A PROJECT OF THE PEORIA PARK DISTRICT

AVIARY CURTAIN WALL REPLACEMENT PEORIA ZOO 2320 PROSPECT ROAD PEORIA, ILLINOIS

PEORIA PARK DISTRICT PEORIA, ILLINOIS



PROJECT 17-031

AUGUST 22, 2017

PROJECT MANUAL

PACKAGE #____

PROJECT MANUAL INCLUDING SPECIFICATIONS FOR:

AVIARY CURTAIN WALL REPLACEMENT PEORIA ZOO PEORIA, ILLINOIS

ARCHITECT: APACE DESIGN ARCHITECTS + ENGINEERS

ATTN: BEN KAUFFMAN 2122 WAR MEMORIAL DRIVE PEORIA, ILLINOIS 61614 TELEPHONE: (309) 685-4722

OWNER: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA,

PEORIA, ILLINOIS

TRUSTEES: TIMOTHY J. CASSIDY, PRESIDENT

ROBERT L. JOHNSON, SR. JACQUELINE J. PETTY WARREN E. RAYFORD MATTHEW P. RYAN NANCY L. SNOWDEN JOYCE A. HARANT

PROJECT MANAGER: MARY HARDEN

PLANNING, DESIGN & CONSTRUCTION DIVISION

BRADLEY PARK EQUIPMENT SERVICE

1314 N. PARK ROAD PEORIA, ILLINOIS 61604 TELEPHONE: (309) 686-3386

ADMINISTRATIVE STAFF: EMILY CAHILL, EXECUTIVE DIRECTOR

BRENT WHEELER, DEPUTY DIRECTOR

MATT FREEMAN, SUPERINTENDENT OF PARKS JANET BUDZYNSKI, SUPERINTENDENT OF FINANCE

AND ADMINISTRATIVE SERVICES

BECKY FREDRICKSON, SUPERINTENDENT OF PLANNING,

DESIGN AND CONSTRUCTION

SHALESSE PIE, SUPERINTENDENT OF HUMAN

RESOURCES

Address all communications regarding this work to the Project Manager listed above.

ADVERTISEMENT FOR BIDS

Sealed bids will be received by the Peoria Park District, Peoria, Illinois, hereinafter known as the Owner, for the following project:

AVIARY CURTAIN WALL REPLACEMENT PEORIA ZOO

It is the intent of the Owner to receive Base Bids & Alternates for the project listed above.

Sealed bids will be received until Tuesday, September 12, 2017 at 3:00 PM prevailing time, by the Owner, at the Peoria Park District Administrative Office, 1125 W. Lake Ave., Peoria, Illinois 61614. (The Board Room clock shall be the official time keeping device in respect to the bid submission deadline.)

An electronic file including Bid Documents is available at www.peoriaparks-planning.org at no charge. Bid Documents, including Plans, Specifications and Interpretations for this project may be obtained at the Planning, Design & Construction Department, Bradley Park Equipment Service, 1314 N. Park Road, Peoria, IL 61604. Telephone (309) 686-3386. A non-refundable plan deposit of Twenty-Five dollars (\$25.00) will be charged for each printed set of Bid Documents.

A list of planholders can be obtained upon request. This information will be available up to twenty-four (24) hours prior to the scheduled bid opening time. **After that deadline, no information pertaining to the project will be given.**

A 10% Bid Bond is required, and is to be included with the Bid Proposal. The successful Bidder will be required to furnish a 100% Performance Bond and a 100% Labor and Materials Payment Bond within ten (10) days of formal Award of Contract.

The general prevailing rate of wage for the Peoria area shall be paid for each craft or type of worker needed to execute this contract or perform this work as required by the State of Illinois Department of Labor. Additionally, it is required that provisions of the Illinois Preference Act, the Illinois Drug Free Workplace Act, and the Substance Abuse Prevention on Public Works Act must be adhered to. Bidders are also advised that contract documents for this project include the non-discrimination, equal opportunity and affirmative action provisions in the Human Rights Act and rules and regulations of the Department of Human Rights. The Peoria Park District is an AA/EEO organization and encourages participation by minority and female-owned firms.

The Peoria Park District reserves the right to reject any or all bids, waive technical deficiencies, informalities or irregularities or rebid any project.

PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, ILLINOIS

BY: TIMOTHY J. CASSIDY, President

BY: V. JOYCE MCLEMORE, Secretary

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SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

1. INSTRUCTIONS TO BIDDERS

- A. "Instructions to Bidders", AIA Document A701, 1997 Editions, published by the American Institute of Architects, including revisions adopted before date of this Project Manual, is hereby made part of these specifications with same force and effect as though set forth in full
- **B.** The following modifies, changes, deletes from or adds to the **Instructions to Bidders** (AIA Document A701, 1997 Edition). Where any Article of the Instructions to Bidders is modified or any Paragraph, Subparagraph or Clause thereof is modified or deleted by these Supplementary Conditions, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.
- C. Parenthesis () indicates the appropriate section and Subparagraph of the Instructions to Bidders which each paragraph of the Supplementary Instructions to Bidders modifies or refers to.

2. PROJECT DESCRIPTION

A. The Project description generally is as follows:

1. BASE BID:

Project base bid is to remove and replace existing glass curtain wall, includes, but not limited to, demolition, asbestos abatement, lead hazard control, masonry maintenance, metal fabrication, aluminum curtain wall, glazing and painting.

2. ALTERNATES:

Alternate 1: Abatement of existing adjacent ACM panels and replace with spandrel glazing panels.

B. PRE-BID MEETING:

1. A pre-bid meeting will be held at 1:30 pm on Wednesday, August 30, 2017. Please meet at the Zoo's main entrance.

4. CODES AND PERMITS

- A. COSTS ASSOCIATED WITH REGULATORY COMPLIANCE. All Work performed in connection with this Project shall be in compliance with the requirements of all applicable local, state, and federal laws, regulations, and rules, as well as the requirements of the Construction Documents. The Bid Price shall reflect all costs of compliance to those requirements, whether or not specifically stated in the Construction Documents or specific sections of the Project Manual.
- **B. PERMITS/FEES.** Work shall not commence until all required building (and/or other) permits have been secured by the Contractor and copies of these permits submitted to the Owner's Representative. Cost of permits is to be included in the Bid Price.

5. BID GUARANTY

The bid must be accompanied by a Bid Guaranty which shall not be less than 10% of the amount of the Bid. At the option of the Bidder, the 10% Guaranty may be a Certified Check, Cashier's Check, or a Bid Bond. The Bid Bond shall be secured by a Guaranty or a Surety Company acceptable to the Owner. No bid will be considered unless it is accompanied by the required Guaranty. Funds must be made payable to the order of the Owner. Cash deposits will not be accepted. The Bid Guaranty shall ensure the execution of the Agreement and the furnishing of the Surety Bond or Bonds by the successful Bidder, all as required by the Contract Documents.

6. AWARD OF CONTRACT/REJECTION OF BIDS:

The Contracts will be awarded on the basis of Paragraph 5.3 of the Instructions to Bidders. The Bidders to whom the awards are made will be notified at the earliest possible date. The Owner, however, reserves the right to reject any and all Bids, to accept any combination of base bids and alternates and to waive any technical deficiencies, informalities, or irregularities in Bids received whenever such rejection or waiver is in its interest.

No bid shall be withdrawn for a period of sixty (60) days after the opening of bids without the consent of the Owner. The failure of the Bidder to submit a Bid Bond, Certified Check or Cashier's Check in the full amount to cover all proposals bid upon shall be sufficient cause for rejection of his bid. The award will be made contingent upon submittal and evaluation of Contractor's Qualification Statement, Bonds, Certificate of Insurance, Contractor Certification(s), including Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors, etc.

7. EXECUTION OF AGREEMENT:

Subsequent to the award and within ten (10) days after the prescribed forms are prepared and presented for signature by the Owner's Representative, the successful Bidder shall execute and return to the Owner's Representative an Agreement in the form included in the Contract Documents in such number of copies as the Owner may require. The President of the Board of Trustees will complete execution of Agreement after all bonds and any other required documents have been received by the Park District. One fully executed copy of Agreement will then be returned to Contractor.

8. PERFORMANCE BOND/LABOR AND MATERIAL PAYMENT BOND & INSURANCE

A. BONDS REQUIRED. Having satisfied all conditions of award as set forth elsewhere in these Documents, the successful Bidder shall, within ten (10) calendar days after award of contract, furnish Surety Bonds in penal sums, each not less than the amount of the Contract as awarded as security for the faithful performance of the Contract (Performance Bond), and for the payment (Labor and Materials

Payment Bond) of all persons, firms or corporations to whom the Contractor may become legally indebted for labor, materials, tools, equipment or services employed or used by him in performing the work.

- B. FORM OF BONDS. Such bonds shall be in the same form as the samples included in the Project Manual and shall bear the same date as or a date subsequent to that of the Agreement. The current Power of Attorney for the person who signs for any Surety Company shall be attached to such Bonds. Bonds shall be signed by a Guaranty or Surety Company acceptable to the Owner.
- C. COST OF PERFORMANCE BOND/LABOR AND MATERIAL PAYMENT BOND. All costs for the Performance Bond/Labor and Material Payment Bond shall be included in the submitted Bid Price.
- **D. INSURANCE.** Insurance requirements for this project are addressed both in the Supplementary General Conditions and in "Attachment A.6", in the "Exhibits" section of this Project Manual.
 - a) In respect to the property ("builders risk") insurance coverages referenced in the Supplementary General Conditions: the successful Bidder will be required to provide such coverages as the work of the Project will be accomplished by one general/prime contractor(s).
- E. TIME FRAMES. The successful Bidder shall, within ten (10) days after award of contract by the Board of Trustees, submit Proof of Insurance coverages/Bonds in the form and amounts required to the Owner's Representative. Should the Bidder be unable to provide the required Proof of Insurance(s)/Bonds within the specified ten day period the Owner reserves the right, at its sole discretion, to withdraw its award of contract from that Bidder.

9. DEFAULT

A. The failure of the successful Bidders to execute the Agreement, supply the required Bonds or proof of required insurance coverage(s) within (ten) 10 days after award of contract, or within such extended period as the Owner may grant based upon reasons determined sufficient by the Owner, may constitute a default. In such case, award of contract will be transferred to the second lowest bidder.

10. CONTRACTOR'S QUALIFICATION STATEMENT

A. Contractor's Qualification Statement (AIA Document 305) shall be submitted by low bidder for evaluation prior to award of contract <u>if</u> so requested by the Owner or his representatives.

11. LIST OF SUBCONTRACTORS/PRODUCT & EQUIPMENT SUBSTITUTIONS

- **A.** Each Bidder shall submit a "MAJOR SUBCONTRACTORS LIST" proposed to be used in the execution of the Work. If there will be no subcontractors, the Bidder shall state "No Subcontractors" on this form. The completed form is due with the Bid Proposal.
 - 1) Identify the trade name, address, telephone number, and category of work of each subcontractor.
 - 2) Failure to submit the "Major Subcontractors List" with the Bid Proposal may result in the rejection of the Bid.
 - 3) Delete Subparagraphs (6.3.1.1) and (6.3.1.2) from AIA A701.
- **B.** The Bidder, by submission of a signed bid form, agrees to install all products and equipment by brand name or names specified in the Technical Specifications sections of this Project Manual. "Or equal" substitutions will be allowed <u>only if approved in writing prior to</u> the bid opening and listed in the "Substitutions" section of the Bid Form.

12. CONTRACT ADMINISTRATION FORMS/COSTS OF FORMS

- **A. REQUIRED FORMS.** The following AIA forms will be used (AIA forms will be supplied by the Owner if requested, and charged to the Contractor at cost) in the administration of the project:
 - 1) AIA Document A310: "Bid Bond", February 1970 edition
 - 2) AIA Document A305: "Contractor's Qualification Statement", 1986 edition
 - 3) AIA Document G702: "Application and Certificate of Payment", May 1992 edition
 - 4) AIA Document G703: "Continuation Sheet", May 1992 edition
- **B. OTHER FORMS**. Other contract administration forms (to be provided by the Owner unless otherwise noted) required for use in the Project are:
 - 1) Major Subcontractors List
 - 2) Contractor's Affidavit
 - 3) Individual Contractor Form
 - 4) Corporate or Partnership Form
 - 5) Performance Bond
 - 6) Labor and Material Payment Bond
 - 7) Lien Waiver Forms

- 8) Weekly Workforce Report
- 9) Certified Payroll Form (Contractor may use own form)
- 10) Insurance Forms: As required in Attachment A (at end of Project Manual) (will not be provided by Owner)
- 11) Agreement Between Owner and Contractor

Examples of these forms are included in the Project Manual.

13. CONSTRUCTION TIME AND LIQUIDATED DAMAGES CLAUSE:

PROJECT COMPLETION. The Agreement will include the following paragraph(s) or language substantially the same, regarding construction time and liquidated damages:

- 1) LIQUIDATED DAMAGES: Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not Substantially Complete within the time specified below, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time.
- 2) Accordingly, instead of requiring any such proof, Owner and Contractor agree that as Liquidated Damages for delay (but not as a penalty) Contractor shall pay Owner TWO HUNDRED AND FIFTY DOLLARS (\$250.00) for each calendar day that expires after Two-Hundred and twelve (212) calendar days from Notice of Award until Substantial Completion is attained. The work is tentatively scheduled to begin on September 21, 2017 and be at Substantial Completion by April 20, 2018.
- 3) After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work necessary to achieve Final Completion within ten (10) calendar days or any proper extension thereof granted by Owner, Contractor shall pay Owner Two-Hundred Fifty dollars (\$250.00) for each day that expires after the time specified.
- 4) Owner and Contractor agree that the per day liquidated damage amounts set forth in subparagraphs "2" and "3" of this section constitute a reasonable forecast of the financial losses, actual costs and increased expenses the Owner may incur as a result of delayed Substantial or Final Completion of the Project.

14. PROJECT MANUAL/PLANS & SITE VISITATION

- **A.** A set of Bid Documents may be examined, at no charge, at the office of the Owner's Representative.
- B. PLAN DEPOSIT. An electronic file including Bid Documents is available at www.peoriaparks-planning.org at no charge. A printed set of Bid Documents, including Plans, Specifications and Interpretations for this project may be obtained at the Planning, Design & Construction Department, Bradley Park Equipment Service, 1314 N. Park Road, Peoria, IL 61604. Telephone (309)686-3386. A non-refundable plan deposit of Twenty-Five dollars (\$25.00) will be charged for each printed set of Bid Documents.
- C. FAMILIARITY WITH BID DOCUMENTS & SITE VISITATION. Bidders, by submission of their Bids, represent that they have visited the site to acquaint themselves with the local conditions in which the Work is to occur, and that they are familiar with all the requirements of the Project, as defined in the Project Manual and the Plan(s).

15. OTHER MODIFICATIONS TO AIA-701/OTHER CONDITIONS

- A. Add the following sentence to (4.1.7): "Bidder shall submit two (2) completed copies of Bid Form and retain one (1) copy for his files."
- **B.** Delete Section (6.2) "Owner's Financial Capability"; and last sentence of Paragraph (4.2.1.)
- C. In reference to (7.2.1), the Peoria Park District reserves the right of final approval of bonding companies.
- **D.** Delete paragraph (7.1.3).

16. EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION/SEXUAL HARASSMENT

- A. The "Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors Form" and "Workforce Profile" and "Sexual Harassment Policy" shall be filled out and returned with the Bid. Failure to submit a completed "Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors Form" and "Workforce Profile" and "Sexual Harassment Policy" may result in rejection of the bid.
- **B.** Effective July 1, 1993, every party to a public contract and every party bidding on public contracts is required to have a written "Sexual Harassment Policy" that contains:
 - 1) A definition of sexual harassment under state law;
 - 2) A description of sexual harassment utilizing examples;
 - 3) A formalized complaint procedure;
 - A statement of victim's rights;

- 5) Directions on how to contact the Illinois Department of Human Rights Illinois companies. Out-of-State companies must include directions on how to contact the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency.
- 6) A recitation that there cannot be any retaliation against employees who elect to file charges.

Recommendation: Your "Sexual Harassment Policy" should be drafted in language easy to understand and any revisions should be reviewed by legal counsel. A copy of your policy should be posted in a prominent and accessible location to assure all employees will be notified of the company's position.

In order to conduct business with the Peoria Park District, you must have a written "Sexual Harassment Policy" that conforms to the new Act.

FAILURE TO DO SO WILL DISQUALIFY YOU AS AN ELIGIBLE VENDOR.

C. Lowest responsible bidder not meeting the Park District's goal of 12% for minority/women participation, must provide proof of efforts made in contacting an adequate number of minority and women owned firms and/or labor.

17. BID SUBMISSION

- A. DATE, TIME & PLACE OF RECEIVING BIDS. Bids will be received until the date and time listed in the "Advertisement for Bids", at which time they will be publicly opened, read aloud and recorded. The Bid Opening will be held at the place listed in the "Advertisement for Bids".
- **B. REQUIRED ITEMS**. The following items <u>must be included</u> as part of the "BID":
 - 1) Two (2) signed copies of the **BID FORM**. (Retain the third copy for your files.)
 - 2) The PEORIA PARK DISTRICT CERTIFICATE OF EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE FOR CONTRACTORS AND VENDORS FORM and SEXUAL HARASSMENT POLICY.
 - 3) The WORKFORCE PROFILE.
 - 4) The ILLINOIS DRUG FREE WORKPLACE CERTIFICATION.
 - 5) The **CONTRACTOR CERTIFICATION** (individual or corporate/partnership).
 - 6) The LIST OF SUBCONTRACTORS. (Submit form and state "No Subcontractors" on the form, if none will be used.)
 - 7) The **BID GUARANTY**.
 - 8) The CERTIFICATION OF SAFETY COMPLIANCE.
 - 9) SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION
- **C. BID SUBMISSION**. The "BID" shall be enclosed in envelopes (outer and inner), both of which shall be sealed and clearly labeled with the following information, in order to prevent premature opening of the bid:

"PROPOSAL"
NAME OF PROJECT
NAME OF BIDDER
DATE/TIME OF BID OPENING

END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Bid From:			PROJECT NO. 14-037 BID FOR: AVIARY CURTAIN WALL			
REP	REPLACEMENT		LOCATION: PEORIA ZOO			
			BID FORM			
			BID TO: PEORIA PARK DISTRICT			
UNI	DERSI(IGNED:				
1.	Ack	enowledges receipt of:				
	A.	Project Manual and Drawings for:				
	В.	Addenda: No through No				
2.	him		hall be responsible for performing work specifically required of ecifications for entire project, even though such work may be divisions or sections.			
3.	And	d agrees to enter into and execute Contract with	Owner, if awarded on basis of this bid, and to:			
	A.	Furnish Bonds and Insurance required by the	e Bidding & Contract Documents.			
	B.	Accomplish work in accord with Contract.				
	C.	Complete work within specified Contract tin	ne.			
4.		NTRACT TIME: Contractor agrees to Substacuments per the Supplementary General Condition	ntially Complete ALL WORK as required by the Contract ons and Supplementary Instructions to Bidders.			
5.	BAS A.	SE BIDS: Base Bid: Bidder agrees to perform all building and sit sum of:	e work, as set forth in the Project Manual and Drawings for the			
			Dollars (\$			
6.	Bi ac hc M	A. Add Alternate #1: Abatement of existing panels.	work items as set forth below. The prices submitted may be or up to no later than ninety (90) days after award of the Bid; I of the Base Bid, the contract times as set forth in the Project issate for the additional time taken in award of the Alternate: g adjacent ACM panels and replace with spandrel glazing			
			υ			

Bid From:REPLACEMENT		PROJECT NO. 14-037 BID FOR: AVIARY CURTAIN WALL LOCATION: PEORIA ZOO			
7.	PROPOSED SUBSTITUTION LIST: Base Bid(s) and Alternates are understood to include specified in the Bid Documents. The following is a construction which the Bidder proposes to furnish or from Base Bid(s).	list of substitute prod	lucts, equipment of	or methods of	
	Bidder understands that acceptance of any proposed product brand, item, or element specified prior to bid substitutions listed below will be indicated before ex	l opening is at Owne			
	<u>ITEM</u>		<u>ADD</u>	<u>DEDUCT</u>	
			\$	\$	
			\$	\$	
			\$	\$	
8.	BIDDERS CHECKLIST:				
	Did you visit the site?		Yes	No	
	Is Bid Security enclosed? (If applicable)		Yes	No	
	Is Peoria Park District Certificate of Equal Employm Opportunity Compliance for Contractors and Vendo Sexual Harassment Policy enclosed?		Yes	No	
	Is Workforce Profile enclosed?		Yes	No	
	Is List of Subcontractors enclosed?		Yes	No	
	Is Contractor Certification enclosed?		Yes	No	

Is Ill. Drug Free Workplace Certification enclosed?

Is Substance Abuse Prevention Program Certification enclosed?

Is Certificate of Safety Compliance enclosed?

No

No

No

Yes

Yes

Yes

Bid From:		PROJECT NO. 14-037 BID FOR: AVIARY CURTAIN WALI				
REPL	ACEMENT		AVIARY CURTAIN WALL N: PEORIA ZOO			
8.	BIDDER INFORMATION:					
	NAME OF BIDDER:					
	ADDRESS:					
	CITY, STATE, ZIP:					
	TELEPHONE NO.:					
	BY:(Signature of Authorized	l Official)				
	TITLE:					
DIDE	NEDIG GEAL					
BIDE	DER'S SEAL					
WITN	NESS:					

END OF BID FORM



Peoria Park District

Certificate of Equal Employment Opportunity Compliance for

Contractors and Vendors

Disclosure of the information requested in this form is required by the Peoria Park District. Failure to properly complete and sign this form will result in it being returned unprocessed thereby resulting in a delay or denial of eligibility to bid.

