specified requirements.

- B. Temperature Limits: Repair brick masonry only when air temperature is between 40 and 90 deg F and is predicted to remain so for at least seven days after completion of the Work unless otherwise indicated
- C. Hot-Weather Requirements: Protect masonry repairs when temperature and humidity conditions produce excessive evaporation of water from mortar and repair materials. Provide artificial shade and wind breaks, and use cooled materials as required to minimize evaporation. Do not apply mortar to substrates with temperatures of 90 deg F and above unless otherwise indicated.
- D. For manufactured repair materials, perform work within the environmental limits set by each manufacturer.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Source Limitations: Obtain each type of material for repairing brick masonry (brick, cement, sand, etc.) from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 MASONRY MATERIALS

- A. Face Brick: As required to complete brick masonry repair work.
 - 1. Brick Matching Existing: Units with colors, color variation within units, surface texture, size, and shape that match existing brickwork and with physical properties within 10 percent of those determined from preconstruction testing of selected existing units.
 - a. For existing brickwork that exhibits a range of colors or color variation within units, provide brick that proportionally matches that range and variation rather than brick that matches an individual color within that range.

2. Special Shapes:

- a. Provide molded, 100 percent solid shapes for applications where core holes or "frogs" could be exposed to view or weather when in final position and where shapes produced by sawing would result in sawed surfaces being exposed to view.
- b. Provide specially ground units, shaped to match patterns, for arches and where indicated.
- c. Mechanical chopping or breaking brick, or bonding pieces of brick together by adhesive, are unacceptable procedures for fabricating special shapes.

3. Tolerances as Fabricated: According to tolerance requirements in ASTM C 216, Type FBX.

2.3 MORTAR MATERIALS

- A. Portland Cement: ASTM C 150/C 150M, Type I or Type II, except Type III may be used for cold-weather construction; white or gray, or both where required for color matching of mortar.
 - 1. Provide cement containing not more than 0.60 percent total alkali when tested according to ASTM C 114.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Masonry Cement: ASTM C 91/C 91M.
- D. Mortar Cement: ASTM C 1329/C 1329M.
- E. Mortar Sand: ASTM C 144.
 - 1. Exposed Mortar: Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match.
 - 2. Colored Mortar: Natural sand or ground marble, granite, or other sound stone of color necessary to produce required mortar color.
- F. Mortar Pigments: ASTM C 979/C 979M, compounded for use in mortar mixes, and having a record of satisfactory performance in masonry mortars.
- G. Water: Potable.

2.4 ACCESSORY MATERIALS

- A. Masking Tape: Nonstaining, nonabsorbent material; compatible with mortar, joint primers, sealants, and surfaces adjacent to joints; and that easily comes off entirely, including adhesive.
- B. Other Products: Select materials and methods of use based on the following, subject to approval of samples:
 - 1. Previous effectiveness in performing the work involved.
 - 2. Minimal possibility of damaging exposed surfaces.
 - 3. Consistency of each application.
 - 4. Uniformity of the resulting overall appearance.
 - 5. Do not use products or tools that could leave residue on surfaces.

2.5 MORTAR MIXES

- A. Measurement and Mixing: Measure cementitious materials and sand in a dry condition by volume or equivalent weight. Do not measure by shovel; use known measure. Mix materials in a clean, mechanical batch mixer.
- B. Colored Mortar: Produce mortar of color required by using specified ingredients. Do not alter specified proportions without Architect's approval.
 - 1. Mortar Pigments: Where mortar pigments are indicated, do not add pigment exceeding 10 percent by weight of the cementitious or binder materials, except for carbon black which is limited to 2 percent, unless otherwise demonstrated by a satisfactory history of performance.
- C. Do not use admixtures in mortar unless otherwise indicated.
- D. Mixes: Mix mortar materials in the following proportions:
 - 1. Rebuilding (Setting) Mortar by Type: ASTM C 270, Proportion Specification, Type N unless otherwise indicated; with cementitious material limited to portland cement and lime or mortar cement.
 - 2. Pigmented, Colored Mortar: Add mortar pigments to produce exposed, setting (rebuilding) mortar of colors required.

PART 3 - EXECUTION

3.1 PROTECTION

- A. Prevent mortar from staining face of surrounding masonry and other surfaces.
 - 1. Cover sills, ledges, and other projecting items to protect them from mortar droppings.
 - 2. Keep wall area wet below rebuilding and repair work to discourage mortar from adhering.
 - 3. Immediately remove mortar splatters in contact with exposed masonry and other surfaces.
- B. Remove downspouts and associated hardware adjacent to masonry and store during masonry repair. Reinstall when repairs are complete.
 - 1. Provide temporary rain drainage during work to direct water away from building.

3.2 MASONRY REPAIR, GENERAL

A. Appearance Standard: Repaired surfaces are to have a uniform appearance as viewed from 20 feet away by Architect.

3.3 ABANDONED ANCHOR REMOVAL

- A. Remove abandoned anchors, brackets, wood nailers, and other extraneous items no longer in use unless indicated to remain.
 - 1. Remove items carefully to avoid spalling or cracking masonry.
 - 2. Notify Architect before proceeding if an item cannot be removed without damaging surrounding masonry. Do the following where directed:
 - a. Cut or grind off item approximately 3/4 inch beneath surface and core drill a recess of same depth in surrounding masonry as close around item as practical.
 - b. Immediately paint exposed end of item with two coats of antirust coating, following coating manufacturer's written instructions and without exceeding manufacturer's recommended dry film thickness per coat. Keep paint off sides of recess.
 - 3. Patch hole where each item was removed unless directed to remove and replace bricks.

3.4 BRICK REMOVAL AND REPLACEMENT

- A. At locations indicated, remove bricks that are damaged, spalled, or deteriorated. Carefully remove entire units from joint to joint, without damaging surrounding masonry, in a manner that permits replacement with full-size units.
 - 1. When removing single bricks, remove material from center of brick and work toward outside edges.
- B. Support and protect remaining masonry that surrounds removal area.
- C. Maintain flashing, reinforcement, lintels, and adjoining construction in an undamaged condition.
- D. Notify Architect of unforeseen detrimental conditions including voids, cracks, bulges, and loose units in existing masonry backup, rotted wood, rusted metal, and other deteriorated items.
- E. Remove in an undamaged condition as many whole bricks as possible.
 - 1. Remove mortar, loose particles, and soil from brick by cleaning with hand chisels, brushes, and water.

- 2. Remove sealants by cutting close to brick with utility knife and cleaning with solvents.
- 3. Store brick for reuse. Store off ground, on skids, and protected from weather.
- 4. Deliver cleaned brick not required for reuse to Owner unless otherwise indicated.
- F. Clean masonry surrounding removal areas by removing mortar, dust, and loose particles in preparation for brick replacement.
- G. Replace removed damaged brick with other removed brick in good condition, where possible, or with new brick matching existing brick. Do not use broken units unless they can be cut to usable size.
- H. Install replacement brick into bonding and coursing pattern of existing brick. If cutting is required, use a motor-driven saw designed to cut masonry with clean, sharp, unchipped edges.
 - 1. Maintain joint width for replacement units to match existing joints.
 - 2. Use setting buttons or shims to set units accurately spaced with uniform joints.
- I. Lay replacement brick with rebuilding (setting) mortar and with completely filled bed, head, and collar joints. Butter ends with enough mortar to fill head joints and shove into place. Wet both replacement and surrounding bricks that have ASTM C 67 initial rates of absorption (suction) of more than 30 g/30 sq. in. per min. Use wetting methods that ensure that units are nearly saturated but surface is dry when laid.
 - 1. Tool exposed mortar joints in repaired areas to match joints of surrounding existing brickwork.
 - 2. When mortar is hard enough to support units, remove shims and other devices interfering with pointing of joints.
- J. Curing: Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours, including weekends and holidays.
 - 1. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.

3.5 PAINTING STEEL UNCOVERED DURING THE WORK

- A. Notify Architect if steel is exposed during masonry removal. Where Architect determines that steel is structural, or for other reasons cannot be totally removed, prepare and paint it as follows:
 - 1. Surface Preparation: Remove paint, rust, and other contaminants according to SSPC-SP 3, "Power Tool Cleaning", as applicable to comply with paint manufacturer's recommended preparation.

- 2. Antirust Coating: Immediately paint exposed steel with two coats of antirust coating, following coating manufacturer's written instructions and without exceeding manufacturer's recommended rate of application (dry film thickness per coat).
- B. If on inspection and rust removal, the thickness of a steel member is found to be reduced from rust by more than 1/16 inch, notify Architect before proceeding.

3.6 FINAL CLEANING

- A. After mortar has fully hardened, thoroughly clean exposed masonry surfaces of excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water applied by low-pressure spray.
 - 1. Do not use metal scrapers or brushes.
 - 2 Do not use acidic or alkaline cleaners
- B. Clean adjacent nonmasonry surfaces. Use detergent and soft brushes or cloths.
- C. Clean mortar and debris from roof; remove debris from gutters and downspouts. Rinse off roof and flush gutters and downspouts.
- D. Remove masking materials, leaving no residues that could trap dirt.

3.7 MASONRY WASTE DISPOSAL

- A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property.
- B. Masonry Waste: Remove masonry waste and legally dispose of off Owner's property.

END 04 01 20.63

Section 04 10 20.64 Brick Masonry Repointing

1. GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Repointing joints with mortar.
- 2. Repointing joints with sealant.

1.3 DEFINITIONS

A. Low-Pressure Spray: 100 to 400 psi; 4 to 6 gpm.

1.4 SEQUENCING AND SCHEDULING

- A. Order sand and gray portland cement for pointing mortar immediately after approval of Samples. Take delivery of and store at Project site enough quantity to complete Project.
- B. Work Sequence: Perform brick masonry repointing work in the following sequence, which includes work specified in this and other Sections:
 - 1. Remove plant growth.
 - 2. Inspect masonry for open mortar joints and permanently or temporarily point them before cleaning to prevent the intrusion of water and other cleaning materials into the wall.
 - 3. Remove paint.
 - 4. Clean masonry.
 - 5. Rake out mortar from joints surrounding masonry to be replaced and from joints adjacent to masonry repairs along joints.
 - 6. Repair masonry, including replacing existing masonry with new masonry materials.
 - 7. Rake out mortar from joints to be repointed.
 - 8. Point mortar and sealant joints.

- 9. After repairs and repointing have been completed and cured, perform a final cleaning to remove residues from this work.
- 10. Where water repellents are to be used on or near masonry work, delay application of these chemicals until after pointing and cleaning.
- C. As scaffolding is removed, patch anchor holes used to attach scaffolding. Patch holes in masonry units according to Section 040120.63 "Brick Masonry Repair." Patch holes in mortar joints according to "Repointing Masonry" Article.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
 - 2. Include recommendations for product application and use. Include test data substantiating that products comply with requirements.

B. Shop Drawings:

- 1. Include plans, elevations, sections, and locations of repointing work on the structure.
- 2. Show provisions for expansion joints or other sealant joints.
- 3. Show locations of scaffolding and points of scaffolding in contact with masonry. Include details of each point of contact or anchorage.

C. Samples for Verification: For the following:

- 1. Each type, color, and texture of pointing mortar in the form of sample mortar strips, 6 inches long by 1/2 inch wide, set in aluminum or plastic channels.
 - a. Include with each Sample a list of ingredients with proportions of each. Identify sources, both supplier and quarry, of each type of sand and brand names of cementitious materials and pigments if any.
- 2. Sealant materials.
- 3. Accessories: Each type of accessory and miscellaneous support.

1.6 INFORMATIONAL SUBMITTALS

- A. Preconstruction Test Reports: For existing masonry units and mortar.
- B. Quality-control program.

1.7 QUALITY ASSURANCE

- A. Brick Masonry Repointing Specialist Qualifications: Engage an experienced brick masonry repointing firm to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience in only installing masonry is insufficient experience for masonry repointing work.
- B. Quality-Control Program: Prepare a written quality-control program for this Project to systematically demonstrate the ability of personnel to properly follow methods and use materials and tools without damaging masonry. Include provisions for supervising performance and preventing damage.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged materials to Project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of products.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- C. Store hydrated lime in manufacturer's original and unopened containers. Discard lime if containers have been damaged or have been opened for more than two days.
- D. Store sand where grading and other required characteristics can be maintained and contamination avoided.

1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit repointing work to be performed according to product manufacturers' written instructions and specified requirements.
- B. Temperature Limits, General: Repoint mortar joints only when air temperature is between 40 and 90 deg F and is predicted to remain so for at least seven days after completion of the Work unless otherwise indicated.
- C. Cold-Weather Requirements: Comply with the following procedures for mortar-joint pointing unless otherwise indicated:
 - 1. When air temperature is below 40 deg F, heat mortar ingredients and existing masonry walls to produce temperatures between 40 and 120 deg F.
 - 2. When mean daily air temperature is below 40 deg F, provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for seven days after pointing.

D. Hot-Weather Requirements: Protect mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar materials. Provide artificial shade and wind breaks, and use cooled materials as required to minimize evaporation. Do not apply mortar to substrates with temperatures of 90 deg F and above unless otherwise indicated.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Source Limitations: Obtain each type of material for repointing brick masonry (cement, sand, etc.) from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 MORTAR MATERIALS

- A. Portland Cement: ASTM C 150/C 150M, Type I or Type II, except Type III may be used for cold-weather construction; white or gray, or both where required for color matching of mortar.
 - 1. Provide cement containing not more than 0.60 percent total alkali when tested according to ASTM C 114.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Masonry Cement: ASTM C 91/C 91M.
- D. Mortar Cement: ASTM C 1329/C 1329M.
- E. Mortar Sand: ASTM C 144.
 - 1. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match.
 - 2. Color: Natural sand or ground marble, granite, or other sound stone of color necessary to produce required mortar color.
- F. Mortar Pigments: ASTM C 979/C 979M, compounded for use in mortar mixes, and having a record of satisfactory performance in masonry mortars.
- G. Water: Potable.

2.3 ACCESSORY MATERIALS

A. Sealant Materials:

- 1. Sealant manufacturer's standard elastomeric sealant(s) of base polymer and characteristics indicated below and according to applicable requirements in Section 07 90 05 "Joint Sealants."
 - a. Type: Single-component, nonsag urethane sealant.
- 2. Colors: Provide colors of exposed sealants to match colors of mortar adjoining installed sealant unless otherwise indicated.
- 3. Ground-Mortar Aggregate: Custom crushed and ground pointing mortar sand or existing mortar retrieved from joints. Grind to a particle size that matches the adjacent mortar aggregate and color. Remove all fines passing the No. 100 sieve.

B. Joint-Sealant Backing:

- 1. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin) or Type B (bicellular material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- 2. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended in writing by sealant manufacturer for preventing sealant from adhering to rigid, inflexible, joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.
- C. Masking Tape: Nonstaining, nonabsorbent material; compatible with mortar, joint primers, sealants, and surfaces adjacent to joints; and that easily comes off entirely, including adhesive.
- D. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup:
 - 1. Previous effectiveness in performing the work involved.
 - 2. Minimal possibility of damaging exposed surfaces.
 - 3. Consistency of each application.
 - 4. Uniformity of the resulting overall appearance.
 - 5. Do not use products or tools that could leave residue on surfaces.

2.4 MORTAR MIXES

- A. Measurement and Mixing: Measure cementitious materials and sand in a dry condition by volume or equivalent weight. Do not measure by shovel; use known measure. Mix materials in a clean, mechanical batch mixer.
 - 1. Mixing Pointing Mortar: Thoroughly mix cementitious materials and sand together before adding any water. Then mix again, adding only enough water to produce a damp, unworkable mix that retains its form when pressed into a

- ball. Maintain mortar in this dampened condition for 15 to 30 minutes. Add remaining water in small portions until mortar reaches desired consistency. Use mortar within one hour of final mixing; do not retemper or use partially hardened material.
- B. Colored Mortar: Produce mortar of color required by using specified ingredients. Do not alter specified proportions without Architect's approval.
 - 1. Mortar Pigments: Where mortar pigments are indicated, do not add pigment exceeding 10 percent by weight of the cementitious or binder materials, except for carbon black which is limited to 2 percent, unless otherwise demonstrated by a satisfactory history of performance.
- C. Do not use admixtures in mortar unless otherwise indicated.
- D. Mixes: Mix mortar materials in the following proportions:
 - 1. Pointing Mortar by Type: ASTM C 270, Proportion Specification, Type N unless otherwise indicated; with cementitious material limited to portland cement and lime or mortar cement. Add mortar pigments to produce mortar colors required.

PART 3 - EXECUTION

3.1 PROTECTION

- A. Prevent mortar from staining face of surrounding masonry and other surfaces.
 - 1. Cover sills, ledges, and other projecting items to protect them from mortar droppings.
 - 2. Keep wall area wet below pointing work to discourage mortar from adhering.
 - 3. Immediately remove mortar splatters in contact with exposed masonry and other surfaces.
- B. Remove downspouts and associated hardware adjacent to masonry and store during masonry repointing. Reinstall when repointing is complete.
 - 1. Provide temporary rain drainage during work to direct water away from building.