As part of the Company's commitment to equal employment opportunity practices, this company does the following:

- Recruits, trains, upgrades, promotes and disciplines persons without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- Notifies all recruitment sources that all qualified applicants will be considered for employment without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- When advertising is used, specifies that all qualified applicants will be considered for employment without regard to race, color, sex, religion, national origin, veteran status, age, mental or physical ability.
- Notifies all labor organizations which furnish this company with any skilled or non-skilled labor of the Company's responsibility to comply with the equal employment opportunity requirements required in all contracts by the Peoria Park District.
- Notifies all of its sub-contractors of their obligation to comply with the equal employment opportunity requirements required in all contracts by the Peoria Park District.
- Has an affirmative action program that assures the company's fair employment practices are understood and

carried out by all of its managerial, administrative and s	upervisory personnel.
Is the Company a minority/woman owned business (MBE/WBE))?NOYES, if yesMBE orWBE?
The Company does not discriminate against any employees or apsex, national origin, veteran status, age, mental or physical ability	
The Company does not maintain segregated facilities for any of i origin, because of habit, local custom, or otherwise.	its employees on the basis of race, religion, color, national
The Company has a written sexual harassment policy meeting the	e Illinois Department of Human Rights requirements.
By signing this form, the Company attests that it complies with a commitment to equal employment opportunity practices. The Coworkforce Profile Sheet truthfully, to the best of its knowledge.	
Company Name	Company Address
Signature of Company Official	Name / Title
Telephone Number & Fax Number	Email Address

Rev. 6/2012

WORKFORCE PROFILE

Job Classifications		ack oyees		nite oyees		oanic oyees		American loyees		sian loyees		her oyees		ΓAL OYEES
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1. Officials, Managers, Supervisors														
2. Professionals														
3. Technicians														
4. Sales														
5. Office/Clerical														
6. White Collar Trainees:														
7. Skilled Crafts:														
8. Apprentices:														
9. On-the-job Trainees:														
10. Semi-skilled														
11 Comics Workson														
11. Service Workers														
12. Unskilled														
TOTALS														

COMPANY NAME:	
05/2017	

WORKFORCE PROFILE INSTRUCTIONS

RACE/ETHNIC IDENTIFICATION

WHITE (not of Hispanic origin): All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

BLACK (not of Hispanic origin): All persons having origins in any of the Black racial groups of Africa.

<u>HISPANIC</u>: All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

ASIAN or PACIFIC ISLANDER: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa

<u>NATIVE AMERICAN or ALASKAN NATIVE</u>: All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

DESCRIPTION OF JOB CLASSIFICATIONS

OFFICIALS, MANAGERS, AND SUPERVISORS - Occupations requiring administrative personnel who set broad policies, and exercise over-all responsibility for the execution of these policies, and direct individual departments or special phases of a firm's operations. Includes: officials, executives, middle management, plant managers, department managers/superintendents, salaried foremen who are members of management, purchasing agents and buyers, and kindred workers.

<u>PROFESSIONALS</u> - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants/auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, personnel and labor relations workers, physical scientists, physicians, social scientists, teachers, and kindred workers.

<u>TECHNICIANS</u> - Occupations requiring combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes: drafters, engineering aids, junior engineers, scientific assistants, surveyors, technical illustrators, technicians (medical, dental, electronic physical sciences), and kindred workers.

<u>SALES WORKERS</u> - Occupations engaging wholly or primarily in direct selling. Includes: advertising agents/salespersons, insurance agents/brokers, real estate agents/brokers, stock and bond salespersons, demonstrators, salespersons and sales clerks, and kindred workers

OFFICE AND CLERICAL WORKERS - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly non-manual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, cashiers, collectors (bills and accounts), messengers and office couriers, office machine operators, shipping and receiving clerks, stenographers, typist and secretaries, telegraph and telephone operators, and kindred workers.

<u>WHITE COLLAR TRAINEES</u> - Persons engaged in formal training for official, managerial, professional, technical, sales, office and clerical occupations.

<u>SKILLED CRAFTS</u> - Manual worker of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: the building trades hourly paid foremen and leadmen who are not members of management, mechanics and repairmen, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, and kindred workers.

<u>APPRENTICES</u> - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with a Federal or State agency.

<u>ON-THE-JOB TRAINEES</u> - Persons engaged in formal training for craftsmen when not trained under apprentice programs; semi-skilled, unskilled and service occupations.

<u>SEMI-SKILLED WORKERS</u> - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

<u>SERVICE WORKERS</u> - Workers in both protective and non-protective service occupations. Includes: attendants (hospital and other institution, professional and personal service), barbers, charwomen and cleaners, cooks (except household), counter and fountain workers, elevator operators, fire fighters, guards, watchmen and doorkeepers, stewards, janitors, police officers and detectives, porters, waiters and waitresses, and kindred workers.

<u>UNSKILLED WORKERS</u> - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require the application of little or no independent judgement. Includes: garage laborers, car washers and greasers, gardeners (except farm) and groundskeepers, longshoremen and stevedores, lumbermen, craftsmen and wood choppers, laborers performing lifting, digging, mixing loading and pulling operations, and kindred workers.

PLEASE BE ADVISED!

Every party to a public contract and every party bidding on public contracts are required to have a written sexual harassment policy that contains:

- (1) a definition of sexual harassment under state law:
- (2) a description of sexual harassment utilizing examples;
- (3) a formalized complaint procedure;
- (4) a statement of victims rights;
- (5) directions on how to contact the Illinois Department of Human Rights **Illinois companies.**Out-of-State companies must include directions on how to contact the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency.
- (6) a recitation that there cannot be any retaliation against employees who elect to file charges.

Recommendation: Your sexual harassment policy should be drafted in language easy to understand and any revisions should be reviewed by legal counsel. A copy of your policy should be posted in a prominent and accessible location to assure all employees will be notified of the company's position.

<u>In order to conduct business with the PEORIA PARK DISTRICT, you must have a written sexual harassment policy that conforms to the new ACT.</u>

FAILURE TO DO SO WILL DISQUALIFY YOU AS AN ELIGIBLE VENDOR!!!

Please be advised, effective July 1, 1993, Governor Jim Edgar established under Executive Order Number 7 (Public Act 87-1257) that every party to a public contract and every party bidding on a public contract within the State of Illinois must have a written policy statement prohibiting sexual harassment. The following model policy statement is a draft copy provided for use in formulating your company's policy statement

SEXUAL HARASSMENT POLICY STATEMENT

It is the responsibility of each individual employee to refrain from sexual harassment and it is the right of each individual employee to work in an environment free from sexual harassment.

DEFINITION OF SEXUAL HARASSMENT

According to the Illinois Human Rights Act, sexual harassment is defined as:

Any unwelcome sexual advances or requests for sexual favors or any conduct of a sexual nature when

- submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
- 2. submission to or rejection of such conduct by an individual is used as the basis for employment decision(s) affecting such individual; or
- 3. such conduct has the purpose or effect of substantially interfering with an individual's work performance or creating an intimidating, hostile, or offensive working environment.

The courts have determined that sexual harassment is a form of discrimination under Title VII of the U.S. Civil Rights act of 1964, as amended in 1991. One such example is a case where a qualified individual is denied employment opportunities and benefits that are, instead, awarded to an individual who submits (voluntarily or under coercion) to sexual advances or sexual favors. Another example is where an individual must submit to unwelcome sexual conduct in order to receive an employment opportunity.

Other conduct commonly considered to be sexual harassment includes:

- Verbal: Sexual innuendoes, suggestive comments, insults, humor and jokes about sex, anatomy or gender-specific traits, sexual propositions, threats, repeated requests for dates, or statement about other employees, even outside of their presence, of a sexual nature.
- Non-Verbal: Suggestive or insulting sounds (whistling), leering, obscene gestures, sexually suggestive bodily gestures, "catcalls", "smacking" or "kissing" noises.
- ⇒ Visual: Posters, signs, pin-ups, slogans of a sexual nature.
- ⇒ Physical: Touching, unwelcome hugging or kissing, pinching, brushing the body, coerced sexual intercourse or actual assault.

Sexual harassment most frequently involves a man harassing a woman. However, it can also involve a woman harassing a man or harassment between members of the same gender.

The most severe and overt forms of sexual harassment are easier to determine; however, some sexual harassment is more subtle and depends to some extent on individual perception and interpretation. The trend in the courts is to assess sexual harassment by a standard of what would offend a "reasonable woman" or a "reasonable man", depending upon the gender of the alleged victim.

An example of the most subtle form of sexual harassment is the use of endearments. The use of terms such as "honey", "darling", and "sweetheart" is objectionable to many women who believe that these terms undermine their authority and their ability to deal with men on an equal and professional level.

Another example is the use of a compliment that could potentially be interpreted as sexual in nature. Below are three statements that might be made about the appearance of a woman in the workplace:

Sexual Harassment Model Policy Statement Page 2

- ⇒ "That's an attractive dress you have on."
- ⇒ "That's an attractive dress. It really looks good on you."

⇒ "That's an attractive dress. You really fill it out well."

The first statement appears to be simply a compliment. The last is most likely to be perceived as sexual harassment depending on individual perceptions and values. To avoid the possibility of offending an employee, it is best to follow a course of conduct above reproach, or to err on the side of caution.

RESPONSIBILITY OF INDIVIDUAL EMPLOYEES

Each individual employee has the responsibility to refrain from sexual harassment in the workplace. An individual employee who harasses a fellow worker is, of course, liable for his or her individual conduct. The harassing employee will be subject to disciplinary action up to and including discharge in accordance with company/organization policy or a collective bargaining agreement, as appropriate.

RESPONSIBILITY OF SUPERVISORY PERSONNEL

Each supervisor is responsible for maintaining a workplace free of sexual harassment. This is accomplished by promoting a professional environment and by dealing with sexual harassment as with all other forms of employee misconduct.

The courts have found companies/organizations as well as supervisors can be held liable for damages related to sexual harassment by a manager, supervisor, employee, or third party (an individual who is not an employee but does business with a company/organization, such as a contractor, customer, sales representative, or repair person).

Liability is based either on a company's/organization's responsibility to maintain a certain level of order and discipline, or on the supervisor acting as an agent of the company/organization. As such, supervisors must act quickly and responsibly, not only to minimize their own liability, but also that of the company/organization.

RESOLUTION OUTSIDE THE COMPANY/ORGANIZATION

It is hoped that most sexual harassment complaints and incidents can be resolved within a company/organization. However, an employee has the right to contact the Illinois Department of Human Rights (IDHR) or the U.S. Equal Employment Opportunity Commission (EEOC) about filing a formal complaint. An IDHR complaint must be filed within 180 days of the alleged incident(s) unless it is a continuing offense. A complaint with EEOC must be filed within 300 days.

Illinois Department of Human Rights

(217) 785-5100 - Springfield

(217) 785-5125 – TDD Springfield

(312) 814-6200 - Chicago

(312) 263-1579 - TDD Chicago

Illindis Human Rights Commission

(217) 785-4350 - Springfield (217) 785-5125 - TDD Springfield

(312) 814-6269 – Chicago

(312) 814-4760 - TDD Chicago

U.S. Equal Employment Opportunity Commission

(312) 353-2613 – Chicago District Office

(800) 669-4000 - Toll Free Within State of Illinois

(800) 669-6820 - TDD Chicago

An employee who is suddenly transferred to a lower paying job or passed for promotion, after filing a complaint with IDHR or EEOC, may file a retaliation charge, also due 180 days (IDHR) or 300 days (EEOC) from the alleged retaliation.

An employee who has been physically harassed or threatened while on the job may also have grounds for criminal charges of assault and battery.

FALSE AND FRIVOLOUS COMPLAINTS

False and frivolous charges refer to cases where the accuser is using a sexual complaint to accomplish some end other than stopping sexual harassment. It does not refer to charges made in good faith which cannot be proven. Given the seriousness of the consequences for the accused, a false and frivolous charge is a severe offense that can itself result in disciplinary action.



ILLINOIS DRUG FREE WORKPLACE CERTIFICATION

The undersigne Act of 1991.	d Contractor/Vendor hereby of	ertifies that it will comply with all provisions of the Illinois Drug Free Work	:pla
Dated this	day of		
		Contractor/Vendor	
		By:	



SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION

Project Name:	
Location:	
The Substance Abuse Prevention on Public Works Act Public Act 95-0635, prohibits the use of drugs and alcohol, as de the Act, by employees of the Contractor and by employees of all approved Subcontractors while performing work on a p works project. The Contractor/Subcontractor herewith certifies that it has a superseding collective bargaining agreement the public filing of its written substance abuse prevention program for the prevention of substance abuse among its empl who are not covered by a collective bargaining agreement dealing with the subject as mandated by the Act.	oublic t or makes
A. The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has signed collective bargaining agreements that are in effect for all of its employees, and that deal with the subject matter of Public Act 95-06.	
Contractor/Subcontractor	
Name of Authorized Representative (type or print)	
Title of Authorized Representative (type or print)	
Signature of Authorized RepresentativeDate	
B.The undersigned representative of the Contractor/Subcontractor certifies that the contracting entity has in place, for all employees not covered by a collective bargaining agreement that deals with the subject of the Act, the attached substance prevention program that meets or exceeds the requirements of Public Act 95-0635.	
Contractor/Subcontractor	
Name of Authorized Representative (type or print)	
Title of Authorized Representative (type or print)	
Signature of Authorized Representative Date	



CERTIFICATION OF SAFETY COMPLIANCE

The undersigned Contractor/Vendor hereby certify that they and their sub-contractors will comply with any and all prevailing occupational safety and health standards including, but not limited to the following: hazard communication, hearing conservation, respirator use, permit required confined space entry, scaffolding, personal protective equipment, ladder usage, ventilation, flammable and combustible liquids handling and storage and lockout/tagout. Such compliance may include a training component or require a written program of compliance.

Dated this day of	, 20
CONTRACTOR/VENDOR:	
P _W	

PLEASURE DRIVEWAY AND PARK DISTRICT

OF PEORIA, ILLINOIS

Individual Contractor Form

CONTRACTOR CERTIFICATION

I,	_, do hereby certify that I am a contractor who has not been barred from n of either Section 33E-3 (bid-rigging) or Section 33E-4(bid rotating) of the
Illinois Criminal Code, Illinois Compiled Statutes 7	20 ILCS 5/33E-3 and 5/33E-4.
Contractor	
By:	
Subscribed and Sworn before me this day	of , 20
	
Notary Public	
- · · · · · · · · · · · · · · · · · · ·	
My Commission Expires	, 20

PLEASURE DRIVEWAY AND PARK DISTRICT

OF PEORIA, ILLINOIS

Corporate or Partnership Contractor Form

CONTRACTOR CERTIFICATION

I,	, a duly authorized agent of
I,(Agent)	
(Contractor)	, do hereby certify that neither
(Contractor)	, nor any individual presently
affiliated with(Contractor)	, has been barred from
bidding on a public contract as a result of a violation of either Section 3: Illinois Criminal Code, Illinois Compiled Statutes, 720 ILCS 5/33E-3 ar	
Contractor	
By:	
Subscribed and Sworn before me this day of	, 20
Notary Public	
My Commission Expires, 20	

MAJOR SUBCONTRACTORS LIST

The following tabulation of Major Subcontractors shall be attached and made a condition of the Bid. The Bidder expressly understands and agrees to the following provisions:

- A. If awarded a Contract as a result of this Bid, the major subcontractors used in the prosecution of the work will be those listed below.
- B. The following list includes all subcontractors who will perform work representing 5% (five percent) or more of the total Base Bid.
- C. The subcontractors listed below are financially responsible and are qualified to perform the work required.
- D. The subcontractors listed below comply with the requirements of the Contract Documents.
- E. Any substitutions in the subcontractors listed below shall be requested in writing by the Contractor and must be approved in writing by the Owner. No subsubcontractors will be allowed unless specifically stated on the form. All pertinent financial, performance, insurance and other applicable information shall be submitted with the request for substitution(s). Owner shall respond to such requests within 14 calendar days following the submission of all necessary information to the full satisfaction of the Owner.
- F. Failure to submit the list of Major Subcontractors as stated herein shall constitute a material variation from the Invitation to Bid; and any such Bid may be rejected by the Owner.

Subcontractor Name	Address	Telephone	Area of Work	Minority/Women Owned Business (Yes/No)

(Attach additional sheets if required)

END OF MAJOR SUBCONTRACTORS FORM

Compiled with Information from City of Peoria Equal Opportunity Office Peoria Housing Authority Peoria Park District

04/2017

	*	
Absolute Risk Management Strategies Kelly Peterson	MBE Construction Safety, Job Site Safety Plan Development, Job Site Risk Assessment, Construction OSHA Training 416 Main St., Suite 533, Peoria, IL 61602	309-222-4050
Adams Septic & Sewer Services, Inc. Michelle Adams	WBE Septic and Sewer Contractor 1641 N. Tiber Ridge Ct., East Peoria, IL 61611	309-691-6113
AFE Construction, Inc. Tommy and Monica Arbuckle	WBE General Contractor WBE P.O. Box 199, Mackinaw, IL 61755	309-208-3092 tommy.AFEINC@hotmail.com
Alexander Brother Construction Allester Alexander	MBE Concrete, Demolition, Excavating, Landscaping Trucking	309-713-3010
	P.O. Box 1508 Peoria, IL 61605	abrosconst@aol.com
A & L Salvage, Inc. Archie Brown	MBE Clean Up, Tree Cutting & Removal, Truck Salvaging 824 W. Brons, Peoria, IL 61604	309-682-4412
A. Lucas & Sons Steel	WBE Structural Steel Fabrication	309-673-8547
Margaret Hanley	1328 SW Washington, Peoria, IL 61602	309-673-7213 Fax <u>Margaret@alucasiron.com</u>
Ambri Inc. Robert J. Hunt. Jr.	MBE Drywall, Flooring, Painting, Cabinetry 9101 S. Nashville Ave., Oak Lawn, IL 60453	708-634-6303 Ph/ Fax
Atherton, P.A. Patricia Atherton	WBE Asphalt, Concrete, Demolition, Excavation 57 Eichorn Road, Spring Bay, IL 61611	309-822-8575 309-822-8782 Fax
A Unique Maintenance Service Andrea McKnight	MBE Commercial and Industrial Construction Cleanup 2101 N. North St., Peoria, IL 61604	309-685-7197 309-685-4472 Fax
BMI Contractors and Associates Sammy L Hobson	MBE Excavation, Environmental Services, Concrete 1123 MacQueen, Peoria, IL 61604 bmicontractorsandassociates@comcast.net	30-657-4469 309-713-1569
Braun Excavating, Inc. Teresa Braun	WBE Demolition, Digging of Footings, Excavation, Pipe Laying 24 Gulf Stream, Bartonville, IL 61607	309-697-5454 309-697-6567 Fax
Brown, Leo Trucking, Inc. Leo Brown	MBE Trucking/Hauling P. O. Box 9057, Peoria, IL 61612	309-685-6710 309-685-0759 Fax
Buddy's Landscaping Dexter Davis	MBE Landscaping P. O. Box 1836, Bloomington, IL 61702	309-824-9211 309-454-3342 Fax dexterdavis2@aol.com
Central IL Consulting Inc. Jessica Youngman	WBE Land Surveying 416 Germantown Rd., Germantown, IL 61548	309-383-3156 youngman@mtco.com
Central IL Rebar Insulators Roger Fleming	MBE Structural Steel and Rebar Replacement 4719 Ridgelawn, Peoria, IL 61615	309-258-1379 888-387-5716 Fax
Central Landscaping Donna Brandenburg	WBE Landscaping 12512 Mendell Rd., Princeville, IL 61559	309-385-4832 309-385-2644 Fax
CJL Landscaping, Inc. Rebecca J. Kelch	WBE Landscaping 10902 W. U. S. Highway 150, Brimfield, IL 61517	309-691-9200 309-691-5131 Fax meinders 81@yahoo.com
Clevenger Contractors Inc. Misty Bahman	WBE Guardrail, Bridge Rail, Seeding, Fencing 355 Naples Rd., P.O. Box 19, Bluffs, IL 62621 www.clevengercontractor.com	217-754-3411 217-754-3537 Fax clever@irtc.net

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CNS Forestry & Landscaping LLC Christine Schilling	WBE Landscaping, Seeding, Sodding, Tree Removal 1813 1000 th St., Lincoln, IL 62656	217-792-3808 217-792-3808 Fax
Cordova Construction Tina Christopher	WBE Concrete Removal, Curb & Gutter Removal, Sidewalk Removal 2424 N. Ellory Road, Peoria, IL 61615	309-674-8810
Cornerstone Builders & Developers Ron Touilly	WBE 6129 W. Southport Rd., Peoria, IL 61615 www.cornerstonebd.com	309-674-9000 309-673-7783 Fax info@cornerstonebd.com
Creative Touch Painting Chris Ridge	MBE Painting Exterior/Interior 3318 N. Isabell Ave., Peoria, IL 61604	309-229-1253 309-643-7400(cell) info@creativetouchpnt.com
CSS (Construction Specialties & Services) Dave Suzuki	MBE Building Specialties, Design, Engineering, Estimating P. O. Box 120703 Peoria, IL 61614	309-685-8453 <u>sai@sai-x.com</u>
CWG Incorporated Teresa E. Gustafson	WBE Demolition, Excavation, Trucking 24635 Cooper Rd., Morton, IL 61550	309-208-5461 (cell) 309-208-8899 (cell) tgusdesigns@yahoo.com
Davis Brothers Construction Company Russell Davis	MBE Trucking/Hauling 1522 W. Kettelle St. Peoria, IL 61605	309-683-6931
DECA Realty Eddie J. Washington	MBE Real Estate Broker, Appraiser 417 W. Main, Peoria, IL 61606	309-637-3322 309-682-3922 Fax
Design Air Inc. Courtney Eston	MBE Commercial Air Duct Cleaning 3806 W. Hearthwood Dr., Dunlap, IL 61525 www.designair-inc.com	309-693-8632 309-243-2102 Fax cle@designair-inc.com
E & D Trucking and Hauling, Inc. Eddie Proctor	MBE Trucking/Hauling 1913 N. Idaho, Peoria, IL 61604	309-682-4336 309-251-6736 Cell proctor13@comcast.net
Flessner Electric	WBE Electrical 3600 S. Cameron Ln., Mapleton, IL 61547	309-697-2484
Fire & Ice Heating and Air J.T. Toombs	MBE HVAC Maintenance, Installment 922 W. Smith St., Peoria, IL 61605	309-219-3708
Foster-Jacob Electric Emily Rudesill	WBE Electrical 826 W. Main St., Peoria, IL 61606	309-674-8129
Fuhrmann Engineering Inc. Matt Smith	WBE Civil Engineers / Land Surveyors 456 Fulton St., Suite 146	309-713-3498 Ext. 5
	www.fuhrmann-eng.com	msmith@fuhrmann-eng.com
Garza Heating & Cooling	MBE HVAC 1304 S. Western Ave., Peoria, IL 61605	309-645-6294
GIVSCO Construction Ronnie Givens	MBE General Contractor 2321 Lakeshore Dr., Pekin, IL 61554	309-620-9127 info@GIVSCO.com
Gutters & More Kristine Stone-Rainey	WBE Roofing 157 Thunderbird Ln., East Peoria, IL 61611 www.gutters&moreinc.com	309-694-4000 309-694-3356 Fax ksr@gutters-more.com
Hancock Trucking, Inc. Nancy Hancock	WBE Trucking/Hauling 30570 Hancock Road, Mackinaw, IL 61755	309-447-6733

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Hanley Steel, Inc. Jill Hanley	WBE Fabricated Structural and Miscellaneous Steel 8811 N. Industrial Rd., Peoria, IL 61615	309-692-5250 309-692-5251 Fax
Heart Technologies Jim Bainter, Brad Armstrong	WBE Data\Telephone Communication and Construction 3105 N. Main Street, Peoria, IL 61611	309-427-7000 309-427-7007 Fax
Hermann & Associates Alisha Hermann	WBE Consultant Engineering 5835 N. Galena Rd., Peoria, IL 61614	309-687-5566 309-687-0571 Fax
Hoops Painting Monty Hoops	MBE Painting 136 Middle Park Dr., Canton, IL 61520	309-224-0736
Horan Construction, Inc. Susan Arnholt	WBE Carpentry, Concrete, Demolition, General, Wrecking 1720 W. Chanute Road, Peoria, IL 61615	309-691-3133 309-691-1841 Fax
Infrastructure Engineering Thu Truitt	MBE Civil Engineering 456 Fulton St., Suite 104, Peoria, IL 61602	309-637-9200 309-637-9210
Intech Innovations John McCrary	WBE Audio/Video Design and Integration Washington, IL 61571 www.intechinnovations.com	309-370-6676 309-745-9691 Fax jmccrary@intechinnovations.com
JC Construction Frank Coates	MBE General 3609 N. Woodvine Terrace, Peoria, IL 61605	309-303-3919 Cell fcoates1@yahoo.com
J & K Construction James Tillman	MBE General 4003 N. Rochelle, Peoria, IL 61615	309-685-8554 309-685-8554 Fax tesinc@comcast.net
JM Industrial Supply Ron Givens	MBE Maintenance Items, Tools, Soaps 2323 Lakeshore, Pekin, IL 61554	309-346-5796 309-347-5100 Fax
Kahbeah Contracting & Trucking Larry Kahbeah	MBE Trucking/Hauling 510 N. Yates, P. O. Box 56, Tallula, IL 62688	217-634-4157 217-634-4157 Fax
Kreiling Roofing Co.	WBE Slate, Wood Shakes, Tile, Thatch, Custom Fabricated Copper and Steel, Residential and Commercial 2335 W. Altorfer Dr., Peoria, IL 61615	309-673-3649 info@kreiling.com
LV Enterprise John L. Palmer	MBE Trucking/Hauling 303 E. Archer Avenue, Peoria, IL 61603	309-657-2420 309-682-8872 Fax
M & A Plumbing Michael Abner	MBE Plumbing 6216 N. Devonshire Avenue, Peoria, IL 61615	309-689-0133 309-689-0133 Fax
M & L Plumbing Manzell Lawson	MBE Plumbing 1309 W. Lincoln, Peoria, IL 61605	309-674-8466
Mid-Illinois Companies, Corp. Debra Young	WBE Metal Framing, Insulation, Drywall, Plaster & Exterior Insulation, Acoustical Ceilings and Wall Panels, Painting and Wall Covering, Access Flooring 905 NE Adams St., Peoria, IL 61603	309-674-0717 dyoung@mic123.com
Midwest Construction Services Sheila Shover	M/WBE Traffic Control Products, Trucking/Hauling P. O. Box 4185, Bartonville, IL 61607	309-697-1000 309-697-1004 Fax sshover@mcstraffic.com
Millennia Professional Services of IL Paul Moreno	MBE Civil Engineering, Erosion Control, Landscaping, Sewer Construction, Surveying, Retaining Walls 850 N. Main St., Morton, IL 61550 www.mps-il.com	309-321-8141 309-321-8142 sdietz@mps-il.com
Molleck Electric	WBE Electrical 14926 W. Winchester Dr., Brimfield, IL 61517	309-446-3483

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04/2017

Ordaz Construction Co. Inc. Elizabeth Ordaz Mercer	WBE Concrete 10088 Modena Rd., Wyoming, IL 61491 www.ordazco.com	309-693-3338 309-693-5505 Fax lindahall@odazco.com
Porter, V. L. Vincent Porter	MBE Concrete, General 500 W. North, Suite 10, Springfield, IL 62704	217-744-8050
RNS Electric Inc. Regina Slonneger	WBE Electrical 28558 Irish Lane, Washington, IL 61571	309-444-5200 309-444-5201 Fax rns@att.net
Rudd Trucking Nanette Jenkins-Rudd	WBE Trucking/Hauling 107 Washington St., Kingston Mines, IL 61539	309-389-4150 309-389-2849 Fax
Rufus Construction Company Rufus Nelson	MBE Painting, Roofing, Remodeling 1819 S. Idaho Street, Peoria, IL 61605	309-673-6776 309-497-9453 Cell
Searle Trucking, Inc. Debbie Searle	WBE Trucking/Hauling P.O. Box 4142, Bartonville, IL 61607	309-686-0708 309-688-5365 Fax searletrkn@comcast.net
Tabitha Ventures, Inc. Edward O. Taiwo	MBE Asphalt, Concrete, Demolition, Earthwork, Electrical, Excavation, General, HVAC, Landscaping, Painting, Plumbing, Resurfacing, Roofing, Trucking/Hauling	309-692-1473 309-692-1564 Fax
	2000 W. Pioneer Parkway, Suite 7B, Peoria, IL 61615 www.tabithainc.com	Edward@tabithainc.com
TEMCO Heating & AC Ellen Robinson	WBE Heating & AC 913 Laramie St., Peoria, IL 61605	309-637-7746
Ellen Robinson The Communication Connection	913 Laramie St., Peoria, IL 61605 WBE Communication, Wire & Cable, Electrical & Telephon	e Products
Ellen Robinson The Communication Connection Jennifer Stone Three Cross Development	913 Laramie St., Peoria, IL 61605 WBE Communication, Wire & Cable, Electrical & Telephon 604 Filmore Street, Harrisburg, PA 17104 MBE Concrete, General, Sidewalk, Drywall, Painting Roofing, Electrical, Plumbing, Trucking/Hauling	ne Products 717-561-7267
Ellen Robinson The Communication Connection Jennifer Stone Three Cross Development J. T. Donelson Thompson Brothers Inc.	913 Laramie St., Peoria, IL 61605 WBE Communication, Wire & Cable, Electrical & Telephon 604 Filmore Street, Harrisburg, PA 17104 MBE Concrete, General, Sidewalk, Drywall, Painting Roofing, Electrical, Plumbing, Trucking/Hauling 1519 W. Millman, Peoria, IL 61605 MBE General Carpentry & Construction, Interior Finishes, Millwork	ne Products 717-561-7267 309-637-1238 309-613-0254
Ellen Robinson The Communication Connection Jennifer Stone Three Cross Development J. T. Donelson Thompson Brothers Inc. Todd Thompson Thornton Rave	913 Laramie St., Peoria, IL 61605 WBE Communication, Wire & Cable, Electrical & Telephon 604 Filmore Street, Harrisburg, PA 17104 MBE Concrete, General, Sidewalk, Drywall, Painting Roofing, Electrical, Plumbing, Trucking/Hauling 1519 W. Millman, Peoria, IL 61605 MBE General Carpentry & Construction, Interior Finishes, Millwork P.O. Box 313, Pekin, IL 61555 MBE Precast & Prestressed Concrete, Demolition, Excavating, Grading, Drainage, Aggregate Bases & Surfaces, Pavement Patching	ne Products 717-561-7267 309-637-1238 309-613-0254 thompsonbros@me.com
Ellen Robinson The Communication Connection Jennifer Stone Three Cross Development J. T. Donelson Thompson Brothers Inc. Todd Thompson Thornton Rave dba Illini Concrete Co. of Illinois	913 Laramie St., Peoria, IL 61605 WBE Communication, Wire & Cable, Electrical & Telephon 604 Filmore Street, Harrisburg, PA 17104 MBE Concrete, General, Sidewalk, Drywall, Painting Roofing, Electrical, Plumbing, Trucking/Hauling 1519 W. Millman, Peoria, IL 61605 MBE General Carpentry & Construction, Interior Finishes, Millwork P.O. Box 313, Pekin, IL 61555 MBE Precast & Prestressed Concrete, Demolition, Excavating, Grading, Drainage, Aggregate Bases & Surfaces, Pavement Patching 929 E. Grove St., Suite A, Bloomington, IL 61701 MBE Electrical	309-613-0254 thompsonbros@me.com 309-585-2376 309-685-8554

	Prevailing Wage rates for Peoria County effective Sept. 1, 2017												
Trade Title	Region	Туре	Class	Base Wage	Fore- man Wage	M-F OT	OSA	OSH	H/W	Pension	Vacation	Training	
ASBESTOS ABT-GEN	All	BLD		\$26.89	\$28.39	1.5	1.5	2	\$7.80	\$18.85	\$0.00	\$0.80	
ASBESTOS ABT-GEN	All	HWY		\$29.99	\$31.49	1.5	1.5	2	\$7.80	\$20.64	\$0.00	\$0.80	
ASBESTOS ABT-MEC	All	BLD		\$32.78	\$35.28	1.5	1.5	2	\$12.12	\$11.70	\$0.00	\$0.72	
BOILERMAKER	All	BLD		\$39.50	\$42.50	2	2	2	\$7.07	\$12.47	\$0.00	\$0.40	
BRICK MASON	All	BLD		\$33.16	\$34.66	1.5	1.5	2	\$9.40	\$10.57	\$0.00	\$0.79	
CARPENTER	All	BLD		\$32.01	\$34.26	1.5	1.5	2	\$8.45	\$17.10	\$0.00	\$0.54	
CARPENTER	All	HWY		\$34.04	\$36.29	1.5	1.5	2	\$8.45	\$17.50	\$0.00	\$0.52	
CEMENT MASON	All	BLD		\$28.05	\$29.80	1.5	1.5	2	\$7.50	\$15.65	\$0.00	\$0.50	
CEMENT MASON CERAMIC TILE FNSHER	All	HWY		\$32.11 \$30.86	\$33.61 \$30.86	1.5	1.5	2	\$8.25 \$9.40	\$16.77 \$10.57	\$0.00 \$0.00	\$0.50 \$0.77	
ELECTRIC PWR EQMT OP	All	ALL		\$43.76	\$54.80	1.5	1.5	2	\$6.81	\$10.57	\$0.00	\$0.77	
ELECTRIC PWR GRNDMAN	All	ALL		\$29.96	\$54.80	1.5	1.5	2	\$6.40	\$8.39	\$0.00	\$0.30	
ELECTRIC PWR LINEMAN	All	ALL		\$48.61	\$54.80	1.5	1.5	2	\$6.96	\$13.61	\$0.00	\$0.49	
ELECTRIC PWR TRK DRV	All	ALL		\$31.42	\$54.80	1.5	1.5	2	\$6.44	\$8.80	\$0.00	\$0.43	
ELECTRICIAN	All	ALL		\$35.71	\$38.21	1.5	1.5	2	\$7.55	\$12.21	\$0.00	\$0.80	
ELECTRICIAN	All	BLD		\$34.82	\$37.32	1.5	1.5	2	\$6.10	\$11.43	\$0.00	\$0.40	
ELECTRONIC SYS TECH	All	BLD		\$28.00	\$30.00	1.5	1.5	2	\$7.10	\$11.44	\$0.00	\$0.40	
ELEVATOR CONSTRUCTOR	All	BLD	İ	\$43.43	\$48.86	2	2	2	\$15.28	\$15.71	\$3.47	\$0.60	
GLAZIER	All	BLD		\$34.87	\$34.87	1.5	1.5	1.5	\$10.50	\$7.70	\$0.00	\$1.25	
HT/FROST INSULATOR	All	BLD		\$43.70	\$46.20	1.5	1.5	2	\$12.12	\$12.96	\$0.00	\$0.72	
IRON WORKER	All	BLD		\$32.41	\$34.31	1.5	1.5	2	\$10.66	\$15.47	\$0.00	\$0.54	
IRON WORKER	All	HWY		\$36.82	\$38.82	1.5	1.5	2	\$10.66	\$15.47	\$0.00	\$0.64	
LABORER	All	BLD		\$25.89	\$27.39	1.5	1.5	2	\$7.80	\$18.85	\$0.00	\$0.80	
LABORER	All	HWY		\$29.24	\$30.74	1.5	1.5	2	\$7.80	\$20.64	\$0.00	\$0.80	
LABORER, SKILLED	All	BLD		\$26.29	\$27.79	1.5	1.5	2	\$7.80	\$18.85	\$0.00	\$0.80	
LABORER, SKILLED	All	HWY		\$29.54	\$31.04	1.5	1.5	2	\$7.80	\$20.64	\$0.00	\$0.80	
LATHER	All	BLD		\$32.01	\$34.26	1.5	1.5	2	\$8.45	\$17.10	\$0.00	\$0.54	
MACHINERY MOVER	All	HWY		\$36.82	\$38.82	1.5	1.5	2	\$10.66	\$15.47	\$0.00	\$0.64	
MACHINIST	All	BLD		\$45.35	\$47.85	1.5	1.5	2	\$7.26	\$8.95	\$1.85	\$0.00	
MARBLE FINISHERS	All	BLD		\$30.86	¢22.00	1.5	1.5	2	\$9.40	\$10.57	\$0.00	\$0.77	
MARBLE MASON MILLWRIGHT	All	BLD		\$32.61 \$31.74	\$33.86 \$33.99	1.5	1.5	2	\$9.40 \$8.45	\$10.57 \$17.72	\$0.00 \$0.00	\$0.78 \$0.54	
MILLWRIGHT	All	HWY		\$33.59	\$35.33	1.5	1.5	2	\$8.20	\$16.95	\$0.00	\$0.54	
OPERATING ENGINEER	All	BLD	1	\$39.69	\$42.69	1.5	1.5	2	\$9.00	\$19.23	\$0.00	\$3.00	
OPERATING ENGINEER	All	BLD	2	\$36.83	\$42.69	1.5	1.5	2	\$9.00	\$19.23	\$0.00	\$3.00	
OPERATING ENGINEER	All	BLD	3	\$32.12	\$42.69	1.5	1.5	2	\$9.00	\$19.23	\$0.00	\$3.00	
OPERATING ENGINEER	All	HWY	1	\$39.69	\$42.69	1.5	1.5	2	\$9.00	\$19.23	\$0.00	\$3.00	
OPERATING ENGINEER	All	HWY	2	\$36.83	\$42.69	1.5	1.5	2	\$9.00	\$19.23	\$0.00	\$3.00	
OPERATING ENGINEER	All	HWY	3	\$31.27	\$41.62	1.5	1.5	2	\$8.00	\$19.23	\$0.00	\$3.00	
PAINTER	All	ALL		\$35.35	\$37.35	1.5	1.5	1.5	\$10.30	\$8.20	\$0.00	\$1.35	
PAINTER SIGNS	All	BLD		\$33.92	\$38.09	1.5	1.5	1.5	\$2.60	\$2.71	\$0.00	\$0.00	
PILEDRIVER	All	BLD		\$33.01	\$35.26	1.5	1.5	2	\$8.45	\$17.10	\$0.00	\$0.54	
PILEDRIVER	All	HWY		\$34.04	\$36.29	1.5	1.5	2	\$8.45	\$17.50	\$0.00	\$0.52	
PIPEFITTER	All	BLD		\$38.90	\$43.18	1.5	1.5	2	\$7.10	\$12.53	\$0.00	\$1.06	
PLASTERER	All	BLD		\$29.00	\$30.25	1.5	1.5	2	\$8.15	\$16.19	\$0.00	\$0.80	
PLUMBER	All	BLD		\$35.17	\$38.34	1.5	1.5	2	\$7.00	\$14.21	\$0.00	\$0.95	
ROOFER	All	BLD		\$31.00	\$32.55	1.5	1.5	2	\$9.00	\$9.20	\$0.00	\$0.30	
SHEETMETAL WORKER	All	BLD		\$32.75	\$34.39	1.5	1.5	2	\$9.37	\$16.46	\$0.00	\$0.80	
SIGN HANGER	All	HWY		\$36.82	\$38.82	1.5	1.5	2	\$10.66	\$15.47	\$0.00	\$0.64	
SPRINKLER FITTER	All	BLD		\$37.12	\$39.87	1.5	1.5	2	\$8.42	\$8.50	\$0.00	\$0.35	
STEEL ERECTOR	All	HWY		\$36.82	\$38.82	1.5	1.5	2	\$10.66	\$15.47	\$0.00	\$0.64	
STONE MASON	All			\$33.16	\$34.66	1.5	1.5	2	\$9.40	\$10.57	\$0.00	\$0.79	
TERRAZZO FINISHER TERRAZZO MASON	All	BLD		\$30.86 \$32.61	\$32.61	1.5	1.5	2	\$9.40 \$9.40	\$10.57 \$10.57	\$0.00 \$0.00	\$0.77 \$0.78	
TILE MASON	All	BLD		\$32.61	\$33.86	1.5	1.5	2	\$9.40	\$10.57	\$0.00	\$0.78	
TRUCK DRIVER	All	ALL	1	\$36.15	\$40.04	1.5	1.5	2	\$9.40	\$5.89	\$0.00	\$0.78	
TRUCK DRIVER	All	ALL	2	\$36.15	\$40.04	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	
TRUCK DRIVER	All	ALL	3	\$36.07	\$40.04	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	
TRUCK DRIVER	All	ALL	4	\$30.31	\$40.04	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	
TRUCK DRIVER	All	ALL	5	\$38.23	\$40.04	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	
TRUCK DRIVER	All	O&C	1	\$28.92	\$32.03	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	
TRUCK DRIVER	All	O&C	2	\$29.34	\$32.03	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	
TRUCK DRIVER	All	0&C	3	\$29.53	\$32.03	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25	

Prevailing Wage rates for Peoria County effective Sept. 1, 2017												
Trade Title	Region	Туре	Class	Base Wage	Fore- man Wage	M-F OT	OSA	OSH	H/W	Pension	Vacation	Training
TRUCK DRIVER	All	0&C	4	\$29.80	\$32.03	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25
TRUCK DRIVER	All	O&C	5	\$30.58	\$32.03	1.5	1.5	2	\$12.16	\$5.89	\$0.00	\$0.25
TUCKPOINTER	All	BLD		\$33.16	\$34.66	1.5	1.5	2	\$9.40	\$10.57	\$0.00	\$0.79

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 PEORIA COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime 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 of 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 mechanical 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 no way 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, or 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 not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

LABORER, SKILLED - BUILDING

The skilled laborer building (BLD) classification shall encompass the following types of work, irrespective of the site of the work: cutting & acetylene torch, gunnite nozzlemen, gunnite pump men & pots, kettlemen & carriers of men handling hot stuff, sandblaster nozzle men, sandblasting pump men & pots, setting up and using concrete burning bars, wood block setters, underpinning & shoring of existing buildings, and the unload-ing and handling of all material coated with creosote.

LABORER, SKILLED - HIGHWAY

The skilled laborer heavy & highway (HWY) classification shall encompass the following types of work,irrespective of the site of the work: jackhammer & drill operator, gunite pump & pot man, puddlers, vibrator men, wire fabric placer, sandblast pump & pot man, strike off concrete, unloading, handling & carrying of all creosoted piles, ties or timber, concrete burning bars, power wheelbarrows or buggies, asphalt raker, brickset-ters, cutting torchman (electric & acetylene), men setting lines to level forms, form setters, gunite nozzle man & sandblasting nozzle man, power man, and rip-rapping by hand.