3.2 MASONRY REPOINTING, GENERAL

A. Appearance Standard: Repointed surfaces are to have a uniform appearance as viewed from 100 feet away by Architect.

3.3 REPOINTING MASONRY

- A. Rake out and repoint joints to the following extent:
 - 1. All joints in areas indicated.
 - 2. Joints indicated as sealant-filled joints.
 - 3. Joints at locations of the following defects:
 - a. Holes and missing mortar.
 - b. Cracks that can be penetrated 1/4 inch or more by a knife blade 0.027 inch thick
 - c. Cracks 1/16 inch or more in width and of any depth.
 - d. Hollow-sounding joints when tapped by metal object.
 - e. Eroded surfaces 1/4 inch or more deep.
 - f. Deterioration to point that mortar can be easily removed by hand, without tools.
 - g. Joints filled with substances other than mortar.
- B. Do not rake out and repoint joints where not required.
- C. Rake out joints as follows, according to procedures demonstrated in approved mockup:
 - 1. Remove mortar from joints to depth of joint width plus 1/8 inch, but not less than 1/2 inch or not less than that required to expose sound, unweathered mortar. Do not remove unsound mortar more than 2 inches deep; consult Architect for direction.
 - 2. Remove mortar from masonry surfaces within raked-out joints to provide reveals with square backs and to expose masonry for contact with pointing mortar. Brush, vacuum, or flush joints to remove dirt and loose debris.
 - 3. Do not spall edges of masonry units or widen joints. Replace or patch damaged masonry units as directed by Architect.
- D. Notify Architect of unforeseen detrimental conditions including voids in mortar joints, cracks, loose masonry units, rotted wood, rusted metal, and other deteriorated items.
- E. Pointing with Mortar:
 - 1. Rinse joint surfaces with water to remove dust and mortar particles. Time rinsing application so, at time of pointing, joint surfaces are damp but free of standing water. If rinse water dries, dampen joint surfaces before pointing.
 - 2. Apply pointing mortar first to areas where existing mortar was removed to depths greater than surrounding areas. Apply in layers not greater than 3/8 inch until a uniform depth is formed. Fully compact each layer, and allow it to become thumbprint hard before applying next layer.

- 3. After deep areas have been filled to same depth as remaining joints, point joints by placing mortar in layers not greater than 3/8 inch. Fully compact each layer and allow to become thumbprint hard before applying next layer. Where existing masonry units have worn or rounded edges, slightly recess finished mortar surface below face of masonry to avoid widened joint faces. Take care not to spread mortar beyond joint edges onto exposed masonry surfaces or to featheredge the mortar.
- 4. When mortar is thumbprint hard, tool joints to match original appearance of joints as demonstrated in approved mockup. Remove excess mortar from edge of joint by brushing.
- 5. Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours, including weekends and holidays.
- 6. Hairline cracking within mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.
- F. Pointing with Sealant: Comply with Section 07 90 05 "Joint Sealants." and as follows:
 - 1. After raking out, keep joints dry and free of mortar and debris.
 - 2. Clean and prepare joint surfaces. Prime joint surfaces unless sealant manufacturer recommends against priming. Do not allow primer to spill or migrate onto adjoining surfaces.
 - 3. Fill sealant joints with specified joint sealant.
 - a. Install cylindrical sealant backing beneath the sealant. Where space is insufficient for cylindrical sealant backing, install bond-breaker tape.
 - b. Install sealant using only proven installation techniques that ensure that sealant is deposited in a uniform, continuous ribbon, without gaps or air pockets, and with complete wetting of the joint bond surfaces equally on both sides. Fill joint flush with surrounding masonry and matching the contour of adjoining mortar joints.
 - c. Install sealant as recommended in writing by sealant manufacturer but within the following general limitations, measured at the center (thin) section of the bead:
 - 1) Fill joints to a depth equal to joint width, but not more than 1/2 inch deep or less than 1/4 inch deep.
 - d. Tool sealant to form smooth, uniform beads, slightly concave. Remove excess sealant from surfaces adjacent to joint.
 - e. Sanded Joints: Immediately after first tooling, apply ground-mortar aggregate to sealant, gently pushing aggregate into the surface of sealant. Lightly retool sealant to form smooth, uniform beads, slightly concave. Remove excess sealant and aggregate from surfaces adjacent to joint.
 - f. Do not allow sealant to overflow or spill onto adjoining surfaces, or to migrate into the voids of adjoining surfaces, particularly rough textures.

Remove excess and spillage of sealant promptly as the work progresses. Clean adjoining surfaces by the means necessary to eliminate evidence of spillage, without damage to adjoining surfaces or finishes, as demonstrated in an approved mockup.

G. Where repointing work precedes cleaning of existing masonry, allow mortar to harden at least 30 days before beginning cleaning work.

3.4 FINAL CLEANING

- A. After mortar has fully hardened, thoroughly clean exposed masonry surfaces of excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water applied by low-pressure spray.
 - 1. Do not use metal scrapers or brushes.
 - 2. Do not use acidic or alkaline cleaners.
- B. Clean adjacent nonmasonry surfaces. Use detergent and soft brushes or cloths.
- C. Remove masking materials, leaving no residues that could trap dirt.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage qualified testing agency to perform tests and inspections. Allow inspectors use of lift devices and scaffolding, as needed, to perform inspections.
- B. Architect's Project Representatives: Architect will assign Project representatives to help carry out Architect's responsibilities at the site, including observing progress and quality of portion of the Work completed. Allow Architect's Project representatives use of lift devices and scaffolding, as needed, to observe progress and quality of portion of the Work completed.
- C. Notify Architect's Project representatives in advance of times when lift devices and scaffolding will be relocated. Do not relocate lift devices and scaffolding until Architect's Project representatives have had reasonable opportunity to make inspections and observations of work areas at lift device or scaffold location.

END 04 01 20.64

+-1. GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Steel framing and supports for applications where framing and supports are not specified in other Sections.
 - Metal ladders.
- B. Products furnished, but not installed, under this Section include the following:
 - 1. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.

1.3 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.4 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Paint products.
 - 2. Grout.

- B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:
 - 1. Steel framing and supports for applications where framing and supports are not specified in other Sections.
 - 2. Metal ladders

1.5 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code Steel."
 - 2. AWS D1.2/D1.2M, "Structural Welding Code Aluminum."
 - 3. AWS D1.6/D1.6M, "Structural Welding Code Stainless Steel."

1.6 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 METALS

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
- B. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- C. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.
- D. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40) unless otherwise indicated.
- E. Cast Iron: Either gray iron, ASTM A 48/A 48M, or malleable iron, ASTM A 47/A 47M, unless otherwise indicated.

2.2 FASTENERS

A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or

- ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
- B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.
- C. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 325, Type 3; with hex nuts, ASTM A 563, Grade C3; and, where indicated, flat washers.
- D. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F 593; with hex nuts, ASTM F 594; and, where indicated, flat washers; Alloy Group 1.
- E. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563; and, where indicated, flat washers.
 - 1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.
- F. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.
- G. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F 2329.
- H. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
 - 1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.
 - 2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594.

2.3 MISCELLANEOUS MATERIALS

- A. Shop Primers: Provide primers that comply with Section 09 9100 "Painting."
- B. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.
- C. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.4 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Form exposed work with accurate angles and surfaces and straight edges.
- E. Weld corners and seams continuously to comply with the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
- G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads
- J. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.5 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
 - 1. Fabricate units from slotted channel framing where indicated.
 - 2. Furnish inserts for units installed after concrete is placed.
- C. Galvanize miscellaneous framing and supports where indicated.
- D. Prime miscellaneous framing and supports with primer specified in Section 09 9100 "Painting" where indicated.

2.6 METAL LADDERS

- A. General:
 - 1. Comply with ANSI A14.3.
- B. Steel Ladders:
 - 1. Prefinished aluminum ladders as indicated on the Drawings.
 - 2. Acceptable manufacturers:
 - a Precision Ladders
 - b. Alaco
 - c. FixFast USA

2.7 FINISHES, GENERAL

- A. Finish metal fabrications after assembly.
- B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.8 STEEL AND IRON FINISHES

- A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products.
 - 1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
- B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

- C. Shop prime iron and steel items unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.
 - 1. Shop prime with primers specified in Section 09 9100 " Painting" unless indicated.
- D. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:
 - 1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 3. Other Items: SSPC-SP 3, "Power Tool Cleaning."
- E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
 - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
- C. Field Welding: Comply with the following requirements:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

5.4.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.
- F. Corrosion Protection: Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
 - 1. Cast Aluminum: Heavy coat of bituminous paint.
 - 2. Extruded Aluminum: Two coats of clear lacquer.

3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.
- B. Anchor supports for operable partitions securely to, and rigidly brace from, building structure.

3.3 ADJUSTING AND CLEANING

- A. Touchup Priming: Immediately after erection, clean field welds, bolted connections, and abraded areas. Prime uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
 - 1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.
- B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780/A 780M.

END 05 50 00

Section 06 10 00- Carpentry

1. GENERAL

1.1 WORK INCLUDES

A Base Bid

- 1. General Contractor Provide and Install:
 - a. Installation of roof deck closures where gravity vents and chimneys are removed.
 - b. Replacement of wood roof deck where required.
 - c. Installation of miscellaneous framing, bracing, blocking, grounds, curbs, headers, etc.

1.2 QUALITY ASSURANCE

- A. Grading rules of the following associations apply to materials furnished under this section:
 - 1. Southern Pine Inspection Bureau (SPIB).
 - 2. West Coast Lumber Inspection Bureau (WCLIB).
 - 3. Western Wood Products Association (WWPA).
 - 4. American Plywood Association (APA).
 - 5. U.S. Product Standard.
 - 6. Commercial Standard (CS).
 - 7. The Architectural Woodwork Institute (AWI).
 - 8. American Hardwood Association (AHA).

B. Grade Marks:

- 1. All lumber shall be grade stamped indicating symbol of grading agency, mill number, grade of lumber, species, rules under which graded.
- 2. All plywood shall be identified with the appropriate grade-trade-mark of the APA.
- C. Preservative treated lumber shall bear the Quality Mark of the American Wood Preservers Bureau, LP2.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Immediately upon delivery of job site:
 - 1. Store materials a minimum of 6 inches above ground, on blocking.

- 2. Cover with protective waterproof cover providing for adequate air circulation or ventilation
- B. Do not store seasoned materials in wet or damp areas.
- C. The woodwork manufacturer and the general contractor shall be jointly responsible to make certain that woodwork is not delivered until the building and storage areas are sufficiently dry, so that the woodwork will not be damaged by excessive changes in moisture content.
- D. 2. PRODUCTS

2.1 MATERIALS

A. Lumber:

- 1. Dimensions shown and/or specified are nominal.
- 2. Maximum moisture content of lumber 2 inches or less in thickness represented as kiln dried shall be dried to 15%, and over 2 inches to 19%.
- 3. Surface four sides (S4S) unless specified or shown otherwise.
- 4. Lumber for blocking, grounds and curbs shall be #2 or better Southern Yellow Pine.
- B. Pressure Treated Wood Products indicated on Drawings as "treated" shall be impregnated with Chromated Copper Arsenate (CCA) conforming to American Wood Preservers Association (AWPA) Standard P5. The preservative shall be applied in a closed cylinder by pressure process in accordance with AWPA Standard C2. Retention of CCA dry salts shall be .23 pounds per cubic foot.
- C. Plywood Roof Sheathing Exterior, Structural I sheathing.

3. EXECUTION

3.1 CONDITIONS OF SURFACES

A. Verify that surfaces to receive rough carpentry materials are prepared to exact grades and dimensions.

END 06 10 00

DIVISION 7 - THERMAL & MOISTURE PROTECTION Section 07 53 23 - EPDM MEMBRANE ROOFING

1 GENERAL

A WORK INCLUDES

- 1 Base Bid
 - a) General Contractor provide single-ply EPDM fully adhered membrane roofing and flashing system as shown and herein specified.
 - (1) Remove existing construction:
 - (a) Gravel surface.
 - (b) Roofing membranes.
 - (c) Counterflashings.
 - (d) Roof drain flashings.
 - (e) Gravel stops.
 - (f) Base flashings.
 - (g) Cants.
 - (h) Insulation.
 - (i) Roof projection flashings.
 - (j) Non-friable asbestos containing flashing. See Section 02 26 25.
 - (2) Temporarily remove existing: Roof top units, exhaust fans, and other equipment as required.
 - (3) Install new:
 - (a) Vapor retarder.
 - (b) Insulation.
 - (c) Coverboard.
 - (d) Roof membrane.
 - (e) Seam tape.
 - (f) Seam cover.
 - (g) Base flashing.
 - (h) Roof projection flashings.
 - (i) Roof drain flashings.
 - (i) Termination bar.
 - (k) Walkway pads.
 - (1) Counterflashing.
 - (m) Scuppers.
 - (n) Coping cap.
 - (o) Fascia and soffit panels.
 - (p) Equipment curbs.

(q) Expansion joints.

B RELATED WORK

- 1. Specified elsewhere:
 - a) 02 26 25 Non-Friable Asbestos Roofing Removal.
 - b) 06 10 00 Rough Carpentry.
 - c) 07 90 05 Joint Sealants.
- C DEFINITIONS Roofing System Manufacturer: Any of the manufacturers whose systems are specified under "Acceptable Roofing System Manufacturers" in this section hereinafter called "manufacturer."

D QUALITY ASSURANCE

1. Qualifications:

- a) The installing contractor shall be approved or franchised by the roofing system manufacturer.
- b) The job foreman shall be trained by the manufacturer in the installation of the specified system.
- c) The installing contractor shall comply with the Illinois Roofing Industry Licensing Act.

2. Manufacturer's Qualifications:

- a) The A/E has certificates (CDB Form RSMC) on file from each of the specified manufacturers stating:
 - (1) They have examined project drawings, specifications and warranty requirements.
 - (2) Their specified products are acceptable for and compatible with the roofing and flashing system design.
 - (3) They will issue the specified warranty if the roofing and flashing systems are installed in accord with their requirements.

E REFERENCES

1. Cited Standards and specified manufacturers' catalogs, current at the date of bidding documents, unless otherwise specified, are incorporated herein by reference and govern the work. If conflict is discovered between referenced Standards or catalogs and the project specifications, request written

clarification from the A/E. Do not proceed with the work until receiving clarification

2. Standards:

- a) American Society for Testing and Materials (ASTM).
- b) Factory Mutual Laboratories (FM).
- c) Underwriters Laboratories (UL)
- d) Sheet Metal and Air Conditioning Contractors National Assoc. (SMACNA)

F SUBMITTALS

- 1. Make all submittals in accord with the Standard Documents for Construction, Section 01 33 23.
- 2. Endorsement of Roofing Firm: Contractor: Within 15 days of receiving the Notice of Award, submit the manufacturer's endorsement of the installing firm.

3. Shop Drawings:

- a) Submit shop drawings to the manufacturer for review and comment.
- b) Submit only manufacturer reviewed shop drawings to the A/E.
- c) Minimum Scale for Roof Plan: 1/8" = 1'0".
- d) Minimum Scale for Details: 1-1/2'' = 1'0.
- e) Submit the following:
 - (1) Tapered roof insulation plan.
 - (2) Insulation fastener pattern.
 - (3) Base flashings.
 - (4) Reglets.
 - (5) Membrane terminations.
 - (6) Roof projection flashings.
 - (7) Roof drains.
 - (8) Sheet metal:
 - (a) Counterflashing.
 - (b) Gravel stop/fascia.

- (c) Scupper.
- (d) Copings.
- (e) Expansion joint cover.
- (f) Equipment curbs.
- (g) Gutters and downspouts.

4. Samples:

- a) Roof insulation, 8" x 10, 2 pieces.
- b) Insulation fastener and plate, 2 of each.
- c) EPDM membrane, 8" x 10", 2 pieces.
- d) Sheet Metal:
 - (1) Metal used with roofing, 4" x 4" of each type, 3 pieces.
 - (2) Expansion joint cover, 4" length, 2 pieces.

5. Product Data:

- a) Manufacturer's specifications for roofing system, 2 sets.
- b) Roof insulation specifications, 2 sets.

G DELIVERY, STORAGE AND HANDLING

- 1. Per roofing manufacturer's recommendations.
- 2. Deliver materials requiring fire resistant classifications packaged with labels intact and legible.

Η JOB CONDITIONS

- 1. Existing Construction: (*A/E: Provide the information below):
 - a) Currens Hall Existing roofing consists of ballasted EPDM membrane atop 2" rigid insulation over concrete roof deck.
 - b) Heating Plant Annex Existing roofing consists of fully adhered EPDM membrane atop built-up roofing layer over 1" rigid insulation over wood roof deck.
- 2. Existing Asbestos Containing Material:

a) The existing flashing at the Heating Plant Annex has been tested and contains asbestos. See Section 02 26 25

3. Protection:

- a) Protect roof membrane, building surfaces, paving, and landscaping from traffic and roofing equipment.
- b) Restore or replace all work or materials damaged by the roofing operation.
- c) Remove protection materials upon completion of the work.
- 4. Sequencing, Scheduling Coordination: In accord with the Standard Documents for Construction, Section 01 31 20.
- 5. Comply with all regulations imposed by the using agency at the job site.

I WARRANTY

- 1. General Contractor: Two years in accord with the Standard Documents for Construction, Section 01 78 36.
- 2. Manufacturer: Execute CDB's Roofing System Manufacturer's Warranty CDB Form RSMW. See the final pages of this section.

2. <u>PRODUCTS</u>

A MATERIALS For the entire roofing system provide adhesives, sealants, premolded and field fabricated flashings, fasteners, and other related components manufactured or recommended by the selected manufacturer.

B ACCEPTABLE ROOFING SYSTEM MANUFACTURERS

<u>CODE</u>	BRAND	MANUFACTURER
1 (1.17)	G G 1	
1. CAR	Sure-Seal	Carlisle SynTec Systems, Carlisle, PA.
2. FIR	Rubbergard	Firestone Building Products Co., Carmel, IN.
3. GTR	GenFlex	Genflex Roofing Systems, Maumee, OH.
4. MAN	SPM	Johns-Manville, Denver, CO.
5. VER	Versigard	Versico, Inc., Akron, OH.
6. MHP	Mule-Hide	Mule-Hide Products Co., Inc., Beloit, WI

C ACCEPTABLE SYSTEMS

1. Fully Adhered .060 EPDM

- a) CAR Design "A"b) FIR Rubbergard
- c) GTR Genflex
- d) MAN SE6A
- e) VER Versigard
- f) MHP Mule-Hide
- 2. Manufacturer's 6" wide, pressure-sensitive, self-adhering EPDM seam cover.