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, greasers 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 or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket 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, or 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 the 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 Drum - Tri Batchers); Blacktop Plant Operators and Plant Engineers; 3 Drum Hoist; Derricks; Hydro Cranes; Shovels; Skimmer Scoops; Koehring Scooper; Drag Lines; Backhoe; Derrick Boats; Pile Drivers and Skid Rigs; Clamshells; Locomotive Cranes; Dredge (all types) Motor Patrol; Power Blades - Dumore - Elevating and similar types; Tower Cranes (Crawler-Mobile) and Stationary; Crane-type Backfiller; Drott Yumbo and similar types considered as Cranes; Caisson Rigs; Dozer; Tournadozer; Work Boats; Ross Carrier; Helicopter; Tournapulls - all and similar types; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock

Crusher; Heavy Equipment Greaser; CMI, CMI Belt 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 similar 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; Center 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 or Elevating Grader; Porter Rex Rail; Clary Screed; Truck Type Hoptoe Oilers; Fireman; Spray Machine on Paving; Curb Machines; Truck Crane 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 Under (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; Derrick Boats; Pile Driver and Skid Rigs; Clam Shell; Locomotive - Cranes; Road Pavers - Single Drum - Dual Drum - Tri Batcher; Motor Patrols & Power Blades - Dumore - Elevating & Similar Types; Mechanics; Central Concrete Mixing Plant Operator; Asphalt Batch Plant Operators and Plant 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 Track and Similar Types; Side Booms; Asphalt Heater & Planer Combination (used to plane streets); Wheel Tractors (with Dozer, Hoe or Endloader 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 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 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 (self-propelled); 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 Rex 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; Horizontal Directional Drill; Articulating End Dump Vehicles; Starting Engineer on Pipeline or Construction (6 -10 pieces) including: Air 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).

CLASS 3. Straight Framed Truck Mounted Vac Unit (separately powered); Trac Air Machine (without attachments); Rollers - Five Ton and Under on Earth and Gravel; Form Graders; Bulk Cement Plant; Oilers; and Starting Engineer on Pipeline or Construction (3 - 5 pieces) including: Air 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 be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

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

SAMPLE ADDENDUM

Peoria Park District Planning, Design and Construction Department 1314 N. Park Road Peoria, IL 61604 Telephone: (309) 686-3386	ADDENDUM NO. PROJECT TITLE: AVIARY CURTAIN WALL REPLACEMENT
ISSUANCE DATE:	
LOCATION: Peoria Zoo	
The proposed Contract Documents for this Work are modified as follows:	
I. <u>DRAWINGS</u> : (Delete/Change/Modify/Etc.)	
II. PROJECT MANUAL/SPECIFICATIONS/GENERAL COME (Delete/Change/Modify/Etc.)	NDITIONS/ETC.:
III. <u>INVITATION TO BID</u> : (Delete/Change/Modify/Etc.)	
END OF ADDENDUM NO	O
(Addendum may be bound into Project Manual, attached to from	t cover, faxed, mailed or delivered to bidders.)
	Addendum No. Page 1 of 1



Pleasure Driveway and Park District of Peoria, Illinois Sample Agreement Between Owner and Contractor

This AGREEMENT for	ARY CURTAIN WALL REPLACEMENT ORIA, ZOO		
is made as of the day of	in the year of Two Thousand Seventeen (2017)		
Between the Owner:	PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, ILLINOIS 1125 W. LAKE AVENUE PEORIA, IL 61614		
And the Contractor:			
The Owner's Representativ	PLANNING, DESIGN AND CONSTRUCTION DEPARTMENT 1314 N. PARK ROAD PEORIA, IL 61604		
The Architect or Engineer	APACE DESIGN ARCHITECTS + ENGINEERS 2122 E. WAR MEMORIAL DRIVE PEORIA, IL 61614		

The Owner and Contractor agree as follows:

- I. THE CONTRACT DOCUMENTS. The Contract Documents consist of this AGREEMENT, the Plans/Drawings for the Project dated August 22, 2017, all sections of the Project Manual dated August 22, 2017, including but not limited to the Instructions and Supplementary Instructions to Bidders, the Bid Form, the General Conditions (1997 AIA Document A201) and Supplementary General Conditions, the General Requirements, the Specifications, and other documents as enumerated in Section 10 and Attachment #1 of this AGREEMENT, and including addenda issued prior to the execution of this AGREEMENT. The Contract Documents form the CONTRACT between the Owner and the Contractor. The CONTRACT represents the entire and integrated contract for the construction of the Work of the Project between the parties hereto and supersedes prior proposals, contracts, negotiations, or representations, either written or oral.
- **II. THE WORK OF THE CONTRACT.** The Contractor shall execute the entire Work described in the Contract Documents, unless modified in Section XI of this AGREEMENT.
- III. BASIS OF PAYMENT. The Work of the CONTRACT shall be performed on a lump sum basis.

Work req CONTRA multiplyii CONTRA	rporates the acceptance of bid alternates as defined in suited by the Contract Documents, subject to modification of calls for a unit price basis of payment, the contracting the unit prices submitted by the Contractor on the Bia ACT) times (x) the actual quantities installed. A. ACCEPTANCE OF ALTERNATES. The contraction of the contra	ons made by Owner ap sum stated above shall d Form (and included l	proved Change Orders. If this be adjusted by Change Order bas herein as an Attachment to this	ed upon
	alternates, which are described in the Project Manual:			
	alternates, which are described in the Project Manual: <u>ITEM</u>	<u>ADD</u>	<u>DEDUCT</u>	
	, ,	<u>ADD</u>	<u>DEDUCT</u>	
	, ,	<u>ADD</u>	<u>DEDUCT</u>	
	, ,	<u>ADD</u>	<u>DEDUCT</u>	
	, ,	<u>ADD</u>	<u>DEDUCT</u>	
	, ,	<u>ADD</u>	<u>DEDUCT</u>	

- V. DATES OF COMMENCEMENT AND COMPLETION OF THE WORK. The Owner's Representative will issue a written Notice to Proceed with the Work of the Project after receiving the required Performance Bond, Labor and Material Payment Bond, and Certificate of Insurance (in proper form and providing the required coverages and amounts from a company [or companies] acceptable to the Owner, and naming the Owner as an Additional Insured), and any other pre-construction submittals required by the Contract Documents. The Contractor hereby acknowledges and agrees that failure to provide such submittals in a timely manner shall not be cause to adjust the date(s) for completion of the Work.
 - **A.** LIQUIDATED DAMAGES. Owner and Contractor recognize that time is of the essence of this CONTRACT and that Owner will suffer financial loss if the Contractor has not achieved Substantial Completion and Final Completion of the Work within the time specified below, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time.
 - B. SUBSTANTIAL COMPLETION. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as Liquidated Damages for delay (but not as a penalty), Contractor shall pay Owner Two-Hundred Fifty dollars (\$250.00) for each calendar day that expires after Two-Hundred and twelve (212) calendar days from Notice of Award until Substantial Completion is attained. The work is tentatively scheduled to begin on September 21, 2017 and be at Substantial Completion by April 20, 2018.
 - **C. FINAL COMPLETION.** After Substantial Completion if Contractor shall neglect, refuse, or fail to complete the remaining Work necessary to achieve Final Completion within **Ten (10)** calendar days or any proper extension thereof granted by Owner, Contractor shall pay Owner **Two-Hundred Fifty (\$250.00)** for each day that expires after the time specified.

VI. PROGRESS PAYMENTS, REDUCTION OF RETAINAGE AND FINAL PAYMENT.

- A. Unless otherwise specified elsewhere in the Contract Documents, the Contractor may submit monthly applications for progress payments ("Application for Payment") to the Owner's Representative. Each Application for Payment must be certified by the Architect or Engineer (if applicable), or the Owner's Representative if an Architect or Engineer has not been engaged for construction phase services. An Application for Payment shall be for a period of no less than one calendar month ending on the last day of the month, unless otherwise approved in writing by the Owner's Representative. Application forms shall be subject to Owner's approval. Each Application for Payment shall be based upon the Schedule of Values submitted by the Contractor, in accordance with the Contract Documents. The Schedule of Values shall be approved by the Owner's Representative and the Architect or Engineer (if applicable) in advance of the Contractor's first Application for Payment and the approved schedule shall be used by the Contractor as the basis for submitting payment requests. The Owner's Representative and/or Architect/Engineer's (if applicable) approval of the Schedule of Values shall not constitute a complete check for accuracy, and shall not relieve the Contractor from responsibility for errors of any sort.
- **B.** An Application for Payment (certified by the Architect or Engineer, if applicable) shall be submitted to the Owner's Representative no later than the fifth (5th) day of the month following the period for which the application is being AVIARY CURTAIN WALL REPLACEMENT Project Manual

- submitted. In such case, the Owner shall make the progress payment to the Contractor not later than the twentieth day of the next month. A progress payment request on an Application for Payment (certified by the Architect or Engineer, if applicable) received by the Owner's Representative after the fifth (5th) day of a month shall be made by the Owner not later than forty-five days after receipt by the Owner's Representative.
- C. Based upon its review of the certified (by the Architect or Engineer, if applicable) Application for Payment, the Owner shall make a progress payment to the Contractor in such amount as the Owner reasonably determines is properly due, subject to a retainage of ten percent (10%) of the value of the Work completed and covered by the Application for Payment, less the aggregate of previous payments in each case. In determining the amount properly due, the Owner shall consider the value of labor, materials and equipment incorporated in the Work, or properly allocable to materials and equipment suitably stored at the site or at some other location previously agreed upon in writing by the parties. The Owner's Representative shall have the sole right to determine that materials or equipment stored off-site have been properly delivered, protected, and/or secured. The Owner's Representative (or the Architect or Engineer, if applicable) may nullify or withhold a Certificate of Payment, in whole or in part, for the reasons set forth in Section 9.5 of the General Conditions. Upon Substantial Completion of the Work, the Owner shall pay the Contractor a sum sufficient to increase the total payments to ninety-five percent (95%) of the Contract Sum, less such amounts as the Owner's Representative shall determine for incomplete work and unsettled claims.

VII. Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner when 1) the Contract has been fully performed by the Contractor except for the Contractor's responsibility to correct nonconforming Work as provided in Subparagraph 12.2.2 of the General Conditions and to satisfy other requirements, if any, which necessarily survive final payment; and 2) a final Certificate of Payment has been issued by the Architect/Engineer or Owner's Representative; such final payment shall be made by the Owner not more than forty-five (45) days after the receipt of the final Certificate of Payment by the Owner.

VIII. CHANGE ORDERS. The Owner and Contractor agree that changes in the Work are sometimes required and necessary, and that timely: a) submission of proposed changes in the Work or the scope of Work by the Owner, b) pricing by the Contractor, c) review by the Owner's Representative and/or Architect/Engineer, and d) final approval by the Owner are necessary in order to assure that the Work of the Project is completed on schedule. The Contractor hereby acknowledges and agrees that an increase in the scope of the Work does not grant or imply an increase in the Contract Time, unless specifically so stated on the final approved Change Order. The Contractor also agrees that any and all Work which deviates from the plans and specifications and/or results in additional Work performed by Contractor's forces, including those of his sub-contractor's, will not result in additional expense to the Owner, unless finally approved both by the Owner and the Architect/Engineer (if applicable) prior to the additional Work being performed. No claim for an addition to the Contract Sum shall be valid unless approved by a written Change Order signed by the Owner and the architect/engineer (if applicable) prior to the additional Work being performed.

IX. TERMINATION OR SUSPENSION. The CONTRACT may be terminated by the Owner or the Contractor as provided by Article 14 of the General Conditions. The Work may be suspended by the Owner as provided in Article 14 of the General Conditions.

- **X. ENUMERATION OF CONTRACT DOCUMENTS.** The Contract Documents, except for modifications issued after the execution of this Agreement, consist of:
 - **A.** this Standard Form of Agreement Between Owner and Contractor, of the Pleasure Driveway and Park District of Peoria, Illinois.
 - **B.** the Plans or Drawings titled **AVIARY CURTAIN WALL REPLACEMENT**, dated **August 22, 2017**, and enumerated in **ATTACHMENT #1 "LIST OF DRAWINGS"**.
 - C. Supplementary and other Conditions of the CONTRACT, and the Specifications, are those found in the Project Manual titled "AVIARY CURTAIN WALL REPLACEMENT", and dated August 22, 2017 enumerated as follows:
 - 1) Supplementary Instructions to Bidders
 - 2) Contractor's Proposal, as accepted by the Owner
 - 3) General Conditions of the Contract for Construction, AIA Document A201, 1997 Edition
 - 4) Supplementary General Conditions
 - 5) Major Subcontractor List
 - 6) Directory of Minority & Women Owned Business Enterprises
 - 7) Illinois Drug Free Workplace Certification
 - **8**) Contractor Certification (Individual or Corporate/Partnership)
 - 9) Peoria Park District Certificate of Equal Employment Opportunity Compliance for Contractors and Vendors
 - **10)** Workforce Profile
 - 11) Performance Bond
 - 12) Labor and Material Payment Bond
 - **13)** Proof of Insurance
 - 14) Specifications: Division 010000, "General Requirements"; Divisions 020000-350000 as applicable
 - 15) Attachment A.6 Insurance Requirements
 - 16) Certificate of Safety Compliance
 - 17) Peoria Park District Weekly Workforce Report
 - **18**) Certified Payroll Form
 - 19) Substance Abuse Prevention Program Certification

XI. MISCELLANEOUS PROVIS	SIONS. Other Provisions of	of this Agreement are as fo	ollows:	

This AGREEMENT is entered into as of the day and year first written above and is executed in at least three original copies of which one is to be delivered to the Contractor, one to the Architect/Engineer (if any) for use in the administration of the CONTRACT, and one to the Owner.

OWNER:	CONTRACTOR:	
(Signature)	(Signature)	
TIMOTHY J. CASSIDY, Park Board President	(Printed Name and Title)	
ATTEST:	ATTEST:	

ATTACHMENT #1 - LIST OF DRAWINGS

<u>Number</u>	<u>Title</u>	<u>Date</u>
G001	TITLE SHEET	08-22-2017
A100	PLANS AND ELEVATIONS	08-22-2017
A101	SECTIONS AND DETAILS	08-22-2017

PERFORMANCE BOND

TO: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA PEORIA, ILLINOIS

KNOW ALL MEN BY THEIR PRESENTS;

That		
as Principal, and		
corporation of the State of PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA, PEORIA, ILLIN	, as Surety, are held IOIS, as Obligee, in	as and firmly bound unto the the amount of
(\$), for the payment whereof Principal and Surety bind the successors and assigns, jointly and severally, firmly by these presents.	emselves, their heirs	s, executors, administrators,
WHEREAS, Principal has by written agreement dated with Obligee for	, 20	entered into a contract
in accordance with contract documents prepared by the Architect-Engineer, which is hereinafter referred to as "the Contract".	Contract is by refere	ence made a part hereof and
NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such perform the Contract and all changes thereof, and during the life of any guaranty of Principal shall fully secure and protect the Obligee from all liability and from all costs, engineering fees and attorneys' fees made necessary or arising from the fawith all obligations assumed by Principal in connection with the performance of obligation shall be null and void; otherwise it shall remain in full force and effect. Surety hereby waives notice of any changes in the Contract, including extensions of Principal shall be and is declared to be in default under the Contract, Obligee having Surety shall, after notice of such default, reserve all rights against all parties, tak	or warranty required loss or expense of a ilure, refusal or neg the Contract and all of time for the performed Oblig	d under the Contract, and, if any kind, including all court glect of Principal to comply Il changes thereof, then this ormance thereof. Whenever gee's obligations thereunder,
entitled to payment of the balance of any monies due or to become due to such de of the work.		
A condition of this Bond is that the Principal shall faithfully perform in accordanthe bid specification or Contract pursuant to Illinois Compiled Statutes 820 ILCS 1		ing wage clause provided in
No right of action shall accrue on this Bond to or for the use of any person herein.	or corporation other	er than the Obligee named
Signed and Sealed this day of	, 20	·

CONTRACTOR	SURETY
Contractor Firm Name	Surety Name
By:Signature	By:Attorney-in-Fact
Title	Resident Agent
ATTEST:	
Corporate Secretary (Corporations only)	

LABOR & MATERIAL PAYMENT BOND

TO: PLEASURE DRIVEWAY AND PARK DISTRICT OF PEORIA PEORIA, ILLINOIS

KNOW ALL MEN BY THESE PRESENTS:

That:			
as Principal, and			
a corporation of the State of	IA, ILLINOIS, as Obligee, for t Dollars (\$	he use and benefit of), for the payment
whereof Principal and Surety bind themselves firmly by these presents.	, their heirs, executors, administ	trators, successors an	d assigns, jointly and severally,
WHEREAS, Principal has by written ag with Obligee for	greement dated	, 20	, entered into a Contract
in accordance with contract documents prepare	ed by the Architect-Engineer when	hich Contract is by re	eference made a part hereof, and

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 820 ILCS 130/1 et. seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

- 1. A claimant is defined as any person, firm, or corporation having contracts with the Principal or with any of Principal's subcontractors for labor or materials furnished in the performance of the Contract on account of which this Bond is given.
- 2. Nothing in this Bond contained shall be taken to make the Obligee liable to any subcontractor, materialman or laborer, or to any other person to any greater extent than it would have been liable prior to the enactment of The Public Construction Bond Act, approved June 20, 1931, as amended; provided further, that any person having a claim for labor and materials furnished in the performance of the Contract shall have no right of action unless he shall have filed a verified notice of such claim with the Obligee within 180 days after the date of the last item of work or the furnishing of the last item of materials, which claim shall have been verified and shall contain the name and address of the claimant, the business address of the claimant within the State of Illinois, if any, or if the claimant be a foreign corporation having no place of business within the State the principal place of business of the corporation, and in all cases of partnership the names and residences of each of the partners, the name of the Contractor for the Obligee, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the Contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.
- 3. No action shall be brought on this Bond until the expiration of 120 days after the date of the last item of work or of the furnishing of the last item of material except in cases where the final settlement between the Obligee and the Contractor shall have been made prior to the expiration of the 120 day period, in which case action may be taken immediately following such final settlement; nor shall any action of any kind be brought later than 6 months after the acceptance by the Obligee of the work. Such suit shall be brought only in the circuit court of this State in the judicial district in which the Contract is to be performed.
- 4. Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof.