D ROOF INSULATION

1. <u>INSULATION TYPE</u>

a) BASE INSULATION	<u>ASTM</u>	<u>R/INCH</u>
(1) Fiberboard	C612	2.78
(2) Polyisocyanurate	C1289	5.70
(3) Mineral Wool Fiber	r C726	3.80

- b) SUBSTRATE BOARD (1/2")
 - (1) Dens Deck Prime Georgia Pacific
 - (2) Securock United States Gypsum
 - (3) DEXcell National Gypsum
- c) COVERBOARD (1/2")
 - (1) Isogard HD Firestone
 - (2) Invinsa Johns Manville
 - (3) SecurShield HD Carlisle
 - (4) H-Shield Hunter Panels
- 2. Roof Insulation for Tapered Areas:
 - a) Minimum Thickness: 4.8 inches Slope: 1/4 in./ft. except as noted on plans.
 - b) Crickets & Saddles: Slope: 1/4 in./ft. (min.)
 - c) ½" coverboard.
- **E INSULATION FASTENERS**

1. Adhesive manufactured or approved by the roofing system manufacturer, and that have Factory Mutual approval.

F OTHER MATERIALS

- 1. Wood Nailers: Wood shall be No. 2 or better construction grade lumber.
- 2. Manufacturer's EPDM Flashing.
- 3. Vapor Retarder: Manufacturers:
 - CAR 725TR (concrete deck), VapAir Seal MD (wood deck) a)
 - b) FIR – V-Force
 - GTR Vapor Shield c)
 - MAN JM Vapor Barrier SA d)
 - VER 725TR (concrete deck), VapAir Seal MD (wood deck) e)
 - MHP F5f)
- 4. Termination Bar: Required by CDB on all wall terminations. Attach 6" o.c.
 - (1) .040" x 1" aluminum bar under counterflashing or other restricted
 - (2) .1/8" x 1-1/2" aluminum bar with 45° sealant pocket where space permits.
- 5. Rubber Walkway Pads: Furnished by the roofing manufacturer.

G METAL FLASHINGS

- 1. Counterflashing: Factory-made, 2-piece that can be removed and reused for repairs or next re-roof, with metal wedges in reglets.
- 2. Coping cap: Factory-made, 2-piece with water dam and snap-on cover in lengths not exceeding 12 feet, designed for EPDM. Smooth, two-coat fluoropolymer finish, color as selected by Architect from manufacturer's standard colors.
 - a) GAF.
 - b) W.P. Hickman.
 - c) Metal-Era, Inc.
 - d) Pac-Clad

3. EXECUTION

A ENVIRONMENTAL CONDITIONS

- 1. Remove existing roofing only in dry weather.
- 2. Install roofing only in dry weather.
- 3. Comply with manufacturer's climatic restrictions.

B REMOVE EXISTING CONSTRUCTION

- 1. Temporary Removals: As indicated on the drawings.
- 2 Permanent Removals:
 - a) Remove all existing roof membrane, roof insulation, flashing, and related components down to the roof deck on the areas indicated on the drawings.
 - b) Asbestos containing flashing in accord with Section 02 26 25.

C INSPECTION

- 1. Examine all surfaces for inadequate anchorage, foreign material, moisture, unevenness, or other conditions which could prevent the best quality and longevity of roofing, flashing, and accessory components. Notify the A/E of all deficiencies.
- 2. Do not proceed with the work until all deficiencies have been corrected to the satisfaction of the A/E and the roofing manufacturer.

D PREPARATION

- 1. Ensure that all surfaces are clean and dry before starting and during performance of work.
- 2. Verify that all work of other contractors and subcontractors which penetrates the roof deck or requires men and equipment to traverse the roof deck has been completed.

E INSTALLATION

- 1. Install the roof insulation with end joints staggered at mid-point in each layer. Offset all joints between layers a minimum of six inches.
 - a) Install insulation per manufacturer's recommendations.

- 2. Install the roofing and flashing system and all accessory items in accord with the manufacturer's printed instructions.
- 3. Install all field seams using the manufacturer's seam tape, primers, and cleaners, and in accord with the manufacturer's recommendations.
- 4. Centered over all field seams, apply a minimum 6" wide strip of pressure sensitive, self-adhering EPDM.
- 5. Re-install all items noted to be temporarily removed.

F FIELD QUALITY CONTROL

- 1. The A/E will provide onsite observation during installation.
- 2. The roofing manufacturer will provide onsite observation and instruction as they deem necessary.

G ADJUST AND CLEAN

- 1. Carefully inspect all completed work and correct all defects.
- 2. Remove from the job site and legally dispose of all debris.
- 3. Remove all tools, equipment, and construction aids.
- 4. Prevent storage of materials and equipment on the completed roof.
- 5. Accompany the manufacturer's technical inspector and assist with equipment and workmen if necessary to provide access to the roof. Correct all defects noted during the inspection.

NOTE: The RSMW is on the next two pages of this Section. Complete the known information and edit the Weathertight Warranty length before inserting as the final pages of Section 07 53 23.

State of Illinois CAPITAL DEVELOPMENT BOARD

RSMW

Roofing System Manufacturer's Warranty

Manufacturer's Warranty Number(s):					
Effective Date:		Ending Date:			
Metal Finish Warranty Ler	ngth:				
Manufacturer Name:		Watertight Warranty Length: (*20) Years			
Telephone #:	Fax #:	CDB Project No. 818-010-103			
E-Mail:		CDB Project Manager: Heather Oxley			
Address:		Agent: Capital Development Board, 3 rd Floor, William G. Stratton Building, Springfield, IL 62706			
Roof Specification-System N	fame:	Using Agency: Western Illinois University			
Total Warranty - Square Food Building Square Footage: (Li		Site Address: 1050 W. University Drive, Macomb			
Building # -	s.f.	Building Name: Currens Hall CDB Building No.: T4005 Identify Area of Work: Roof			
Building # -	s.f.	Additional Building(s): 601 Sherman Drive, Macomb			
Building # -	s.f.				
Lin. Ft. Flashing:		Building Name: Heating Plant Annex CDB Building No.: 4019 Identify Area of Work: Roof			
Insulation Type(s):					
Roofing Contractor:					
Address:					
Telephone No.:	Fax #:				
Note: Contractor - Complete Section II below.	te information above and	Note: A/E - Edit Warranty length & complete information above.			

WARRANTY

- I. The Roofing System Manufacturer hereinafter called "Manufacturer" acknowledges that it has previously reviewed the drawings and specifications for the roofing system and certified that the design is acceptable for this Warranty. The Manufacturer warrants to the Building Owner named above, that, subject to the provisions of this document, the Manufacturer will, at its own expense, make or cause to be made all repairs necessary to maintain the roofing system in a watertight condition during the warranty period stated above which commences on the date of Substantial Completion of the roofing system. System includes:
 - A. Membrane(s).
 - B. Flashings (except metal or components not furnished by the Manufacturer as part of its advertised system).
 - C. Insulation.
 - D. Fasteners and adhesives.

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- II. Limitation: The Manufacturer's liability under this Warranty shall be limited to (\$) which is the Owner's original cost of the installed roofing system per CDB Contractor Schedule of Values (CSV).
- III. OWNER'S RESPONSIBILITY: The Owner will notify the Manufacturer if repairs covered by the Warranty are required. The notice will be by, Telephone, Fax, E-mail, or Mail, to the Manufacturer's office specified in the Manufacturer's Maintenance Manual within 30 days of discovery of leaks or other defects in the roofing system. The Owner will provide the Manufacturer free access to the building during regular business hours over the life of the Warranty. The Owner acknowledges that the Manufacturer has provided its Roofing Maintenance Manual, including instructions necessary for the Owner to inspect and maintain the roofing system during the warranty period.
- IV. EXCLUSIONS: The following are excluded from this Warranty:
 - A. Roof maintenance for corrections of conditions other than leaks.
 - B. Damage to any part of the building (other than the roofing system) or to its contents.
 - C. Damage resulting from repairs made to the roofing system without the Manufacturer's prior authorization.
 - D. Damage resulting from any one of the following:
 - 1. Settlement, expansion, contraction, cracking, warping, deflection or movement of roof deck, walls, coping structural members or building foundation.
 - 2. Natural disasters (i.e., windstorm, hail, flood, hurricane, cyclone, lighting, tornado or earthquake).
 - 3. Changes in building usage; new installations on, through or adjacent to the roofing system made after the effective date of this Warranty, unless the Manufacturer has given prior written approval of such changes in building usage or new installations.
 - 4. Accidents, vandalism or other uncontrollable events.
 - 5. Lack of positive drainage (standing water) for asphalt built-up systems.
 - 6. Chemical attacks on the membrane from sources unknown or not present at time of roofing installation.
 - 7. Falling objects, misuse or abuse of the roofing system, traffic, recreational activities or storage of material on the roofing system.
 - 8. Infiltration or condensation of moisture in, through or around walls, copings, building structure or underlying or surrounding areas.
 - 9. Movement or deterioration of metal components adjacent to the roof (except where such components are a part of the Manufacturer's advertised roofing system).
 - 10. Failure of materials supplied by others (except where such materials are a part of the specified roofing system certified by the Manufacturer prior to bidding the roofing work).
 - 11. Tests or test cuts not authorized by the Manufacturer.
 - 12. Failure of the Owner to provide maintenance in accord with the Roofing Maintenance Manual.
 - 13. Failure of the Owner to notify the Manufacturer of leaks or other defects within 30 days of discovery.
 - E. The implied warranties of merchantability and fitness for a particular purpose are excluded.