5. hereunder.	The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith			od faith	
6. Obligee rela	The Principal and Suative to claims made ag		nttorneys fees, engineering cos	ts, or court costs incurred	d by the
Signed and	Sealed this	day of			
<u>CONTRAC</u>	CTOR		SURETY		
Contractor l					
	Signature				
Title			Resident Agent		
ATTEST:					
Corporate S	ecretary (Corporations	s only)			

CONTRACTOR'S AFFIDAVIT

STATE OF ILLINOIS	/				
COUNTY OF PEORIA) SS)				
TO WHOM IT MAY C	ONCERN:				
THE undersigned, bein	g duly sworn, deposes and say	ys that he is			
building located at	r the of the				
That the total amount of of \$unconditionally and that names of all parties who for specific portions of s	The contract including extras prior to this pay there is no claim either legal have furnished material or la said work or for material enter mentioned include all labor an	is \$	are true, correct e validity of said rk and all parties thereof and the	on which he has and genuine and waivers. That to s having contract amount due or to	s received payment d delivered the following are the ts or sub-contracts to become due to
NAMES	WHAT FOR	CONTRACT PRICE	AMOUNT PAID	THIS PMT.	BALANCE DUE
There are no other contr	AND MATERIAL TO COMP racts for said work outstanding ny kind done or to be done up	g, and that there is nothing			
	day of			than above stat	cu.
Signature:					
Subscribed and sworn to	before me this day	y of	, 20		
Notary Public					

FINAL WAIVER OF LIEN

STATE OF ILLINOIS)		
) SS COUNTY OF PEORIA)		
TO WHOM IT MAY CONCERN:		
WHEREAS, the undersigned		ha been employed by THE
PEORIA PARK DISTRICT to furnish mate	erial and labor for the	
at the premises commonly known as		
located in the City of	, County of Peori	ia, State of Illinois.
dohereby waive and release any an mechanics' liens, with respect to and on said other considerations due or become due from heretofore furnished or which may be furnished.	ood and valuable considerand all lien or claim or right above-described premisom the owner on account o ished at any time hereafter	ations, the receipt whereof is hereby acknowledged, of lien under the statutes of the State of Illinois relating to see and improvements thereon and on the money, funds or of labor or services, material, fixtures, apparatus or machinery by the undersigned for the above described premises.
Dated this	day of	20
[Affix corporate seal here.]		
		(Name of sole owner, corporation or partnership)
ATTEST:		
		(SEAL)
(Signature of secretary of corporation)		(Signature of sole owner or authorized representative of corporation or partnership)

WAIVER OF LIEN

GENERAL CONTRACTOR'S PARTIAL TO COVER ONLY CERTAIN PAYMENTS

STATE OF ILLINOIS)	
OUNTY OF PEORIA)	
TO ALL WHOM IT MAY CONCERN:	
WHEREAS, the undersigned	has been employed
by THE PEORIA PARK DISTRICT to furnish material and labor	for theat
the premises commonly known as	
located in the City of Peoria, County of Peoria, and State of Illinois	S.
NOW, THEREFORE, the undersigned, for and in consider	
whereof is hereby acknowledged by the undersigned, does hereby	waive and release to the extent only of the aforesaid amount of
Dollars, paid lien under the statutes of the State of Illinois relating to mechanics'	liens, with respect to and on said above-described premises,
and the improvements thereon and on the money, funds, or other conflabor, services, material, fixtures, apparatus or machinery, furnish	shed by the undersigned, to or on account of the said owner, for
the above-described premises, but only to the extent of the paymen	it aforesaid.
Dated this day of	, 20
[Affix corporate seal here]	
	(Name of sole owner, corporation or partnership)
ATTEST:	
	(SEAL)
(Signature of secretary of corporation)	(Signature of sole owner or authorized representative of corporation or partnership)

SUB-CONTRACTOR'S FINAL WAIVER OF LIEN

STATE OF ILLINOIS) SS			
COUNTY OF PEORIA)			
TO WHOM IT MAY CONCERN:			
WHEREAS, the undersign	ned	contractor)	
ha been employed by	(sub-	contractor)	
	(general contrac	etor)	
to furnish material and labor for the	:	·	at the
premises commonly known as		, in the City of	,
County of Peoria, State of Illinois.			
the receipt whereof is hereby acknown the statutes of the State of Illinois re	owledged, do her elating to Mechanics Lie	Dollars, and other good reby waive and release any and all lien or class, on the above described premises and in the from the owner on account of labor or ser	and valuable considerations laim or right of lien under approvements thereon and on
		be furnished at any time hereafter by the ur	
Dated this	day of	, 20	-
[Affix corporate seal here.]			
ATTEST:			
(Name of sole owner, corporation of	or partnership)		(07.11)
(Signature of sole owner or authorize representative of corporation of par		(Signature of secretary of corporation)	(SEAL) oration)

WAIVER OF LIEN

SUB-CONTRACTOR'S PARTIAL TO COVER ONLY CERTAIN PAYMENTS

STATE OF ILLINOIS)	aa	
COUNTY OF PEORIA)	SS	
TO WHOM IT MAY CONCER	RN:	
THE undersigned,		
has been appleased by	(sub-contrac	etor)
nas been employed by	(general contra	actor)
to furnish material and labor for	r the	
located in the City of Peoria, Co	ounty of Peoria, and State of	f Illinois.
NOW, THEREFORE,	the undersigned, for and in	consideration of the sum of Dollars, and other good and valuable considerations, the receipt
whereof is hereby acknowledge	ed by the undersigned, does	hereby waive and release to the extent only
liens, with respect to and on sai	d above-described premises due from the owner on acco	Dollars, paid of lien under the statutes of the State of Illinois relating to mechanics', and the improvements thereon and on the money, funds, or other ount of labor, services, material, fixtures, apparatus or machinery, payment aforesaid.
Dated this	day of	
[Affix corporate seal here.]		
		(Name of sole owner, corporation or partnership)
ATTEST:		
		(SEAL)
(Signature of secretary of corpo	oration)	(Signature of sole owner or authorized representative of corporation or partnership)

PEORIA PARK DISTRICT

Weekly Workforce Report

Instructions

This weekly workforce report must be completed and returned to the Peoria Park District project manager for each week that you are working on Peoria Park District property. You are to report only those employees that are actually working on the Peoria Park District project identified on this report. Do <u>not</u> report employees that are <u>not</u> working on the project identified on this report.

If you have further questions regarding this report, please contact the Owner's Project Manager.

I Trade & Hour Breakdown Table

- List the different trades (carpenter, laborer, plumber, etc.) and report the number of hours by race/gender for each trade;
- Total the hours for each trade on the right.

II New Hires by Race & Gender

• If additional employees are hired for the job, please record the number of employees hired by race/gender.

III Total Project Employee Breakdown

• Please track total hours by race/gender for the project if project lasts longer than a week.

Weekly Workforce Report (Peoria Park District Form)			Date: Week Ending:					
Contractor/Subcontractor Name:			Project:					
Trade & Hour Brea	akdown:							
TRADE	FEMALE HOURS	CAUCASIAN HOURS	AFRICAN- AMERICAN HOURS	HISPANIC, HOURS	NATIVE AMERICAN HOURS	ASIAN, PAC. ISLANDER, OTHER HOURS	TOTAL HOURS	
New Hires by Race	& Gender							
TRADE	CAUCASIAN	AFRICAN- AMERICAN	HISPANIC	NATIVE AMERICAN	ASIAN,PACIFIC ISLANDER, OTHER	MALE	FEMALE	
Total Project Empl	oyee Breakdown							
	CAUCASIAN	AFRICAN- AMERICAN	HISPANIC	NATIVE AMERICAN	ASIAN,PACIFIC ISLANDER, OTHER	MALE	FEMALE	

₹D	State of Illinois
\I	State of Illinois Illinois Department of Labor

Certified Transcript of Payroll

IDOL Case File Number:	Payroll Start:					Payroll End:							
	Contractor and/or Subcontractor					Public Body Information							
(Contract Number)	(Company Name)			(Contact Name)			(Public Body Name)				(Contact Name)		
(Project Number)	(Street Address)					(Ci	ity)	(Street Address)			(City)		
(Project Location)	(State)	(Zipcode)			one Numbe			(State)	(Zipcode)		(Telephone		
	Report H	ours for Eac	ch Day, Ir	ncluding	Overtime	e Hours,	List Hour	ly Prevailing V	Vage Rate	and Hourly F	ringe Ben	efits Allotr	nents.
Worker Name, Address Last Four of SSN & Telephone Number	SI	JN MON	Hours worl	ked each d WED	lay THR	FRI	SAT	Total Straight Time Hours	Total OT Hours	Hourly Wage Rate	OT Wage Rate	Per Pay Gross	Period Net
	PW												
	N												
Labor Classification	Hourly	ringe Benefit:	Pensio	n:		Health/	Welfare:		Vacation:		Training	g:	
	PW												
	N												
Labor Classification	Hourly	ringe Benefit:	Pension	n:		Health/	Welfare:		Vacation:		Training	g: [
	PW												
	N												
Labor Classification	Hourly	ringe Benefit:	Pensio	n:		Health/	Welfare:		Vacation:		Training	g:	

Please place an "F" by the hourly rate for fringe benefits paid to a Fund jointly managed by one or more labor organizations or employers in accordance with the federal Labor Management Relations Act (See instruction 4 for completing this form). In addition contractors/subcontractors who do not make contributions for covered fringe benefits to a fringe benefit fund that is jointly managed and jointly governed by one or more labor organizations or employers in accordance with the federal Labor Management Relations Act must provide the additional information set forth on the form on page 2 (see Instruction 5). Contractors/subcontractors who do not make contributions for fringe benefits on a per hour basis for each hour worked must convert such contributions to an annualized per hour basis for purpose of reporting on this form in accordance with instruction 5. You must keep original records showing start and end time each day.

*PW - Prevailing Hours Worked *N - Non Prevailing Hours Worked

Page __ of __

Section 1

Certified Transcript of Payroll

<u>AFFIDAVIT</u>	FRINGES	SUBCONTRACTORS
Weekly Statement of Compliance	Health Fund	II .
Date:	Health Address	Company Hamo.
	Health Sponsor	Contact Person:
l,, (name signatory party)	Health Admin	
		(Address)
, do , do	Pension Fund	(City) (State) (zipcode)
hereby state: that I pay or supervise the payment	Pension Address	
of the persons employed on the public works project ;	Pension Sponsor	II .
(name of project)	Pension Admin	II
that during the payroll period commencing on the		Contact Person:
day of (month), (year)	401(k) Fund	II .
all persons employed on said project have been	401(k) Address	(Address)
paid the full weekly wages earned, that no	401(k) Sponsor	II .
rebates have been or will be made either directly or indirectly to or on behalf of said	401(k) Admin	
(name of contractor or subcontractor)	Vacation Fund	Company Name:
from the full weekly wages earned by any person, and that no deductions have been made either	Vacation Address	
directly or indirectly from the full weekly wages	Vacation Sponsor	
earned by any persons, other than permissible deductions as defined by Federal and/or State		
Law. I further certify that this payroll is correct and complete; that the wage rates contained therein are not less than the actual rates herein	Vacation Admin	(City) (State) (zipcode) Telephone Number:
stated and that the classification set forth for each laborers or mechanic conform to the work he/she		Company Name:
performed.		Contact Person:
		(Address)
Signature		
		(City) (State) (zipcode)
Digital Signature		Telephone Number:

IL452CM01

A complete copy of AIA Document A201, 1997 Edition, with Supplementary General Conditions incorporated, is available for review in the Peoria Park District's Planning, Design and Construction Office.

SUPPLEMENTARY GENERAL CONDITIONS

- 1. A. "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AIA Document A201, 1997 Edition, published by the American Institute of Architects, including revisions adopted before the date of the Project Manual, is hereby made part of these Specifications with same force and effect as though set forth in full.
 - **B.** The following modifies, changes, deletes from or adds to the General Conditions of the Contract for Construction (AIA Document A201, Fourteenth Edition, 1997). Where any Article of the General Conditions is modified or any Paragraph, Subparagraph or Clause thereof is modified or deleted by these Supplementary Conditions, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect
 - **C**. Parenthesis () indicates the appropriate section and Subparagraph of the General Conditions which each paragraph of the Supplementary General Conditions modifies or refers to.
- 2. **INSERT THE FOLLOWING PHRASE TO PARAGRAPH** (1.1.1) **AFTER THE WORDS** "The Contract Documents consist of the Agreement Between Owner and Contractor (hereinafter the Agreement)":

"the Contractor's Bid, the Advertisement for Bids, the Instructions to Bidders, sample forms and addenda relating to these,"

DELETE THE LAST SENTENCE OF PARAGRAPH (1.1.1).

3. ADD THE FOLLOWING SENTENCES TO END OF PARAGRAPH (1.2.1):

The Contractor shall notify the Owner's Representative immediately if discrepancies are discovered. Full-size or large-scale details or drawings shall govern small-scale drawings that the former are intended to amplify. Dimensions from drawings shall not be determined by scale or rule. Where the Drawings and Specifications conflict with each other or with themselves, the Owner's Representative (in consultation with the Architect, if any) will decide which conflicting requirement governs. Should discrepancies or doubt occur, Contractor shall not proceed with the Work without clarification from the Owner. Contractor shall request clarification in a reasonable time to avoid delays and increases in the Contract Sum.

ADD THE FOLLOWING PARAGRAPHS TO SECTION (1.2):

- 1.2.4 If any item or material shown on the Drawings is omitted from the Specifications, or vice-versa (except when the Drawings and Specifications clearly exclude such omitted item), and when such item or material is clearly required to complete the detail shown or specified, the Contractor shall furnish and install such item or material of the type and quality established by the balance of the detail shown and specified at no increase to the Contract Sum.
- **1.2.5** Where a typical or representative detail is shown on the Drawings, this detail shall constitute the standard for workmanship and materials throughout those parts of the Work.

- 1.2.6 Any Summary of Work as outlined in the Specifications shall not be deemed to limit the work required by the Contract Documents. The Contractor and each Subcontractor shall be responsible for carefully examining all Drawings, including all details, plans, elevations, sections, schedules and diagrams for each particular type of work, and for coordinating the Work described in the Drawings, with the related Specifications. The Contractor shall also be responsible for determining the exact scope of work for each type of work per the Contract Documents and Contractor shall endeavor to check cross-references of work excluded from any division. The Contract Sum is deemed to be based on a complete installation. When additional details or instructions are clearly required to complete the work, the Contractor is deemed to have made an allowance in the Contract Sum for completion of such Work consistent with the local standard of care.
- **1.2.7** The Drawings are intended to show the arrangement, design and extent of the Work and are schematic in nature. They are not to be scaled for roughing-in measurements or used as shop drawings.

4. ADD THE FOLLOWING PARAGRAPH TO SECTION (1.5):

- 1.5.3 Neither any oral representation by or oral agreement with any officer, agent, or employee of Owner or Architect before execution of this Contract shall affect or modify any of the Contractor's rights or obligations hereunder. Contractor is not aware of any facts that make misleading or inaccurate in any material respect any information Owner or Architect has furnished to Contractor which would have a material adverse affect on the Contract Time or Contract Sum which Contractor has not advised Owner or Architect of, and if, during the course of the performance of the Work, Contractor learns of any such facts it will so advise Owner. Contractor shall not be entitled to any adjustments in the Contract Time or the Contract Sum as a consequence of Contractor's breach of the terms of this Subparagraph.
- 5. IN PARAGRAPH (1.6.1) DELETE THE WORD "Architect" IN THE FOURTH SENTENCE AND REPLACE IT WITH THE WORD "Owner".

DELETE SENTENCES #7, #8, #9 STARTING WITH "The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are"

- 6. DELETE PARAGRAPH (2.2.3) IN ITS ENTIRETY.
- 7. ADD THE FOLLOWING SENTENCE AT THE END OF PARAGRAPH (2.3.1):

"The Owner shall not be liable for any extra cost incurred by the Contractor by such an order."

- 8. IN PARAGRAPH (2.4.1) DELETE THE SECOND TO LAST SENTENCE.
- 9. IN PARAGRAPH (3.2.1, 3.2.2 AND 3.2.3) AFTER THE WORD "Architect" ADD THE WORDS "and Owner".
- 10. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.2):
 - **3.2.4** Before starting any work, the Contractor shall examine work performed by others to which his work adjoins or is applied to and report to the Owner's Representative any conditions that will prevent the satisfactory accomplishment of his work. Failure to notify the Owner's Representative of deficiencies or faults in preceding work prior to commencing work shall constitute acceptance thereof and waiver of any claim of its unsuitability.
- 11. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.4):

- **3.4.4** Before ordering any material or doing any Work, the Contractor shall verify all measurements at the Project site and he shall be responsible for the correctness of same. No extra charge or compensation will be allowed to the Contractor on account of any difference between actual dimensions and the measurements shown on the Project Drawings.
- **3.4.5** The Contractor shall carefully inspect all materials delivered on and to the Project site and reject defective materials without waiting for the Owner's Representative or other representative of Owner to observe the materials.

12. ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.5):

- 3.5.2 The Contractor agrees to assign to the Owner any and all manufacturer's warranties relating to materials and equipment furnished as part of the Work and further agrees to perform the Work in such manner so as to preserve any and all such manufacturer's warranties subject to installation directives and other terms of the Contract Documents. The Contractor agrees to deliver to the Owner, upon final payment, such assignments along with or as part of a reference manual, in form and detail reasonably acceptable to Owner, showing all such warranties and guarantees provided by the Contractor and Subcontractors. Such warranties and guarantees shall commence no sooner than the date of purchase from the supplier.
- **3.5.3** The warranty of Contractor provided in Paragraph 3.5 shall in no way limit or abridge the warranties of the suppliers of equipment and systems which are to comprise a portion of the Work, if they are broader, and all of such warranties shall be in form and substance as required by the Contract Documents. Contractor shall take no action or fail to act in any way which results in the termination or expiration of such third party warranties or which otherwise results in prejudice to the rights of the Owner under such warranties subject to installation directives and other terms of the Contract Documents. Contractor agrees to provide all notices required for the effectiveness of such warranties and shall include provisions in the contracts with the providers and manufacturers of such systems and equipment whereby Owner shall have a direct right of enforcement of such warranty obligations.
- 13. IN PARAGRAPH (3.6.1), DELETE THE WORD "Sales".

ADD THE FOLLOWING AT THE END OF PARAGRAPH (3.6.1):

The Peoria Park District is exempt from Federal, State and Local taxes. A certificate of exemption will be furnished upon request.

14. IN PARAGRAPH (3.10.2) BEFORE THE WORD "Architect's" ADD THE WORDS "Owner's and".

IN PARAGRAPH (3.10.2) AFTER THE WORD "Architect" ADD THE WORDS "and Owner's Representative".

ADD THE FOLLOWING PARAGRAPHS TO SECTION (3.10):

- **3.10.4** The construction schedule shall provide for the most expeditious and practicable execution of the Work. The Contractor shall also work closely with the Owner to confirm that the construction schedule accurately reflects the status of the Project. The Contractor's construction schedule shall be updated every month by the Contractor and submitted to the Owner.
 - .1 Whenever it becomes apparent from the updated construction schedule that any substantial completion previously established by the construction schedule cannot be met, the Contractor shall, at the Owner's request, take any or all of the following actions with no increase to the Contract Sum or Contract Time (unless the delay is caused by an event set forth in paragraph

- 8.3 of these General Conditions thereby permitting adjustment of the Contract Sum and/or Contract Time under Paragraph 4.3.5 of these General Conditions):
- .1.1 Increase construction manpower to substantially return the Project to schedule;
- .1.2 Increase the number of working hours per shift, shifts per day or the amount of construction equipment or any combination of the foregoing which will substantially return the Project to schedule;
- **.1.3** Reschedule activities to concurrently accomplish activities, to the maximum degree practicable, in the time required by the Contract Documents.

If the Contractor fails to take any of these actions Owner shall have the notice and other rights set forth in Paragraph 2.4.

15. IN PARAGRAPH (4.1.1) DELETE THE FIRST SENTENCE AND SUBSTITUTE THE FOLLOWING:

"The Architect, Owner's Representative, and Owner's Project Manager are defined in Paragraph C of "Section 01000 - General" of "Division 01000 - General Requirements".

- 16. IN PARAGRAPH (4.2.1) DELETE THE WORDS "and will be an Owner's Representative".
- 17. IN PARAGRAPH (4.2.2) DELETE THE WORDS "as a representative of the Owner".
- 18. IN PARAGRAPH (4.2.4) IN THE FIRST SENTENCE SUBSTITUTE THE WORD "Architect" FOR THE WORD "Owner" AND SUBSTITUTE THE WORD "Owner" FOR THE WORD "Architect".
- 19. IN PARAGRAPH (4.2.5) DELETE THE WORD "Architect's" AND "Architect'AND SUBSTITUTE THE WORDS "Owner Representative's" AND "Owner Representative".
- **20. IN PARAGRAPH** (<u>4.2.6</u>) **IN THE SECOND SENTENCE AFTER THE WORDS** "will have authority" **INSERT THE WORDS** "upon written authorization from the Owner".
- 21. IN PARAGRAPH (4.2.8) DELETE THE WORD "prepare" AND SUBSTITUTE THE WORDS "assist the Owner's Representative in preparing".
- **22. IN PARAGRAPH** (4.2.9) **DELETE THE WORD** "Architect" **AND SUBSTITUTE WORDS** "Owner's Representative, assisted by the Architect".
- 23. IN PARAGRAPH (4.2.11) IN THE FIRST SENTENCE DELETE THE WORDS "and decide".
- 24. IN PARAGRAPH (4.2.12) IN THE FIRST SENTENCE DELETE THE WORD "and decisions".

IN PARAGRAPH (4.2.12) IN THE SECOND SENTENCE DELETE THE WORDS "and initial decisions" AND "or decisions".

- 25. ADD PARAGRAPH TO SECTION (4.2):
 - **4.2.14** Notwithstanding any other provision of this Agreement to the contrary, the Architect shall have no authority to order or approve any material deviation from the Contract Documents, whether or not such deviation affects the Contract Sum or other Substantial Completion Date (as defined herein). In the event any such deviation is sought, prior written approval from the Owner's Representative and the Owner must be obtained. The Architect may decide quality issues and may approve nonmaterial deviations from the Contract Documents.

26. IN PARAGRAPH (4.3.4) IN THE FOURTH SENTENCE DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".

IN PARAGRAPH (4.3.4) IN THE LAST SENTENCE DELETE THE WORD "determination" AND SUBSTITUTE THE WORD "recommendation".

- 27. DELETE PARAGRAPH (4.3.10) IN ITS ENTIRETY.
- 28. DELETE PARAGRAPH (4.4.1) AND SUBSTITUTE THE FOLLOWING:

"Claims, disputes and other matters in question between the Contractor and the Owner relating to the execution or progress of the Work or the interpretation of the Contract Documents shall be initially referred in writing to the Architect for a recommendation."

29. IN PARAGRAPH (4.4.2) AFTER "(2)" ADD THE WORD "recommend" AND CHANGE THE WORD "reject" TO "rejecting".

IN PARAGRAPH (4.4.2) AFTER "(3)" ADD THE WORD "recommend" AND CHANGE THE WORD "approve" TO "approving".

IN PARAGRAPH (4.4.2) AT THE END OF THE SENTENCE DELETE THE WORD "resolve" AND ADD THE WORDS "make recommendation on".

- 30. IN PARAGRAPH (4.4.3) DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".
- 31. IN PARAGRAPH (4.4.4) IN THE LAST SENTENCE DELETE THE WORDS "either reject or approve the Claim" AND SUBSTITUTE THE WORDS "provide a recommendation regarding the Claim in accordance with Paragraph 4.2.2".

IN PARAGRAPH (4.4.4) AT THE END OF THE LAST SENTENCE DELETE THE WORDS "in whole or in part."

- 32. DELETE PARAGRAPHS (4.4.5) AND (4.4.6) IN THEIR ENTIRETY.
- **33. IN PARAGRAPH** (<u>4.4.8</u>) **DELETE THE WORD** "resolution" **AND SUBSTITUTE THE WORDS** "final recommendation".

IN PARAGRAPH (4.4.8) AFTER THE WORD "Architect," ADD THE WORD "or".

IN PARAGRAPH (4.4.8) AT THE END OF THE SENTENCE DELETE THE WORDS "or by arbitration".

34. IN PARAGRAPH (4.5.1) DELETE THE WORD "decision" AND SUBSTITUTE THE WORD "recommendation".

IN PARAGRAPH (4.5.1) DELETE THE WORDS "arbitration or".