In Witness Whereof: Manufacturer and Owner have caused this Warranty to be duly executed on the dates below.

MANUFACTURER: ,	OWNER
a State of Corporation with principal office at:	Address:
BY:	BY:
TITLE:	TITLE:
DATE:	DATE:

E-MAIL THIS FORM: This form may be submitted to CDB electronically for review. Attach a completed form to an e-mail addressed to the CDB Project Manage and/or Roofing Team member. All CDB e-mail addresses are available on our website: www.illinois.gov/cdb

Note: To meet contractual requirements, the form submitted to CDB must have original signatures.

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DIVISION 7- THERMAL & MOISTURE PROTECTION

Section 07 90 05 - Joint Sealers

1. GENERAL

1.1 WORK INCLUDES

A. Base bid:

- 1. General contractor provide:
 - a. Removal and cleaning of any existing backer sealant as required.
 - b. Install sealing and caulking of joints, including joint fillers and accessories as shown on the drawings and specified herein.

1.2 RELATED SECTIONS

A. Specified elsewhere:

- 1. Section 01 7836 Extended Warranties
- 2. Section 01 3323 Shop Drawings, Product Data, & Samples Schedule
- 4. Section 07 5323 EPDM Membrane Roofing
- 6. Section 07 7200 Roof Accessories
- 5. Section 09 9000 Painting and Coatings

1.3 REFERENCES

- A. ASTM C804 Recommended Practice for Use of Solvent Release Type Sealers.
- B. ASTM C920 Standard Specification for Elastomeric Joint Sealants.
- C ASTM Cl 193 Standard Guide for Use of Joint Sealants
- D. ASTM Dl 056 Flexible Cellular Materials--Vinyl Chloride Polymers and Copolymers (Open-Cell Foam).
- E. ASTM Dl667 Standard Specification for Flexible Cellular Materials—Vinyl Chloride Polymers and Copolymers (Closed-Cell Foam).

1.4 SUBMITTALS FOR REVIEW

A. Submit under provisions of Section 01 33 23.

- B. Product Data: Manufacturer's data on each product including sealer, primer, and cleaners and installation instructions.
- C. Samples for each color to be selected from manufacturer's custom line to match existing colors.

1.5 QUALITY ASSURANCE

- A. Installer to be experienced in a minimum of ten projects of similar size and scope.
- B. Obtain materials from a single manufacturer.
- C. Mock-Up: Provide sample at location on building as directed by Using Agency. Do not proceed until color and installation method has been approved by Using Agency and A/E. Remove rejected samples and replace with approved sample. Additional sample locations will be provided as required until method and result is acceptable to the Using Agency and A/E.
- D. Certificate: From manufacturer of product's compliance with specification requirements and suitability for use in their applications.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.7 WARRANTY

- A. Correct defective work within a ten year period after Date of Substantial Completion, see section 017836
- B. Warranty: Include coverage for material and labor to replace installed sealants and accessories which fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not cure.

2. PRODUCTS

2.1 MANUFACTURER

A SEALANT / SEALER

- 1. DOW Dow Chemical Co.
- 2. MEAD W.R. Meadows.
- 3. SIKA Sika Corporation.
- 4. PECO Pecora Chemical Corporation.

5. SON — Sonneborn Building Products.

2.2 MATERIALS

- A Provide joint sealers, joint fillers, and other related materials that are compatible with one another and with substrates under conditions of service and application, as demonstrated by sealer manufacturer based on testing and field experience.
 - 1. Sealer: Two component urethane, gun grade, polyurethane sealant. Use in exterior construction and expansion joints in precast concrete wall panels. New Backer Rods shall be compatible with Sealer.
 - a. PECO, Dynatrol II.
 - b. SON, NP-2.
 - c. SIKA, Sikaflex 2C-NS.
 - 2. Mortar / Grout: Air Entrained Structural Mortar / grout with capability for hydraulic placement.
- B. Colors: from manufacturer's full range for products of type required.

2.3 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing: Round foam rod compatible with sealant; ASTM D1667, closed cell PVC.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

3. EXECUTION

3.1 EXAMINATION

- A. Verify that joint openings are ready to receive work.
- B. Verify that joint backing and release tapes are compatible with sealant.
- C. Verify joint widths are in accordance with manufacturer's recommendations.

3.2 PREPARATION

- A. Remove loose materials and foreign matter which might impair adhesion of sealant.
- B. Clean and prime joints in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Protect elements surrounding the work of this section from damage or disfiguration.

3.3 INSTALLATION

- A. Perform installation in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM CII 93.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install bond breaker where joint backing is not used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and tool joint as per manufacturer's recommendations.
- F. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.

3.4 CLEANING

- A. Clean adjacent soiled surfaces.
- B. Remove damaged or defective work.

3.5 PROTECTION OF FINISHED WORK

A. Protect sealants until cured from damage or contamination

1.1 WORK INCLUDES

A. Base Bid:

- 1. General Contractor provide material and labor to finish paint:
 - a. Surfaces that are scheduled to be finished and noted to receive finish on the project drawings and specifications.
 - b. Touch-up work on any affected areas, such as exterior trim, wall surfaces, adjacent surfaces, and/or related surfaces, etc.

1.2 RELATED WORK

- A. Specified elsewhere:
 - 1. 011100 Project Summary.
 - 2. 013323 Shop Drawings.
 - 3. 061000 Carpentry
 - 4. 077200 Roof Accessories
 - 5. 075323 EPDM Membrane Roofing
- 1.3 SUBMITTALS: Make in accord with 013323.
 - A. Materials List: Complete list of all painting and finish materials proposed for use.
 - B. Unsuitability of Materials: No claim by the Contractor concerning unsuitability of any material specified, or his ability to produce first-class work with same, will be entertained unless such claim is made in writing to the Architect/Engineer prior to starting work.
 - C. All paint materials shall meet Class A, 0-25 flame spread rating.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver all material to the site in manufacturer's original containers with labels intact and seals unbroken. Store in well-ventilated space, secure against theft and vandalism.

Receive, open, and mix all paint in this space. If this space is on the building premises, the Contractor shall protect the floor with drop cloths or building paper. Keep storage clean and neat. Remove soiled paint rags daily. Any damaged or otherwise unacceptable products or containers shall also be removed daily. Take all precautions to avoid fires.

1.5 ENVIRONMENTAL CONDITIONS

A. Paint surfaces only when they are free from moisture, or properly dry such surfaces before painting. Do not paint exterior surfaces less than 72 hours after a rain, nor during periods of dew or fog unless specifically approved by the paint manufacturer. Do not paint when ambient temperature is below 50 degrees F unless directed otherwise in writing by the Architect/Engineer. Comply with manufacturer's recommendations as to conditions under which coatings or a coating system can be applied. Do not apply paint in areas where dust is being generated.

1.6 SCAFFOLDING AND PROTECTION

A. Provide and maintain all scaffolding, staging, ladders, planks, and drop cloths required for proper execution of work. Remove when no longer needed. If necessary, temporarily remove such items to avoid interference with work of other trades and relocated at no additional expense to the Project. Protect all other surfaces, items, and the work of all other trades from damage and/or staining due to painting operations. Likewise, protect painted and finished surfaces from damage of defacement due to other work in the building. Contractor will be responsible for restoring, repairing and/or replacing all work damaged either by painting operations or by failure to provide and maintain protection against damage to his own work.

2. PRODUCTS

2.1 MANUFACTURERS

A. Materials are specified by brand names to establish quality standard; or by performance requirements and general product description. Do not deliver any but approved materials to the job. Materials selected for coating systems for each type surface shall be products of a single manufacturer, except for shop-primed items.

2.2 MATERIALS

A. INFORMATION CONTAINED IN OR ON THE PROJECT DRAWINGS:

The accompanying drawings will indicate the finishing of such surfaces as exterior wood trim, wood components, and touch-up of metal assemblies.