35. IN PARAGRAPH (4.5.2) **IN THE SECOND SENTENCE DELETE THE WORDS** "a demand for arbitration" **AND SUBSTITUTE THE WORDS** "legal or equitable proceedings".

IN PARAGRAPH (4.5.2) **AFTER THE WORDS** "proceed in advance of " **DELETE THE WORDS** "arbitration or".

36. IN PARAGRAPH (4.5.3) DELETE THE FIRST SENTENCE.

- 37. DELETE SECTION (4.6) IN ITS ENTIRETY.
- 38. IN PARAGRAPH (5.2.1) DELETE THE FIRST SENTENCE AND SUBSTITUTE:

"The subcontractors/suppliers listed by the Contractor on the Major Subcontractor/Supplier List (submitted with the Bid) shall not be changed without the written consent of the Owner."

IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE DELETE THE WORDS "Architect will" AND SUBSTITUTE THE WORDS "Owner's Representative will".

IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE AFTER THE WORDS "promptly reply to" ADD THE WORDS "any request made by".

IN PARAGRAPH (5.2.1) IN THE SECOND SENTENCE AFTER THE WORDS "any such proposed" ADD THE WORDS "change in".

IN PARAGRAPH (5.2.1) IN THE LAST SENTENCE DELETE THE WORDS "Owner or Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".

IN PARAGRAPH (5.2.1) IN THE LAST SENTENCE DELETE THE WORD "promptly" AND ADD THE WORDS "within 10 calendar days (of receipt of written request for such change from the Contractor)".

- **39. IN PARAGRAPH** (6.2.2) **BEFORE THE WORD** "Architect" **ADD THE WORDS** "Owner and".
- **40.** IN PARAGRAPH (6.3.1) DELETE THE WORD "Architect" AND SUBSTITUTE THE WORD "Owner".
- **41. IN PARAGRAPH** (7.2.1) **DELETE THE WORDS** "the Architect" **AND SUBSTITUTE THE WORDS** "the Owner's Representative".

ADD THE FOLLOWING PARAGRAPHS TO SECTION (7.2):

- **7.2.3** A Change Order shall include all of the Contractor's costs associated therewith.
- **7.2.4** The Contractor shall not accept any request for a Change Order from any person other than the Owner and may not perform any work asserted to constitute a change in the Work until the Owner has approved the Change Order in writing, unless the Owner authorizes the Contractor, in writing, to proceed with a change prior to the Owner's final approval. Notwithstanding anything to the contrary herein, the Contractor shall not charge for overtime services in the performance of any Change Order Work, unless the Owner has specifically authorized overtime in writing. Owner may competitively bid changes in the Work and Contractor, Subcontractor and suppliers shall provide Owner with all documents Owner requests to facilitate such competitive bidding of changes in the Work.
- **7.2.5** There shall be no change in the Work, whether an alteration or addition to the Contract Sum or to any amounts due under the Contract Documents or to a change in the Contract Time, unless and until such alteration or addition has been authorized by a written Change Order executed and issued in accordance and compliance with the requirements with this Article 7 or by written authorization to proceed with such change in the Work signed by the Owner or as otherwise provided pursuant to the Contract Documents. The requirements set forth in this Paragraph 7.2.5 are of the essence. No claim that the Owner has been unjustly enriched by any alteration or addition to the Work, whether or not any such unjust enrichment to the Work or to the Owner in fact exists, shall form the basis of any claim for an increase in any amount due under the Contract Documents or a change in the Contract Time, and the terms of a fully-executed Change Order shall be conclusive.

- **42. IN PARAGRAPH** (7.3.1) **DELETE THE WORDS** "the Architect" **AND SUBSTITUTE THE WORDS** "the Owner's Representative".
- **43. IN PARAGRAPH** (7.3.4) **DELETE THE WORDS** "the Architect" **AND SUBSTITUTE THE WORDS** "the Owner's Representative".
- 44. IN PARAGRAPH (7.3.6) IN THE FIRST SENTENCE DELETE THE WORD "determined" AND SUBSTITUTE THE WORD "recommended".
- **45. IN PARAGRAPH** (7.3.7) **IN THE FIRST SENTENCE AFTER THE WORD** "Architect" **ADD THE WORDS** "and the Owner's Representative".
- **46. IN PARAGRAPH** (<u>7.3.8</u>) **DELETE THE WORDS** "the Architect" **AND SUBSTITUTE THE WORDS** "the Owner's Representative".
- **47. IN PARAGRAPH** (<u>**7.3.9**</u>) **DELETE THE WORD** "determination" **AND SUBSTITUTE THE WORD** "recommendation".
- **48. IN PARAGRAPH** (<u>**8.1.3**</u>) **DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORDS** "Owner's Representative".
- 49. ADD THE FOLLOWING PARAGRAPHS TO SECTION (8.2).
 - **8.2.4** All work shall be "Substantially Complete" as required by the **Instructions to Bidders** and the **Agreement Between Owner and Contractor.**
 - **8.2.5** It is further agreed that said completion schedule is reasonable, and the Contractor shall prosecute said work regularly, diligently and continuously at such rate of progress as will insure full completion thereof within the time specified.
 - **8.2.6** Provided, however, the following exceptions:
 - .1 Any preference, priority or allocation order duly issued by the United States Government.
 - Contractor, including acts of God, or of a public enemy, acts of the Owner, acts of another Contractor in performance of a separate contract with the Owner, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather. The criteria on which the unusually severe weather shall be based is the average precipitation/temperatures received in the project area, as recorded over a period of the last five (5) years at the local area United States Weather Station. Any extension of time due to unusually severe weather must be requested by the Contractor on the basis of documented records of the actual precipitation/temperatures during the contract time period, compared with the normal/average for the area. Also, the criteria shall include the number of excessive precipitation or extreme cold days (i.e., days in which the temperature would adversely affect the type of work being constructed) over the same period and whether or not the Contractor's force worked on said days or stage of construction was affected.
 - .3 Any delays of subcontractors occasioned by any of the causes specified in this paragraph.
 - **8.2.7** Provided further that the Contractor shall, within seven (7) days from the beginning of any such delay during the performance of the Contract, notify the Owner's Representative in writing of the alleged cause of such delay.
- **50. IN PARAGRAPH (8.3.1) DELETE THE WORDS** "and arbitration".

IN PARAGRAPH (8.3.1) DELETE THE WORD "determine" AND SUBSTITUTE THE WORD "recommend".

51. DELETE PARAGRAPH (9.2.1) AND SUBSTITUTE THE FOLLOWING:

"Before the first Application for Payment, the Contractor shall submit to the Owner's Representative a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Architect and Owner's Representative may require. This schedule, unless objected to by the Architect and Owner's Representative, shall be used as a basis for reviewing the Contractor's Applications for Payment."

52. IN THE FIRST SENTENCE OF (9.3.1), CHANGE "ten" TO "forty five".

IN PARAGRAPH (9.3.1) IN THE FIRST SENTENCE DELETE THE WORD "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".

ADD THE FOLLOWING TO THE END OF PARAGRAPH (9.3.1):

Payment requests shall consist of AIA Documents #702 "Application and Certificate for Payment"; AIA #703 "Continuation Sheet"; Contractors Affidavit of Payment to Subcontractors and Suppliers; Weekly Workforce Reports; Certified Payroll Form; and Waivers of Lien. (Waivers of Lien are required from the general contractor in the full amount of the current payment application, and from all subcontractors, suppliers, or workers who provide more than \$10,000 of project material/labor of the Work. The waiver shall be in the amount(s) listed in the Contractor's Affidavit.) For final payment, the general contractor shall also provide a Waiver of Lien in the full amount of the contract price.

The Waiver of Lien and Contractor Affidavit forms used shall be the Peoria Park District's standard form(s): 1) "Final Waiver of Lien" (for general contractors), 2) "Waiver of Lien - General Contractor's Partial To Cover Only Certain Payments", 3) "Sub-Contractor's Final Waiver of Lien", 4) "Waiver of Lien - Sub-Contractor's Partial To Cover Only Certain Payments, and 5) "Contractor's Affidavit". (These forms are included in the Project Manual, and are the required Waiver of Lien forms for the project.)

(If the Contractor is unable to provide the required sub-contractor waiver at the time the application for payment is submitted (preferred method) alternatively, it may be provided at the time that payment is delivered by the District. If the sub-contractor waiver(s) still cannot be provided at that time, the District will provide "two-party" checks in which the Contractor and the sub-contractor are named jointly as payees.)

Format of AIA #703 shall follow that of "Schedule of Values". (See Division 01000 Article IV.) All payment requests shall reflect retainage in the amount of 10% of completed work.

- **53. IN PARAGRAPH** (<u>**9.3.1.1**)</u> **DELETE THE WORDS** "or by interim determination of the Architect, but not yet included in Change Orders".
- 54. ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (9.3.1):
 - **9.3.1.3** Upon Substantial Completion, the Owner will pay 95% percent of the amount due to the Contractor on account.
 - **9.3.1.4** Monthly progress payments will be made by the Owner on projects lasting more than sixty days (from award of the bid to the Substantial Completion date given in the Supplementary Instructions to Bidders).

- 55. ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (9.3.2):
 - **9.3.2.1** Material stored on site will be considered for payment only when a Schedule of Stored Materials with appropriate values accompany the payment request as an attachment.
 - **9.3.2.2** All material and work covered by partial payments made shall thereupon become the sole property of the Owner, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of material and work upon which payments have been made or the restoration of any damaged work, or as a waiver of the contract
- 56. IN PARAGRAPH (9.4.1) DELETE THE WORDS "Architect" AND "Architect's" AND SUBSTITUTE THE WORDS "Owner's Representative" AND "Owner's Representative's".
 - IN PARAGRAPH (9.4.1) DELETE THE PHRASE "with a copy to the Contractor".
- 57. IN THE FIRST SENTENCE OF PARAGRAPH (9.4.2) DELETE THE WORD "Architect".
 - IN THE FIRST SENTENCE OF PARAGRAPH (<u>9.4.2</u>) AFTER THE WORDS "Architect's" ADD THE WORDS "and Owner's Representative's".
 - IN THE FOURTH SENTENCE OF PARAGRAPH (<u>9.4.2</u>) DELETE THE WORDS "Architect has" AND SUBSTITUTE THE WORDS "Owner's Representative and Architect have".
- 58. IN PARAGRAPH (9.5.1) DELETE THE WORDS "Architect" AND "Architect's" AND SUBSTITUTE THE WORDS "Owner's Representative AND "Owner's Representative's".
- 59. IN PARAGRAPHS (9.6.1, 9.6.3, AND 9.6.4) DELETE THE WORDS "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".
- **60. IN PARAGRAPH** (<u>**9.7.1**)</u> **DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORDS** "Owner's Representative".
 - **IN PARAGRAPH (9.7.1) DELETE THE WORDS** "or awarded by arbitration".
- **61. IN PARAGRAPH** (<u>**9.8.2**</u>) **DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORDS** "Owner's Representative".
- **62. IN THE FIRST SENTENCE OF PARAGRAPH (9.8.3) DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORDS** "Owner's Representative assisted by the Architect".
 - IN THE SECOND AND THIRD SENTENCES OF PARAGRAPH (9.8.3) DELETE THE WORDS "Architect's" and "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".
- **63. IN PARAGRAPH** (<u>**9.8.4**)</u> **DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORDS** "Owner's Representative".
- **64. IN PARAGRAPH** (<u>**9.9.1**)</u> **DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORDS** "Owner's Representative".
- 65. IN PARAGRAPH (9.10.1) IN THE FIRST SENTENCE AFTER THE FIRST TWO APPEARANCES OF THE WORD 'Architect' ADD THE WORDS "and Owner's Representative".

IN PARAGRAPH (9.10.1) DELETE THE THIRD AND FOURTH APPEARANCES OF THE WORD "Architect" and "Architect's" AND SUBSTITUTE THE WORDS "Owner's Representative's".

IN PARAGRAPH (9.10.1) AFTER THE FIFTH APPEARANCE OF THE WORD "Architect's" ADD THE WORDS "and Owner's Representative's".

IN THE LAST SENTENCE OF PARAGRAPH (9.10.1) DELETE THE WORD "Architect's" AND SUBSTITUTE THE WORDS "Owner's Representative's".

- **66. IN PARAGRAPH** (<u>**9.10.2**</u>) **DELETE THE WORD** "Architect" **AND SUBSTITUTE THE WORD** "Owner's Representative".
- 67. ADD THE FOLLOWING SUB-PARAGRAPH TO PARAGRAPH (9.10.2):
 - **9.10.2.1** When all items including items noted within Division 1000 General Requirements are found to be complete and in conformance with the Contract Documents, a final payment will be issued
- **68.** IN PARAGRAPH (<u>9.10.3</u>) DELETE THE WORD "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".
- **69. IN PARAGRAPH** (11.1.1) **IN THE FIRST SENTENCE AFTER THE PHRASE** "as will protect the Contractor" **ADD THE WORDS** "Architect and Owner".
- **70. IN PARAGRAPH** (<u>11.1.2</u>), **IN THE FIRST SENTENCE DELETE THE WORDS** "limits of liability specified in the Contract Documents" **AND SUBSTITUTE THE WORDS** "limits required in 'Attachment A Project Specific Insurance Requirements' (which is included as the last section of the Project Manual and the requirements therein shall be made part of the Contract Documents),".

IN PARAGRAPH (11.1.2) AFTER THE FIRST SENTENCE ADD:

"In addition, if any of the work occurs within fifty feet of an active railroad line and the Contractor's general liability coverages provide for exclusions of coverage when working on or near a railroad, the Contractor shall provide a separate Railroad Protective Liability Insurance Policy naming the railroad as the insured party, with the coverage limits required by that railroad."

71. IN PARAGRAPH (11.1.3), AFTER THE WORDS "Certificates of insurance" ADD THE WORDS "and endorsements to the insurance policy(s) which are".

IN PARAGRAPH (11.1.3) **AFTER THE WORDS** "acceptable to the Owner" **ADD THE WORDS** "and naming the Owner, their agents and consultants as additional insured".

ADD THE FOLLOWING SUB-PARAGRAPHS TO PARAGRAPH (11.1)

- **11.1.4** The Contractor may, at his option, furnish Owner's Protective Liability Insurance in lieu of naming the Owner Additional Insured on the Contractor's policy, as required above. This insurance shall protect the Owner from claims as set forth in Paragraph 11.1.1 of the General Conditions, and to the limits required herein, as shown in "Attachment A".
- 11.1.5 The Contractor shall furnish two copies of each of the required Certificates or Endorsements for each copy of the Agreement which shall specifically set forth evidence of all coverage required by the Contract Documents. The form of the Certificate(s) or Endorsement(s) shall be those as required in "Attachment A". The Contractor shall also furnish to the Owner copies of any

endorsements which limit coverage, or are subsequently issued amending coverage or limits of coverage.

- 72. DELETE PARAGRAPHS (<u>11.3.1</u>, <u>11.3.2</u>, AND <u>11.3.3</u>) IN THEIR ENTIRETY.
- 73. DELETE PARAGRAPH (11.4.1) AND SUBSTITUTE:

"If the work of the project is being completed by one general or prime contractor rather than multiple prime contractors, the Contractor shall purchase and maintain property insurance upon the entire Work at the site to the full replacement value thereof. Such insurance shall be in a company or companies against which the Owner has no reasonable objection. This insurance shall include the interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Work.

- **74. AT THE END OF PARAGRAPH** (11.4.1.1) **ADD THE FOLLOWING SENTENCE:** "The form of policy for this coverage shall be "Completed Value".
- 75. DELETE PARAGRAPH (11.4.1.2) IN ITS ENTIRETY.
- 76. DELETE PARAGRAPH (11.4.1.3) IN ITS ENTIRETY AND SUBSTITUTE:

"If by the terms of this insurance any mandatory deductibles are required, or if the Contractor should elect, with the concurrence of the Owner, to increase the mandatory deductible amounts or purchase this insurance with voluntary deductible amounts, the Contractor shall be responsible for payment of the amount of all deductibles in the event of a paid claim. If separate contractors are added as insureds to be covered by this policy, the separate contractors shall be responsible for payment of appropriate part of any deductibles in the event claims are paid on their part of the Project."

- 77. DELETE PARAGRAPHS (<u>11.4.3</u>, <u>11.4.4</u>, AND <u>11.4.5</u>) IN THEIR ENTIRETY.
- 78. DELETE PARAGRAPH (11.4.6) AND SUBSTITUTE:

"The Contractor shall file two certified copies of all policies with the Owner before exposure to loss can occur. If the Owner is damaged by the failure of the Contractor to maintain such insurance and to so notify the Owner, then the Contractor shall bear all reasonable costs properly attributable thereto.

- 79. DELETE PARAGRAPHS (11.4.7, 11.4.8, 11.4.9, AND 11.4.10) IN THEIR ENTIRETY.
- 80. DELETE PARAGRAPH (11.5.1) AND SUBSTITUTE:

"The Contractor shall furnish a Performance Bond and a separate Labor and Material Payment Bond, each for one hundred percent (100%) of the Contract Sum. Form of these bonds shall be as provided by the Owner in the Project Manual and no other form will be accepted. The Surety shall be authorized to do business in the State of Illinois and be acceptable to the Owner.

- 81. IN PARAGRAPH (12.1.1) DELETE THE WORD "Architect's" AND SUBSTITUTE WORDS "Owner's Representative's and Architect's". DELETE THE WORD "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".
- **82. IN PARAGRAPH** (12.1.2) **AFTER THE WORD** "Architect" **ADD THE WORDS** "and Owner's Representative".
- **83. IN PARAGRAPH** (12.2.1.1) **AFTER THE WORD** "Architect" **ADD THE WORDS** "and Owner's Representative".

- **84. IN PARAGRAPH** (13.5.4) **AFTER THE WORD** "Architect" **ADD THE WORDS** "and Owner's Representative".
- 85. IN PARAGRAPH (14.1.1.3) DELETE THE WORD "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".
- **86. IN PARAGRAPH** (14.2.2) **DELETE THE PHRASE** ", upon certification by the Architect that sufficient cause exists to justify such action,".
- 87. IN PARAGRAPH (14.2.4) DELETE THE WORD "Architect" AND SUBSTITUTE THE WORDS "Owner's Representative".
- 88. DELETE PARAGRAPH (14.4.3) IN ITS ENTIRETY AND SUBSTITUTE:

In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination. In no event, however, will such amounts exceed the Contract Sum reduced by the amount of prior payments except for increases pursuant to the claims procedure in the Contract Documents. Subcontracts, subsubcontracts, and purchase orders will contain appropriate provisions for termination for convenience under this Paragraph 14.4.

89. ADD THE FOLLOWING ARTICLE 15: LABOR, SAFETY AND WAGE STANDARDS TO THE GENERAL CONDITIONS OF THE CONTRACT:

ARTICLE 15 LABOR, WAGE, SAFETY, AND OTHER STANDARDS

15.1 LABOR STANDARDS. All employers shall comply with the Employment of Illinois Workers on Public Works Act [30 ILCS 570/1 to 570/7].

15.2 WAGE STANDARDS.

- 15.2.1 PREVAILING WAGE ACT: Wages and benefits to employees shall comply with all Federal and State of Illinois statutes pertaining to public works projects and specifically: Wages of Employees on Public Works [820 ILCS 130/1 12].
- 15.2.2 Not less than the prevailing rate of wages as determined by the Park District or the Department of Labor shall be paid to all laborers, workers and mechanics performing work under this contract. All contractor's bonds shall include a provision as will guarantee the faithful performance of such prevailing wage clause as provided by this bid specification or contract.
- 15.2.3 The terms "general prevailing rate of hourly wages", "general prevailing rate of wages" or "prevailing rate of wages" when used in this Act mean the hourly cash wages plus fringe benefits for training and apprenticeship programs approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training, health and welfare, insurance, vacations and pensions paid generally, in the locality in which the work is being performed, to employees engaged in work of a similar character on public works.

15.2.4 PREVAILING WAGE ACT/FOIA

Contractors and subcontractors shall submit certified payroll on a monthly basis to the Park District in compliance with requirements of 820 ILCS 130/5. These records will be kept by the Park District for three years and may be reviewed by others through the Freedom of Information Act (FOIA). The Park District will exclude employee's address, telephone number, and social security number from public inspection.

15.3 SAFETY STANDARDS.

- **15.3.1** PROTECTION OF PERSONS AND PROPERTY: The Contractor and his subcontractors shall, at all times, comply with applicable provisions of Federal, State and Local laws.
 - 15.3.1.1 The Contractor and his sub-contractors shall have written programs complying with Occupational Safety and Health Administration standards and/or Illinois Department of Labor requirements including, but not limited to the following: hazardous communications, hearing conservation, respirator use, confined space entry, scaffolding, ladders, ventilation, flammable and combustible liquids, and lockout/tagout. The Contractor shall submit documentation of their programs at the request of the Owner's Representative, or Occupational Safety and Health Administration and/or Illinois Department of Labor officials.