B. SCHEDULE OF FINISHES AND FINISH DESIGNATIONS

The following schedule of finishes and finish designations will explain the finish

system used in these specifications and on the drawings:

PAINT SYSTEMS - EXTERIOR:

Hardboard / Wood / Composite Material, Opaque, Latex, 2 coats.

- 1. One coat of latex enamel (thinned)
- 2. One coat of latex enamel; sheen as directed.

Concrete / Masonry, Opaque, Alkyd, 2 coats.

- 1. One coat of block filler (tinted)
- 2. One coat of alkyd enamel; Sheen as directed.

Concrete / Masonry, Opaque, latex, 2 coats.

- 1. One coat of block filler (tinted).
- 2. One coat of latex enamel; Sheen as directed.

Ferrous Metals, Unprimed, Opaque, latex, 3 coats.

- 1. One coat of alkyd primer.
- 2. Two coats of alkyd enamel; Sheen as directed.

Ferrous Metals, Primed, Opaque, Alkyd, 2 coats.

- 1. Touch-up with alkyd primer.
- 2. Two coats of alkyd enamel; Sheen as directed.

Galvanized Metals, Opaque, Alkyd, 3 coats.

- 1. One coat galvanize primer.
- 2. Two coats of alkyd enamel; Sheen as directed.

Gypsum Board/Plaster, Opaque, Alkyd, 3 coats.

- 1. One coat of alkyd primer sealer.
- 2. Two coats of alkyd enamel; Sheen as directed.

Gypsum Board/Plaster, Opaque, Epoxy, 3 coats.

- 1. One coat of latex primer sealer
- 2. Two coats of two component washable chemical resistant, water based, epoxy/finish coating; Sheen as directed.

Gypsum Board / Plaster, Opaque, acrylic, 3 coats.

- 1. One coat of latex primer sealer.
- 2. Two coats of acrylic enamel; Sheen as directed.
- C. General Painting Specifications: Manufacturers
 - 1. Designations: Following abbreviations to identify listed manufacturers:

	 a. P&LPratt & Lambert, Chicago, IL. b. S-WThe Sherwin-William Co., Cleveland, OH. c. BMBenjamin Moore & Co., Montvale, NJ. d. DDevoe & Raynolds Co., Louisville, KY. e. MABM.A. Bruder & Sons, Inc., Broomall, PA 						
2.	Prime Coats: Paint all exposed surfaces one coat. Where surfaces have been shop-primed, spot prime only to touch-up damaged areas.						
	 a. Metal Surfaces: 1) Not Galvanized: a) P&LEffecto Rust Inhibiting Primer. b) S-WKromick Metal Primer. c) BMIronclad Retardo Rust-Inhibitive Paint. 						
	 2) Galvanized: a) P&LGalvanized Metal Latex Primer. b) S-WZinc Chromate Primer. c) BMIronclad Galvanized Metal Primer. 						
	 b. Gypsum Wallboard / Plaster / Wood / Composite Materials: 1) All types: a) P&LVapex Primer. b) S-WLatex Primer. c) BMLatex Quick Dry Prime Seal. 						
	 c. Concrete Block Surfaces: a) P&LPrimafil. b) S-WHeavy Duty Block Filler. c) BMBlock Filler 145. 						
3.	Finish Coats: All surfaces shall receive two (2) finish coats unless noted otherwise. All surfaces shall not have a "flat" sheen; surface must be "semi-gloss".						
	 a. Exterior Surfaces: Match Existing adjacent Colors 1) Metal Frames, Steel (W2) Satin: a) P&LAqua Satin Enamel. b) S-WProMar 200 Latex Enamel. c) BMMoorcraft Latex Enamel. 						
	 2) Gypsum Wallboard / Plaster: Match Existing Adjacent Color a) P&LOne coat-Vitra-Shield Stippling Eggshell. b) S-W Promar 200 Alkyd Eggshell Enamel. 						

2.

- c) D......Velour Interior Alkyd Eggshell Enamel.
- 3) Concrete Block: Match Existing Adjacent Color Adajacent Surfaces
 - a) P&L.....One coat Vitra-Shield Stippling Eggshell.
 - b) S-W.....One coat Promar 200 Alkyd Eggshell Enamel.
 - c) D.....One coat Velour Interior Alkyd Eggshell Enamel.

D. Materials for General Use:

- 1. Thinner: Follow manufacturer's recommendation for respective product.
- 2. Linseed Oil: Pure first quality, ASTM D260.
- 3. Putty: Pure linseed oil putty of standard manufacture with 25% white lead and sufficient varnish, thoroughly mixed to minimize shrinkage. Match final finish color of adjoining surface.
- 4. Coloring: Use tinting colors recommended by paint manufacturer for intended purpose.
- 5. Shellac: Type I, Bleached, No. 4, cut with pure grain alcohol. ASTM D207.

3. EXECUTION

3.1 SURFACE PREPARATION

- A. This Contractor shall be solely responsible for the finished appearance of his work and, therefore, he shall not commence any painting until surfaces are in proper condition. Only nominal cleaning and minor patching are expected of this Contractor. If a surface requires major repair or cannot be painted as specified, the Architect/Engineer must be notified immediately in writing. Starting of work constitutes Contractor's acceptance of surfaces involved. Contractor will be required to replace all unsatisfactory work caused by improper or defective preparation, at no additional cost to the Project.
- B. Make sure all surfaces are free from dust, dirt, and any other substances which might interfere with functioning and proper application of paint system.
- C. Before painting, surfaces must be acceptable to and approved by the Architect/Engineer.
- D. All steel and ferrous metal surfaces will have been primed before installation as specified in other divisions. Wirebrush bolts, welds, and places where prime coat has been damaged. Remove all loose paint, rust, and scale. Apply one coat of specified primer.
- E. Hand sandpaper wood surfaces and dust clean. Seal knots and sappy portions with clear shellac. Putty all nail holes, cracks, after prime coat is dry.

- F. Wash galvanized surfaces with a vinegar solution or mineral spirits.
- G. Gypsum / Plaster surfaces shall be dry, clean and free of other contaminants, free of flaking, crumbling, or chalking. Dull glossy old paints by light sanding. Remove any loose, chipped, peeling or blistered old paint by scraping or sanding. Patch holes and cracks.

3.2 INSTALLATION/APPLICATION/PERFORMANCE

- A. Employ only skilled and experienced painters, working under supervision of capable foreman. All workmanship must be of highest quality, to the Architect/Engineer's satisfaction.
- B. Apply all materials in accord with manufacturer's current printed directions. Thin materials only for proper workability and only in compliance with such directions. Flow all materials on smoothly, without runs or sagging, and free from drops, ridges, laps and brush marks. Ensure that all coats are thoroughly dry before applying succeeding coats. Sand surfaces between coats as necessary to produce a smooth finish.
- C. Tinting and matching of colors shall be done to the satisfaction of the Architect/Engineer, by inspection of a test area on the actual surface.
- D. Painting includes all exposed surfaces of every member. Before installation, paint all parts which will be inaccessible after assembly.
- E. Complete surfaces shall be free of blistering, running, peeling, scaling, streaks and stains.
- F. Appropriate trades will remove hardware, lighting fixtures, and heating equipment as required to permit painting of surrounding surface. Upon completion of painting, they will replace and reconnect such items.
- G. Do not paint over UL labels.

3.3 ADJUST AND CLEAN

A. Upon completion of work, carefully inspect all painted surfaces for defects needing retouching. Leave all other surfaces clean and free from all paint, stain, spatters, smears, and smudges resulting from painting work.

END 09	90 00.			

1.1 SCOPE OF WORK

A. Work contemplated under this section consists of the demolition of existing plumbing systems and the installation of new plumbing systems, as indicated on the accompanying drawings and specified hereafter or as directed by the Architect.

1.2 SPECIAL INSTRUCTIONS, NOT CONTAINED HEREIN

A. Contractors are referred to "Instructions to Bidders" for any special instructions that may affect work on this Project.

1.3 APPLICABLE CODES AND ORDINANCES

- A. All plumbing work on this project shall be done in accordance with the requirements of applicable Federal, Municipal, County, and State codes, ordinances, or statutes. Each Contractor shall be responsible for familiarizing himself with all such requirements applicable to his work on this Project.
- B. Cited references, or specified portions thereof, current at date of bidding documents, unless otherwise specified, govern the work. In conflict between cited standards and project specifications, do not proceed with any work until Engineer issues written clarification.

1.4 LICENSES, PERMITS, AND INSPECTIONS

A. Contractors shall secure all licenses and permits required for work on this project and shall arrange and pay for all inspections prescribed by applicable codes and ordinances. All such expenses incurred shall be included in the bid or proposal for work on this project.

1.5 PROJECT CLEAN-UP

- A. Upon completion of this project, contractors shall be required to:
 - 1. Remove manufacturer's stickers, tags, marking, and other temporary identification from all equipment and accessories.
 - 2. Thoroughly clean all fixtures and other equipment provided as part of this project.
 - 3. Remove all markings on equipment and building surfaces placed during construction by this contractor.

- 4. Remove all waste, scrap, excess, and offal entirely from this project.
- 5. Provide any other clean-up service as required to present the best quality finished appearance a new project deserves.

1.6 SUBMITTALS

- A. Product data and Shop drawings: Submit as per Section 01 33 23
- B. Substitutions: Manufacturers not named, or specified herein may be considered for use on this Project, upon request in writing to the Architect/Engineer, at least ten (10) days prior to the receipt of bids. Manufacturers not specifically named, or specified by Addenda, will not be considered for use on this Project.

1.7 PLUMBING CONTRACTOR

- A. Base Bid, provide and install all plumbing work described hereafter, but not necessarily limited to the following:
 - 1. Modify existing roof drains, plumbing vents, plumbing piping, gas vents, gas piping, etc., and / or connections as required and re-install as required with new supports, hold-downs, boots, flashings, etc.

1.8 ELECTRICAL SERVICE CONNECTIONS BY OTHERS

A. All plumbing equipment listed in 1.07 above.

1.9 RELATED WORK BY OTHERS

- A. Framed roof, wall, openings.
- B. Electric connections for plumbing work.
- C. Roof flashing for plumbing vents.

1.10 RELATED SECTIONS

- A. Division 00 Bidding & Contract Requirements
- B. Division 01 General
- C. 07 90 05 Joint Sealers
- D. Division 26 Electrical

1.11 DELIVERY, STORAGE, AND HANDLING

- A. Materials shall be suitably packaged by manufacturer to prevent damage during shipment. Damaged materials will not be acceptable for use.
- B. Store materials on site in clean, dry storage area; when outside, elevated above grade and enclosed with durable watertight wrapping.

C.	Handle all materials carefully to prevent damage. Minor scratches, marks, or blemishes to finish shall be repaired to satisfaction of Engineer.
END 22 05 00	

1.1 SCOPE OF WORK

A. Work contemplated under this section consists of the demolition, removal, and relocation / reinstallation of existing Mechanical (HVAC) systems as indicated on the accompanying drawings and specified hereafter or as directed by the Architect.

1.2 SPECIAL INSTRUCTIONS, NOT CONTAINED HEREIN

A. Contractors are referred to "Instructions to Bidders" for any special instructions that may affect work on this Project.

1.3 APPLICABLE CODES AND ORDINANCES

- A. All Mechanical work on this project shall be done in accordance with the requirements of applicable Federal, Municipal, County, and State codes, ordinances, or statutes. Each Contractor shall be responsible for familiarizing himself with all such requirements applicable to his work on this Project.
- B. Cited references, or specified portions thereof, current at date of bidding documents, unless otherwise specified, govern the work. In conflict between cited standards and project specifications, do not proceed with any work until Engineer issues written clarification.

1.4 LICENSES, PERMITS, AND INSPECTIONS

A. Contractors shall secure all licenses and permits required for work on this project and shall arrange and pay for all inspections prescribed by applicable codes and ordinances. All such expenses incurred shall be included in the bid or proposal for work on this project.

1.5 PROJECT CLEAN-UP

- A. Upon completion of this project, contractors shall be required to:
 - 1. Remove manufacturer's stickers, tags, marking, and other temporary identification from all equipment and accessories.
 - 2. Thoroughly clean all fixtures and other equipment provided as part of this project.
 - 3. Remove all markings on equipment and building surfaces placed during construction by this contractor.
 - 4. Remove all waste, scrap, excess, and offal entirely from this project.

5. Provide any other clean-up service as required to present the best quality finished appearance a new project deserves.

1.6 SUBMITTALS

- A. Product data and Shop drawings: Submit as per Section 01 33 23.
- B. Substitutions: Manufacturers not named, or specified herein may be considered for use on this Project, upon request in writing to the Architect/Engineer, at least ten (10) days prior to the receipt of bids. Manufacturers not specifically named, or specified by Addenda, will not be considered for use on this Project. Also refer to Section 01 33 23.

1.7 WORK INCLUDES

A. Modify, remove, and / or reinstall existing exhaust fans, roof hoods, combustion vent piping as required and install new insulated curbs and boots as required.

1.8 ELECTRICAL SERVICE CONNECTIONS BY OTHERS

A. All mechanical equipment as required.

1.9 RELATED WORK BY OTHERS

- A. Mechanical equipment and vent terminal flashing
- B. Electric connections other than low voltage temperature control work
- C. Thermostat wall boxes and low voltage wiring empty conduit terminated "open" above

ceilings

1.10 RELATED SECTIONS

- A. Specified elsewhere:
 - 1. Division 1 General
 - 2. 07 9200 Joint Sealers
 - 3. Division 26 Electrical

1.11 DELIVERY, STORAGE, AND HANDLING

- A. Materials shall be suitably packaged by manufacturer to prevent damage during shipment. Damaged materials will not be acceptable for use.
- B. Store materials on site in clean, dry storage area; when outside, elevated above grade and enclosed with durable watertight wrapping.

C. Handle all materials carefully to prevent damage. Minor scratches, marks, or blemishes to finish shall be repaired to satisfaction of Engineer.
END 23 05 00

1.1 SCOPE OF WORK

A. Work contemplated under this section consists of the demolition, removal, and relocation / reinstallation of existing electrical conduits, circuits, etc as indicated on the accompanying drawings and specified hereafter or as directed by the Architect.

1.2 SPECIAL INSTRUCTIONS, NOT CONTAINED HEREIN

A. The Electrical Contractor is referred to the "Procedural Documents" and "General Conditions" sections of this specification for any special instructions that may affect his bid or his work on this project.

1.3 APPLICABLE CODES AND ORDINANCES

A. All electrical work on this Project shall be in compliance with the requirements of the NFPA 70 – National Electrical Code 2011. The Electrical Contractor shall be responsible for familiarizing himself with all such requirements applicable to electrical work on this Project.

1.4 REFERENCES

A. Cited references, or specified portions thereof, current at the date of bidding documents, unless otherwise specified, govern the work. In conflict between cited standards and project specifications, do not proceed with any work until Architect issues written clarification.

1.5 LICENSES, PERMITS, AND INSPECTIONS

- A. See the "General Conditions" section of this specification.
- B. The Electrical Contractor shall secure all licenses and permits required for work on this Project and shall arrange for all inspections required by all codes and/or ordinances. All such fees or charges for licenses, permits, and inspections shall be paid for by the Electrical Contractor and shall be included in his bid.

1.6 PROJECT CLEAN-UP

- A. Upon completion of this Project, this Contractor shall be required to:
 - 1. Remove manufacturer's stickers, tags, marking, and other temporary identification from all equipment and accessories.

- 2. Thoroughly clean all lighting fixtures, and other equipment provided by this contractor.
- 3. Remove all markings on equipment and building surfaces placed during construction by this Contractor.
- 4. Remove all waste, scrap, excess, and offal entirely from this project.
- 5. Provide any other clean-up services as required to present the best-quality finished appearance a new Project deserves.

1.7 WORK INCLUDES

A. Removal and relocation / reinstallation of existing electrical circuits, etc., as required.

1.8 SYSTEM DESCRIPTION

- A. Basic materials include:
 - 1. Wire and cables.
 - 2. Hangers, supports, anchors and fasteners.
 - 3. Conduit, raceways, and fittings.
- B. Provide all new materials, without blemish or defect, in accord with standards specified and labeled by a Nationally Recognized Testing Laboratory (NRTL).

1.9 DELIVERY, STORAGE, AND HANDLING

- A. See the "General Conditions" section of this specification, paragraph #17.
- B. Materials shall be suitably packaged by manufacturer to prevent damage during shipment. Damaged materials will not be acceptable for use.
- C. Store materials on site in clean, dry storage area; when outside, elevated above grade and enclosed with durable watertight wrapping.
- D. Handle all materials carefully to prevent damage. Minor scratches, marks, or blemishes to finish shall be repaired to satisfaction of Architect.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Standard manufactures to match existing "in-kind."

2.2 MATERIALS

B. Standard materials to match existing "in-kind."

PART 3 EXECUTION

3.1 INSTALLATION

- A. Coordinate work schedules and procedures with Owner or Owner's representative.
- B. Cooperate with other Contractors working on Project.
- C. Coordinate work with other Contractors regarding location and size of pipes, raceways, ducts, openings, switches, and outlets.
- D. Install all equipment with ample space allowed for removal, repair, or changes to equipment.
- E. Where cutting or drilling is required to facilitate raceway penetrations, patch and repair surfaces to their original state. Do not cut or drill structural members without prior written approval of Architect.
- F. Layout holes in advance. Notify Architect prior to drilling through structural sections, for determination of proper layout.
- G. Make roof seals watertight. Use PVC sleeves in walls and floors for precast holes, or core drill walls and floors as approved by Architect for installation of conduit. Caulk and seal annular space around conduit as specified herein.
- H. At Project completion, clean all equipment to the original finish. Remove all shipping labels.

END 26 05 26