15.4 EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION/SEXUAL HARASSMENT

- **15.4.1** During the performance of the contract, the contractor agrees to the following:
 - 15.4.1.1 That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are under-utilized and will take appropriate affirmative action to rectify any such under-utilization.
 - That, if it hires additional employees in order to perform his contract or any portion thereof, it will determine the availability (in accordance with the Rules and Regulations of the Illinois Department of Human Rights) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not under-utilized.
 - 15.4.1.3 That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability or an unfavorable discharge from military service.
 - **15.4.1.4** That it will have a written sexual harassment policy to include at the minimum, the following:
 - **15.4.1.4.1** a definition of sexual harassment under the law;
 - **15.4.1.4.2** a description of sexual harassment utilizing examples;
 - **15.4.1.4.3** a formalized complaint procedure;
 - **15.4.1.4.4** a statement of victim's rights;
 - directions on how to contact the Illinois Department of Human Rights. Outof-state companies must provide directions for filing with the enforcement agency within their state. Companies that issue a standard policy for all business locations must prepare an addendum providing directions on how to contact the appropriate enforcement agency; and

- **15.4.1.4.6** A recitation that there cannot be any retaliation against employees who elect to file charges.
- In addition, it is recommended that the employer post a copy of the sexual harassment policy in a prominent and accessible location and distribute it in a manner to assure notice to all employees on an annual basis.
- 15.4.1.4.8 The Illinois Human Rights Act specifically provides that all documents may meet, but cannot exceed, the sixth grade literacy level. Therefore, the employers sexual harassment policy must be stated in plain language and in "laymen's terms".
- 15.4.1.5 That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the contractor in its efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- **15.4.1.6.** That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
- **15.4.1.7.** That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
- 15.4.1.8. That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.
- In the event of the contractor's non-compliance with the provisions of the Illinois Human Rights Act, the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporation, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulations.

END OF SUPPLEMENTARY GENERAL CONDITIONS

SECTION 011000 - GENERAL

A. SUMMARY OF THE WORK

- The Work covered under this Contract consists of that work described by the Invitation to Bid, the Instructions/Supplemental Instructions to Bidders, the Bid/Proposal Form, the General/Supplemental Conditions of the Contract, these General Requirements, the Plans, and the Technical Specifications.
- 2. The Contractor shall be responsible for all items incidental to the scope of the Work intended by the bidding documents as per A.1 above, including but not limited to, expenses incurred by the requirements of various Sections of Division 010000, unless specifically stated otherwise berein
- 3. Changes to the Work as required by approved Change Orders shall be at the expense of the Owner, however, requests for additional payments made after the fact will not be considered.

B. OCCUPANCY BY OWNER.

1. The Owner reserves the right to occupy any portion of the project before it has been entirely completed, with the understanding that such occupancy shall in no way constitute acceptance of the work, in whole or in part, or of any work performed under the Contract, provided that such occupancy does not substantially interfere with completion of the work by the Contractor.

SECTION 012300 - ALTERNATES

- A. Alternates to the Bid are set forth in the Supplementary Instructions to Bidders and are listed in the Bid Form.
 - 1. Accepted Alternates have been incorporated into the Agreement.
- B. Bid Alternate pricing, as set forth in the Supplementary Instructions to Bidders and the Bid Form, shall be good for a minimum of 90 calendar days after the date of the Bid opening, and the Owner reserves the right to accept Alternates up to that time.

SECTION 012600 - CHANGE ORDERS

A. OWNER'S REPRESENTATIVE'S FIELD ORDERS

- 1. From time to time during progress of the Work the Owner's Representative may issue an "Owner's Representative's Field Order" which interprets the Contract Documents or orders minor changes in the Work without change in Contract Sum or Contract Time.
- Should the Contractor consider that a change in Contract Sum or Contract Time is required he shall submit an itemized proposal to the Owner's Representative <u>immediately and before proceeding with the Work</u>. If the proposal is found to be satisfactory and in proper order, the Field Order will be superseded by a Change Order.

B. PROPOSAL REQUESTS

1. From time to time during the progress of work the Owner's Representative may issue a "Proposal Request" for an itemized quotation for changes to the Work which may result in a change to the Contract Sum or Contract Time. This document **is not a Change Order** and is not a direction to proceed with the changes described therein.

C. CHANGE ORDERS

- 1. Change Orders are written documents describing changes in the Work, in the Contract Sum, in the Contract Time of Completion, or any combination thereof. Change Orders must be signed by both the Owner and the Architect/Owner's Representative <u>prior</u> to proceeding with the Work subject to the Change Order. REQUESTS FOR "EXTRA'S" OR OTHER ADDITIONAL PAYMENTS OVER AND ABOVE THE CURRENT CONTRACT SUM WILL NOT BE CONSIDERED WITHOUT THE PRIOR, WRITTEN APPROVAL OF BOTH THE OWNER AND THE OWNER'S REPRESENTATIVE.
 - a) INITIATION. Change Orders may be initiated by a "Field Order" or "Proposal Request" per paragraphs "A" and "B" above. In addition, either the Contractor or Owner (or Owner's Representative) may initiate a Change Order through:
 - 1) Discovery of a discrepancy in the Contract Documents,
 - 2) Discovery of concealed conditions or,
 - 3) Discovery, during the course of the Work, of methods of accomplishing the Work in a better or more economical manner.
 - b) PROCESSING CHANGE ORDERS.
 - 1) Change Orders will be dated and will be numbered in sequence.
 - 2) The Change Order will describe the change or changes, or will refer to the Proposal Requests or Field Orders involved.
 - 3) The Owner's Representative will issue three copies of each Change Order to the Contractor.
 - 4) The Contractor promptly shall sign all three copies and return them to the Owner's Representative.
 - 5) The Owner and Owner's Representative will retain two signed copies in their files, and will forward one signed copy to the Contractor.
 - 6) Should the Contractor disagree with the stipulated change in Contract Sum or change in Contract Time of Completion, or both:
 - The Contractor promptly shall return all three of the Change Orders, unsigned by him, to the Owner's Representative with a letter signed by the Contractor stating the reason or reasons for the Contractor's disagreement.
 - ii) The Contractor's disagreement with the Change Order shall not in any way relieve the Contractor of his responsibility to proceed with the change as ordered and to seek settlement of the dispute under pertinent provisions of the Contract Documents

SECTION 012900 - PAYMENT PROCEDURES

- A. SCHEDULE OF VALUES
 - 1. Prior to the start of construction, submit a proposed Schedule of Values to the Owner's Representative which shows a detailed breakdown of the agreed Contract Sum showing values allocated to each of the various parts of the Work, as specified herein and in other provisions of the Contract Documents.
 - The Schedule of Values is required to be compatible (in the same format) with the Application for Payment "Continuation Sheet", AIA G703.
 - 2. If not requested to submit additional data or to modify the submitted Schedule of Values within ten (10) days of submittal, the initially submitted Schedule shall be deemed approved.

B. APPLICATIONS FOR PAYMENT

- Progress payments will be made only if specifically called for in the Agreement. In all other cases, the Contractor may submit an Application for Payment (3 copies) upon Substantial Completion (95% of the Contract Sum), with the balance of the Contract Sum to be paid at Final Completion.
 - a) Paragraph #52 of the Supplementary General Conditions defines the documentation required for each payment request.
 - b) Applications for payment shall be delivered to the Owner's Project Manager at:

Department of Planning, Design, and Construction Peoria Park District Bradley Park Equipment Service 1314 N. Park Road Peoria, Illinois 61604

SECTION 013100 - PROJECT MEETINGS

- A. PRECONSTRUCTION CONFERENCE
 - 1. Conduct a preconstruction conference prior to the start of the Work, at the location of the Work. Provide attendance by the designated personnel of the Contractor, including Sub-contractor's and/or suppliers of major components of the Work, if requested by the Owner's Representative.
 - AGENDA. Discuss items of significance that could affect progress including such topics as:
 - 1) Tentative construction schedule.
 - 2) Critical Work sequencing.
 - 3) Designation of responsible personnel.
 - 4) Procedures for processing field decisions and Change Orders.
 - 5) Procedures for processing Applications for Payment.
 - 6) Distribution of Contract Documents.
 - 7) Submittal of Shop Drawings, Product Data and Samples.
 - 8) Preparation of record documents.
 - 9) Use of the premises.
 - 10) Office, Work and storage areas.
 - 11) Equipment deliveries and priorities.
 - 12) Safety procedures.
 - 13) First aid.
 - 14) Security.
 - 15) Housekeeping.
 - 16) Working hours.
 - 17) Permits and Permitting Agency Requirements

B. PROJECT MEETINGS

- Project Meetings will be held per the schedule determined at the Preconstruction Conference, or as needed for proper coordination and administration of the project.
 - a) AGENDA
 - 1) Review and correct or approve minutes of the previous progress meeting.
 - 2) Review progress of the Work since last meeting, including status of submittals for approval.
 - 3) Identify problems which impede planned progress.
 - 4) Develop corrective measures and procedures to regain planned schedule.
 - 5) Complete other current business.

C. REPORTING

1. Distribute copies of the minutes of each meeting to each party present, and to other parties who should have been present, no later than three business days after each meeting.

SECTION 013300 - SUBMITTALS

- A. Requirements for shop drawings, samples, mock-ups, product data, etc., relative to specific elements or components of the work are called out in the various sections of the Technical Specifications.
 - 1. Submit items to allow for Owner's Representative's review and approval, potential re-submission if full approval is not given, ordering, delivery, fabrication time, etc., so as to allow the Work to proceed in a timely manner and in conformance with the project schedule.

B. OTHER CONTRACTOR SUBMITTALS

- 1. Unless otherwise modified the Contractor shall also submit:
 - a) A "bar chart" type proposed construction schedule, within ten days after award of the Bid.
 - b) Other submittals as required by other section of Division 010000.
- C. Submission of the required Bonds and Certificate of Insurance are to be made prior to the Owner's issuance of a Notice to Proceed.

SECTION 014000 - QUALITY/REGULATORY REQUIREMENTS

- A. GENERAL: Contractors shall comply with all laws, rules and regulations governing the work.
 - When Contractor observes that contract documents are at variance with specified codes, notify Owner's Representative in writing immediately.
 Owner's Representative will issue all 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 Owner's Representative, 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.

B. SAFETY:

- 1. Comply with all federal, state, and local laws, rules and regulations governing the installation/construction of the work.
- 2. Develop and utilize safety program and training for workmen and sub-contractor employees.

C. TESTING

- TESTS AND INSPECTIONS REQUIRED
 - a) Provide all tests and inspections required by governmental agencies having jurisdiction, as required by provisions of the Contract Documents and/or as specifically required by sections of the Technical Specifications.
- 2. PAYMENT FOR TESTING
 - a) Include within the Contract Sum an amount sufficient to cover all testing, re-testing, and inspections required by the Contract documents and/or the Technical Specifications. Additionally pay for all testing and inspections required by all governmental agencies having jurisdiction.
 - 1) The Owner will pay for any testing and inspecting specifically requested by the Owner's Representative which are over and above those described in Paragraph 1.a) above.
 - 2) When initial tests (over and above those defined by 1.a) above) requested by the Owner's Representative indicate non-compliance with the Contract Documents, costs of initial tests associated with that non-compliance will be deducted by the Owner from the Contract Sum, and subsequent retesting occasioned by the non-compliance shall be performed by the same testing laboratory and the costs thereof shall be paid by the Contractor.
- 3. WAIVER OF INSPECTION AND/OR TESTS
 - Specified inspections and/or tests may be waived only by the specific written approval of the Owner's Representative, and <u>such waivers</u> will be expected to result in credit to the Owner equal to normal cost of such inspection and/or test.

SECTION 014200 - REFERENCE STANDARDS AND DEFINITIONS

- A. Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entity's construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - Where copies of standards are needed for performance of a required construction activity the Contractor shall obtain copies directly from the publication source.
 - 2. Although copies of standards needed for enforcement of requirements may be included as part of required submittals the Architect reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.
- B. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where such acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association standards generating organization authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the Encyclopedia of Associations, published by Gale Research Co. available in most libraries.
- C. Definitions: Architect, Owner's Representative, and Owner's Project Manager
 - 1. <u>ARCHITECT:</u> The Architect shall be the person or entity designated by the Owner as the Owner's Representative and shall be identified as such in the Agreement Between Owner and Contractor, and is referred to throughout the Contract Documents as if singular in number and masculine in gender.
 - 2. <u>OWNER'S REPRESENTATIVE</u>: The duties of the Owner's Representative as listed in the Project Manual, include but are not limited to, construction phase observation and technical administration services.
 - a) LIMITS OF AUTHORITY: The Owner's Representative shall be authorized to provide approvals and interpretations concerning the plans, specifications and progress of the Work as bid, but is not authorized to change the scope of the Work on behalf of the Owner.
 - 3. <u>OWNER'S PROJECT MANAGER</u>: The Owner's Project Manager will represent, act on behalf of, and provide interface between the Owner and the Contractor in respect to contract administration and/or other matters which affect the scope of the Work.
 - Unless defined otherwise in the Project Manual, the Owner's Project Manager shall be a designated member of the Planning, Design, and Construction Division of the Peoria Park District.
 - b) The Owner's Project Manager will also be the Owner's Representative and will provide construction phase observation and technical administration services, if a consultant Architect has not been engaged to do so, by the Owner.

SECTION 015000 - TEMPORARY FACILITIES & CONTROLS

- A. MOBILIZATION
 - 1. Furnish all labor, tools, materials, equipment, and incidentals necessary for preparatory work.
 - 2. Provide and establish personnel, equipment, supplies, materials, offices or buildings, and other facilities necessary to work on the project.
 - 3. Demobilize all of the above and remove temporary facilities at the completion of the project.

B. BARRIERS, PROTECTION OF SITE AND PROPERTY

- 1. GENERAL
 - a) Owner's improvements to remain, existing utilities, as well as adjacent site improvements shall be protected from damage by barriers, guards and coverings. Damaged work shall be replaced or repaired to condition prevailing at time of signing of contract, at no additional cost to Owner.
 - b) Provide 6' high, continuous chain link or orange plastic (used materials acceptable) construction fence to prohibit unauthorized personnel or public entry from the site of the Work. (Substitutions may be considered; submit request in writing to the Owner's Representative.)
 - c) Contractor shall provide, erect and maintain additional planking, fences, protective canopies, railings, shoring, lights, warning signs, etc., as needed for the protection of adjacent property and the public.

2. LANDSCAPE PROTECTION

- a) All live, healthy trees, shrubs, etc. on the site or on the street fronts of the site, not specified to be removed and not interfering with installation of new work required hereunder, shall be protected against injury from construction operations.
- b) All shade trees which are to remain and which are liable to damage during the building operations, shall be properly boxed and protected from damage during the course of construction work as directed by the Park District. No site-related work shall occur until the required tree protection (fencing, boxing, etc.) has been installed and approved by the Owner or his representative.
 - LIQUIDATED DAMAGES: The Owner reserves the right to charge the Contractor for damage to existing trees, and to deduct
 the charges from the amounts due the Contractor, based on the following schedule:
 - aa) Broken limbs 1" or over in diameter:

Trenching or grading within the tree dripline or 20' from the trunk, whichever is less, of

trees 4" or over in caliper diameter:

Damage to tree trunks, including "barking",

cc) Damage to tree trunks, inclunicking, gouging, etc.

\$50 per caliper inch of limb

\$100 per tree/per foot within dripline, or within 20' minimum if applicable

\$150 per caliper inch of tree, per each injury

3. BARRIERS/CONSTRUCTION FENCE MATERIALS

bb)

- a) 2" open mesh chain link fence, 72" high minimum, galvanized, with appropriately sized posts; gates where indicated.
- b) Alternate barrier fencing materials may be acceptable, however, no additional payments will be made on account of approval of alternate barrier/safety fencing materials.
- c) Materials may be new or used, if in serviceable condition.

4. WATCHMAN SERVICE

a) The Owner will not be responsible for loss due to theft or other damage which is not covered under Property Insurance. The Contractor shall make such arrangements for watchman service as he considers necessary and he shall be responsible for all loss or damage of his property, equipment, material, etc., at the site, and he shall make good such damage or loss without any additional cost to the Owner.

5. EXISTING IMPROVEMENTS - PROTECTION

a) The Contractor shall be entirely responsible for all injuries to water pipes, electric conduits or cables, drains, sewers, gas mains, poles, telephones and telegraph lines, streets, pavements, sidewalks, curbs, culverts, retaining walls, building walls, foundation walls, or other structures of any kind met with during the progress of the Work, and shall be liable for damages to public or private property resulting therefrom.

C. CONSTRUCTION ACCESS, ROADS, AND PARKING AREAS

1. CONTRACTOR'S USE OF PREMISES

a) The Contractor shall require that all personnel who will enter upon the Owner's property certify their awareness of and familiarity with the requirements of this Section.

2. CONSTRUCTION ACCESS

- To avoid traffic conflict with vehicles of the Owner's employees and customers, and to avoid over-loading of streets and driveways elsewhere on the Owner's property, limit the access of trucks and equipment to the route shown (IF SHOWN) on the Drawings as "Access Route". If access route is not shown on the Drawings, coordinate construction access and routes with the Owner's Project Manager.
- b) Do not permit such vehicles to park on any street or other area of the Owner's property except in the area shown on the Drawings as "Contractor's Parking Area". If not shown on the drawings, the Contractor's Parking Area shall be as designated by the Owner's Project Manager.
- Provide adequate protection for curbs and sidewalks over which trucks and equipment pass to reach the job site.

3. SECURITY

a) Restrict the access of all persons entering upon the Owner's property in connection with the Work to the Access Route and to the actual site of the Work

D. TEMPORARY ENVIRONMENTAL CONTROLS

1. GENERAL

- a) Provide temporary environmental controls at the site of the Work to ensure that construction operations have no harmful effects on adjacent properties and on members of the public who may come in proximity to the Work, and/or the employees of the Owner who are engaged in regular daily tasks and operations and are unable to be relocated to another work site during construction operations.
- b) Owner reserves the right to stop the Work, at the Contractor's expense, until the Contractor provides necessary control measures for the conditions listed below; additionally, the Owner reserves the right to perform or have performed necessary control measures, should the Contractor refuse to do so at the time requested and to deduct the cost of those expenses from the amount due the Contractor.

2. DUST CONTROL

Provide dust control materials to minimize dust from construction operations. Prevent air-borne dust from dispersing into the atmosphere.

3. WATER CONTROL

- a). Control surface water to prevent damage to the project, the site and adjoining properties.
 - Control fill, grading, and ditching to direct surface drainage away from excavations, pits, tunnels, and other construction areas; direct drainage to proper runoff channels or storm drainage utilities.
- b) Provide, operate and maintain hydraulic equipment of adequate capacity to control surface water.
- c) Dispose of drainage water in a manner to prevent flooding, erosion silting, or runoff of silt or sediment or other damage to all portions of the site or to adjoining properties.

4. RODENT CONTROL

- a) Provide rodent control to prevent infestation of construction or storage areas.
 - 1) Use methods and materials which will not adversely affect conditions at the site or on adjoining properties.

5. DEBRIS CONTROL

a) Maintain all areas free of extraneous debris, waste, and rubbish.

6. POLLUTION CONTROL

- a) Prevent contamination of soil, water or atmosphere by the discharge of noxious substances from construction operations.
- b) Provide equipment and personnel, perform emergency measures to contain all spillages, and to remove contaminated soils or liquids.
 - 1) Excavate and dispose of all contaminated earth off-site. Replace with suitable compacted fill and topsoil.
 - Take special measures, as necessary, to prevent harmful substances from entering public waters, including lakes, streams, intermittent drainage channels, and storm or sanitary sewers.
- 7. EROSION CONTROL

c)

- a) Plan and execute construction and earthwork in a manner to control surface drainage from cuts and fills, and from borrow and waste disposal areas, to prevent erosion and sedimentation.
 - 1) Schedule the Work to minimize the areas of bare soil exposed at one time, if possible.
 - 2) Provide temporary control measures such as berms, dikes, and drains to prevent runoff of silt or sediment from the site.
 - 3) Comply with Section 015713.

E. PROJECT IDENTIFICATION AND SIGNAGE

- GENERAL
 - Provide and install project identification sign, if located and/or called out on the Drawings.
- 2. SUBMITTALS
 - a) Provide shop drawing(s) of proposed sign/sign installation to Owner's Representative for approval, prior to installation
- 3. INSTALLATION
 - a) Provide project sign as detailed on Drawings
 - b) If not detailed on Drawings provide project identification sign per the following minimum requirement:
 - Content
 - aa) Name of project
 - bb) Name of Owner
 - cc) Name of Architect(s) and major consultants
 - dd) Names of Contractor and major subcontractors
 - ee) Allow additional 200 characters of text explaining the project
 - 2) Construction
 - aa) Size: 4' x 8'
 - bb) Materials: Min. 5/8" AC DFPA Exterior Plywood, with (2) 4" x 4" x 12' long pressure treated post supports
 - cc) Paint: paint front and back, seal edges, provide content as approved by Owner's Representative. Conform to recognized sign painting standards in selection of paint materials. Use only professional sign painter with three years minimum experience to apply sign graphics and lettering.
 - 3) Install sign in a manner consistent with length of time of construction operations. Remove sign and fill post holes at project completion.

F. FIELD OFFICES

TEMPORARY FACILITIES

Provide and pay for temporary (new, or used if in serviceable condition) facilities and controls needed for the Work, if called out on the Drawings, which may include, but are not necessarily limited to:

- a) Temporary utilities such as heat, water, electricity, and telephone;
- b) Field office for the Contractor's personnel (required if shown on the Drawings; otherwise at the Contractor's option and expense).
 - Conform with requirements for Engineer's Field Office Type B, as defined in Article 646.04 of the Standard Specifications for Road and Bridge Construction - Illinois Department of Transportation.
- c) Sanitary facilities;
- d) Enclosures such as tarpaulins, barricades, and canopies;
- e) Temporary fencing of the construction site;
- f) Project sign.
- 2. Comply with Federal, State, and local codes and regulations.
 - a) Maintain temporary facilities and controls in proper and safe condition throughout the progress of the work. The Contractor is responsible for conformance with all safety codes and regulations for all Work under his jurisdiction, including that of Sub-Contractors.
- 3. Locate temporary facilities as shown on the Drawings, or as approved by the Owner's Representative if not shown on the Drawings.

SECTION 015713 - EROSION & SEDIMENT CONTROL

A. RELATED DOCUMENTS

 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. SUMMARY

- This Section includes the following:
 - a) Site erosion and sediment control
 - b) Silt fencing
 - c) Ditch checks
 - d) Erosion control blankets
 - e) Culvert and inlet protection
 - f) Stabilized entrance
- 2. Related Sections include the following:
 - a) Division 31 Earthwork.
 - b) Division 32 Exterior Improvements.
- 3. Erosion and Sediment Control Statement: The Peoria Park District takes the issue of construction related erosion and sediment control extremely seriously. The Peoria Park District is a community leader in the conservation and protection of our area's natural resources. This project will be watched closely by both staff and citizens for compliance with erosion and sediment control regulations and specifications.

C. QUALITY ASSURANCE

- Materials and methods of construction shall comply with the following standards:
 - a) Illinois Department of Transportation
 - b) City of Peoria

D. PRODUCTS

- Silt Fencing
 - Fabric for silt fencing shall consist of woven or nonwoven filaments of polypropylene, polyester, or polyethylene. Fabric shall be resistant to degradation by ultraviolet light and heat exposure. Fabric shall be rot, insect, and mildew proof, and have a high resistance to tearing.
 - Fabric shall comply with the following physical properties:

aa)	Grab tensile strength (lb) – ASTM D4632	200 (min)
bb)	Grab elongation @ break (%) – ASTM D4632	12
cc)	Burst strength (psi) – ASTM D751	250 (min)
dd)	Trapezoidal tear strength (lb) – ASTM D4533	75
ee)	Width (ft)	3.5 (min)
ff)	Weight (oz/sq. yd) – ASTM D3776	4.0
gg)	Equivalent opening size	30 (nonwoven)

- Ditch Checks
 - a) Ditch checks will consist of silt fencing with the addition of wire reinforcement.

(EOS) sieve no. - Corps of Engrs. CS-02215

b) Wire shall be 9 gauge.

hh)

- c) Alternate: Straw bales may be used in lieu of silt fencing
- 3. Posts

a)

- Posts shall be standard "T" or "U" steel posts or wood with a minimum cross section of 3 square inches. Posts shall be a minimum of 60" in length. Posts shall be driven a minimum of 24" into the ground.
- 4. Erosion Control Blankets
 - a) Excelsior Blanket: Excelsior blanket shall consist of a machine produced mat of wood excelsior of 80% 6" or longer fiber length. The wood from which the excelsior blanket is cut shall be properly cured to achieve adequately curled and barbed fibers.
 - The blanket shall be of consistent thickness, with the fiber evenly distributed over the entire area of the blanket. The excelsior blanket shall be covered on the top side with a 90 day biodegradable extruded plastic mesh netting having an approximate minimum opening of 16 x 16 mm (5/8 x 5/8 in.) to an approximate maximum opening of 50 x 25 mm (2 x 1 in.). The netting shall be substantially adhered to the excelsior blanket by a knitting process using biodegradable thread or by an applied degradable adhesive. The netting shall be substantially adhered to the excelsior by a knitting process using biodegradable thread. The netting shall be entwined with the excelsior blanket for maximum strength and ease of handling.
 - 2) The excelsior blanket shall comply with the following:
 - aa)
 Minimum width, ± 25 mm (1 in.)
 600 mm (24 in.)

 bb)
 Minimum mass ± 10%
 0.34 kg/sm (0.63 lb/sq yd)

 cc)
 Minimum length of roll, approximately
 45 m (150 ft)
 - The excelsior blanket shall be smolder resistant.
- 5. Culvert And Inlet Protection
 - Culvert protection shall consist of a ditch check immediately upstream of every culvert entrance. Ditch check shall be installed to protect culvert interior from sedimentation.
 - b) Inlet protection shall consist of purpose made devices by:

Dandy Products, Inc.

P. O. Box 1980

Westerville, Ohio 43086-1980

Phone: 1-800-591-2284 Fax: 740-881-2791 www.dandyproducts.com dlc@dandyproducts.com

or

NILEX, Inc.

15171 E. Fremont Drive Centennial, CO 80112 Phone: 1-800-537-4241 Fax: 303-766-1110

www.nilex.com denver@nilex.com

- c) "Or Equal" substitutions may be made with prior approval of Owner's Representative.
- 6. Stabilized Entrance
 - a) Stabilized entrance shall consist of coarse aggregate laid over geotextile fabric.
 - b) Dimensions: 70' long by 14' wide.
 - c) Geotextile Fabric: as per requirements of "silt fencing".
 - d) Aggregate: IDOT Class CA-1, CA-2, cA-3, or CA-4.

E. EXECUTION

- Site Erosion And Sediment Control
 - a) Contractor is responsible for fulfilling terms of City of Peoria Erosion Control Permit and all applicable portions of the "Erosion, Sediment, and Stormwater Control Ordinance of the City of Peoria".
 - b) Install control devices as shown on erosion control plan.
 - c) Install additional measures as needed to control erosion and sedimentation on the site.
- 2. Silt Fencing Installation
 - a) Install silt fencing according to details in plans. The silt fence shall be entrenched to a minimum depth of 8".
 - b) The silt fence shall be installed on the contour, with the ends extending up-slope.
 - c) Install silt fencing before commencing site clearing work.
- 3. Ditch Check Installation
 - a) Install ditch checks according to details in plans.
 - b) Install ditch checks at locations shown on plans.
 - c) Install additional ditch checks as needed to control erosion within drainage swales as site conditions and weather dictate.
 - d) Install ditch checks immediately after swales are graded.

50 (woven)

- 4. Erosion Control Blankets Installation
 - Install erosion control blankets as needed to control erosion in drainage swales and at the direction of the Owner's Representative.
 - Anchor stakes shall be driven at a spacing of 2 feet on center.
- 5. Culvert And Inlet Protection Installation
 - a) Install culvert protection at upstream entrances to all culverts.
 - b) Install culvert protection to intercept waterborne silt and sediment and prevent it from entering culvert pipes.
 - c) Install immediately after culvert installation.
 - d) Install inlet protection according to manufacturer's written instructions at each inlet immediately after inlet construction.
- 6. Stabilized Construction Entrance Installation
 - a) Install stabilized construction entrance and other approved measures as necessary to limit tracking of soil on to all paved surfaces.
 - b) Comply with all City of Peoria codes limiting tracking of soil on to City streets.

Maintenance

- Inspect silt fences after each rainfall. Repair fencing, failures, end runs, and erosion cuts immediately.
- b) Remove soil from silt fencing after each rainfall.
- c) Erosion control maintenance and repair shall be considered incidental to the contract.
- d) Tracked soil and sediment shall be removed from all paved surfaces on a daily basis.
- e) Replace or provide new erosion and sediment control measures as needed during construction to provide protection to site and surrounding property for the entire time of construction, or until project is complete.

8. Close-Out

- a) Remove silt fencing and other erosion and sediment control devices after lawn or seeding has been established.
- b) Soil deposits remaining in place after silt fence is no longer required shall be dressed to conform to existing grade, and seeded with appropriate seed material.

SECTION 016000 - PRODUCT REQUIREMENTS

- A. MATERIALS AND EQUIPMENT
 - 1. STANDARD SPECIFICATIONS
 - a) Reference herein to known standard specifications of governmental agencies or technical societies shall refer to the latest edition of such specifications, adopted and published at date of these Specifications.
 - 2. MANUFACTURED ARTICLES
 - All manufactured articles, materials and equipment to be incorporated in the work shall be new (unless otherwise specified) and of the quality specified and shall be used, erected, installed, connected, cleaned and conditioned as directed by and in conformity with job conditions to produce the best results obtainable.
 - Field measurements for all special products and materials which requires close tolerances or fitting into other items or components
 of the Work shall be taken on the job by the party furnishing the materials.
 - 3. QUALITY ASSURANCE
 - Per the Supplementary Instructions to Bidders, the Bidder by submission of a signed bid form, agrees to install products and equipment by brand and model name or names specified in the Technical Specifications, Divisions 02-35. Substitutions are allowed only in conformance to the following:
 - Proprietary Specification Requirement: Where only a single product or manufacturer is named, provide the product indicated. No substitutions will be permitted.
 - Semiproprietary Specification Requirement: Where two or more products or manufacturers are named, provide one of the products indicated. No substitutions will be permitted
 - aa) Where either of the two cases above prevail, and the named product is accompanied by "or approved equal" substitutions will be allowed only upon written approval of the Owner's Representative prior to submission of bids.
 - 3) Non-Proprietary Specification Requirement: When the Specifications lists products or manufacturers that are available and are accompanied by "or equal", the Contractor may propose any available product that complies with the Specifications' requirements; however, the Owner's Representative shall determine if the produced item complies with those requirements.
 - 4) <u>Descriptive Specification Requirement</u>: Where Specifications describe a product or assembly listing exact characteristics required, with or without use of a brand, trade, or model name, provide a product or assembly that provides the characteristics and otherwise complies with the Contract Documents.
 - 5) <u>Performance Specification Requirement</u>: Where Specifications require compliance with performance requirements, provide products or assembly that comply with these requirements and are recommended by the manufacturer for the application indicated.
 - 6) <u>Compliance with Standards, Codes, and Regulations</u>: Where the Specifications only require compliance with an imposed code, standard, or regulation, select a product that complies with the standard, code, or regulation specified.
 - b) VISUAL MATCHING AND SELECTION. Where the Specifications require matching an established sample or call for "as selected", the Owner's Representative's decision will be final on whether a proposed product matches satisfactorily.

B. STORAGE AND PROTECTION

- GENERAL
 - a) Contractor shall provide and maintain:
 - 1) Storage for materials and equipment to be installed in Project.
 - 2) Protection and security for stored materials and equipment, on and off site.
 - 3) Protection of existing on-site elements to remain.
 - 4) Protection of adjacent properties improvements
- 2. METHODS
 - a) Store off grade and cover with impervious material all moisture or water vulnerable materials.
 - b) Store finished products and equipment in an enclosed building, on or off site.
 - c) Maintain integrity of shipping cartons until ready for installation.
 - d) Provide separate storage for combustible and non-combustible products.
 - e) Follow storage recommendations of product and equipment manufacturers.
 - f) Other methods shall be subject to Owner's prior written approval.

3. The Contractor shall maintain an emergency phone number where a contact person can be notified at any time, Sundays and holidays included, of an emergency condition due to the work which requires immediate repair or protection.

C. SUBSTITUTIONS

- See "SECTION 016000 A. MATERIALS AND EQUIPMENT" for requirements pertaining to substitution of specified materials, products, equipment, etc.
- 2. Contractor may propose substitute materials, products, equipment, etc., after award of the Bid; however, such proposals are expected to result in a cost savings to the Owner and/or higher quality Work at no additional cost to the Owner.

D. WARRANTIES AND BONDS

GENERAL

- a) This Section specifies general administrative and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturer's standard warranties on products and special warranties.
- b) Warranties for the Work and products and installations of each Contractor shall be one (1) year unless specified otherwise in the individual Sections of Divisions 02 through 35.
- c) Disclaimers and Limitations:
 - Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and Contractors required to countersign special warranties with the Contractor.
 - 2) The responsibility of the Contractor in respect to the required warranties shall not be relieved or limited in any way by the failure of installed components, equipment, materials, etc., due to naturally occurring and/or re-occurring conditions at the site or area of the Work including, but not limited to:
 - aa) ground and soil conditions, especially as related to frost heave;
 - bb) high wind velocities (except those exceeding velocities normally used for calculating wind loading at the site of the Work);
 - cc) rain and water damage (unless caused by winds exceeding normal design limits);
 - dd) ice/snow loading on structures
 - ee) and other naturally occurring or re-occurring site conditions
 - 3) The Contractor shall notify the Owner's Representative, prior to the award of the contract, of any part or component of the Work that is, in his opinion, not designed to accommodate the existing, naturally occurring, or re-occurring conditions of the site, and whether or not a change in the proposed methods of construction, types of equipment, etc., will affect the bid price.
 - aa) Should the proposed change in construction methods, equipment type, etc., result in additional expense, the Owner reserves the right to request proposals from the other bidders and to make award the contract based on the bid amount which includes the proposed change.

WARRANTY REQUIREMENTS

- Related Damages and Losses: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- b) Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- c) Replacement cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.
- d) Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights or remedies.
 - aa) Rejection of Warranties: The Owner reserves the rights to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
- e) The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.
- f) For specific warranty requirements related to landscape materials, refer to the applicable Section.

3. SUBMITTALS

- a) Submit written warranties to the Owner's Representative prior to the date certified for Substantial Completion. If the Owner's Representative's Certificate of Substantial Completion designates a commencement date for warranties other that the date of Substantial Completion for the Work, or a designated portion of the Work, submit written warranties upon request of the Owner's Representative.
 - When a designated portion of the Work is completed and occupied or used by the Owner, by separate agreement with the Contractor during the construction period, submit properly executed warranties to the Owner's Representative within fifteen days of completion of that designated portion of the Work.
- b) Form of Submittal: At Final Completion, compile two copies of each required warranty and bond properly executed by the Contractor, or by the Contractor, Subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Project Manual.
- c) Bind warranties and bonds in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.
- d) Provide heavy paper dividers with celluloid covered tabs for each separate warranty. Mark the tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.
- Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS", the project title or name, and the name of the Contractor.
- f) When operating and maintenance manuals are required for warranted construction, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

SECTION 017300 - EXECUTION

A. GEOTECHNICAL DATA

- 1. If the Owner has caused borings or other subsurface investigations to be made, the data or report pursuant to these investigations will be included in the Project Manual, as an Appendix, and labeled as such.
- 2. The Owner and Owner's Representative do not guarantee the accuracy or validity of the data, nor do they assume any responsibility for the Contractor's interpretation of the data.
- 3. The Contractor's may, at his option, perform additional subsurface investigation, however, it shall be at the Contractor's sole expense.

B FIELD ENGINEERING

Provide such field engineering services as are required for proper completion of the Work including, but not limited to:

- 1. Establishing and maintaining lines and levels
- 2. Structural design of shores, forms, and similar items provided by the Contractor as part of his means and methods of construction.
- 3. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmarks and control points. Preserve permanent reference points during construction.

C. COORDINATION OF TRADES AND SUB-CONTRACTORS

- 1. The Contractor shall be responsible for the proper fitting of all work and for the coordination of the operation of all trades, sub-contractors, or materials and men engaged upon the work. He shall be prepared to guarantee to each of his subcontractors the dimensions which may be required for fitting of their work to all surrounding work and shall do, or cause his agents to do, all cutting, fitting, adjusting and patching necessary to make the several parts of the work come together properly and fit the work to receive, or be received by that of other contractors.
- 2. When two or more prime contracts are being executed at one time in such manner that the work on one contract may interfere with the work of another, the Owner's Representative shall decide which contractor shall cease work and which shall continue, or whether the work on both contracts may progress at the same time and in what manner.
 - a) The Contractor shall not cause any unnecessary hindrance or delay to any other contractors on the premises, and shall be responsible for all damages done to the work of other contractors caused by him or by his employees.

D. REFERENCE AND CONTROL POINTS PROVIDED BY OWNER

In addition to layout procedures provided by the Contractor for proper performance of the Contractor's responsibilities:

- 1. Locate and protect existing control points before starting work on the site.
- 2. Preserve permanent reference points during progress of the Work.
- 3. Do not change or relocate reference points or items of the Work without specific approval from the Owner's Representative.
- 4. Promptly advise the Owner's Representative when a reference point is lost or destroyed, or requires relocation because of other changes in the Work.
- 5. Upon direction of the Owner's Representative, require the field engineer to replace reference stakes or markers.
- 6. Locate such replacement according to the original survey control.

E. REFERENCE AND CONTROL POINTS PROVIDED BY THE CONTRACTOR

- 1. If not provided by the Owner (and defined as the responsibility of the Owner in the Contract Documents) establish sufficient general reference points in the form of permanent bench marks, grade stakes or other markers as will enable the Contractor to proceed with the Work.
- The Contractor may lay out his own work, or cause the Work to be laid out by a qualified party such as a Registered Land Surveyor or a Professional Engineer, as necessary.
- 3. The Contractor shall establish and be responsible for all lines, elevations and measurements of the structure utilities, installations, and other Work executed by him under the contract.
 - a) Exercise proper precautions to verify the figures and dimensions shown on the drawings before laying out the work; be responsible for any error resulting from failure to exercise such precaution.

SECTION 017329 - CUTTING AND PATCHING

A. CHASES AND OPENINGS

- 1. The Contractor is responsible for the provision and/or coordination of all chases, openings and recesses required by work of his own forces, subcontractors or separate contractors.
 - a) Each subcontractor or separate contractor shall be responsible for furnishing advance information to the General Contractor as to exact dimensions and locations of such chases and openings, and shall provide and set in place all necessary sleeves, inserts and forms.
 - b) Openings shall be accurately located, neatly cut, and no larger than necessary. Provide all rebuilding, patching, refinishing and painting required to restore the construction to original condition.
- 2. Provide shoring, bracing, and support as required to maintain structural integrity of the project.
- 3. Provide protection from cutting and patching operations as required for other portions of the project; protect the Work and existing improvements in proximity to the cutting and patching operations from the elements.

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

A. PERIODIC CLEANING

- 1. Each Contractor shall clean up after his own work as needed and/or ensure that sub-contractors clean up after their work and remove accumulations of waste, debris, and rubbish caused by construction operations.
 - a) Remove all waste, rubbish and debris on a daily basis (if needed), as they accumulate, and after completion of the Work.

B. PROJECT COMPLETION

- 1. On completion of the project, the entire job shall be cleaned up and left in perfect condition, including adjacent areas.
 - a) Marred surfaces shall be patched or repaired and touched up to match adjoining surfaces.
 - b) All rubbish shall be removed from the site before acceptance.
 - c) New surfaces and/or exposed elements of the Work shall be protected from stain and marring. These surfaces shall be cleaned to the satisfaction of the Owner's Representative or replaced if said stains or mars are unable to be completely removed

C. GOVERNMENTAL REGULATIONS

1. Conduct cleaning and disposal operations in compliance with Federal, State and local ordinances and anti-pollution laws and regulations.

SECTION 017700 - PROJECT CLOSEOUT

A. GENERAL

Work includes:

- Substantial Completion.
- 2. Final Completion
- 3. Closeout submittals.
- 4. Instruction

B. SUBSTANTIAL COMPLETION

- 1. Prepare and submit the list ("punch-list") required by the first sentence of Paragraph 9.8.2 of the General Conditions.
 - a) Within a reasonable time after receipt of the list the Owner's Representative will inspect to determine status of completion. Should the Owner's Representative determine that the Work is not Substantially Complete:
 - 1) The Owner's Representative will so notify the Contractor, in writing, giving the reasons therefore.
 - 2) Remedy the deficiencies and notify the Owner's Representative when ready for reinspection.
 - 3) The Owner's Representative will reinspect the Work.
 - b) When the Owner's Representative concurs that the Work is Substantially Complete:
 - The Owner's Representative will prepare a "Certificate of Substantial Completion" on AIA form G704, accompanied by the Contractor's list of items to be completed or corrected, as verified and approved by the Owner's Representative.
 - The Owner's Representative will submit the Certificate to the Owner and to the Contractor for their written acceptance of the responsibilities assigned to them in the Certificate.

C. FINAL COMPLETION

- Prepare and submit the notice required by the first sentence of Paragraph 9.10.1 of the General Conditions.
 - a) Verify that the Work is complete including, but not necessarily limited to, the items mentioned in Paragraph 9.8.2 of the General Conditions. Certify that:
 - the Contract Documents have been reviewed;
 - 2) the Work has been inspected for compliance with the Contract Documents;
 - 3) the Work has been completed in accordance with the Contract Documents;
 - 4) equipment and systems have been tested as required, and are operational;
 - 5) the Work is completed and ready for final inspection.
 - b) The Owner's Representative will make a final inspection to verify status of completion and if all "punch-list" items have been completed, and upon receipt of the Contractor's Final Application for Payment, issue a Certificate of Final Completion. Should the Owner's Representative determine that the Work is incomplete or defective:
 - 1) The Owner's Representative will so notify the Contractor, in writing, listing the incomplete or defective work.
 - 2) Remedy the deficiencies promptly, and notify the Owner's Representative when ready for reinspection.
 - c) FINAL APPLICATION FOR PAYMENT
 - 1) Submit a final Application for Payment to the Owner's Representative, showing all adjustments to the Contract Sum.
 - If needed, the Owner's Representative will prepare a final Change Order showing adjustments to the Contract Sum which were not made previously by Change Orders.
 - 3) Include final waivers of lien from the Contractor, sub-contractors, and major suppliers.
 - 4) Final payment will not be released until all close-out submittals have been made, final cleaning has been performed, and required instruction(s) to Owner's personnel have been accomplished.

D. CLOSEOUT SUBMITTALS

- When the Owner's Representative determines that the Work is acceptable under the Contract Documents, he will request the Contractor to make closeout submittals. Closeout submittals include, but are not necessarily limited to:
 - a) Project record documents described in "Section 017839".
 - b) Operation and maintenance manuals/data as described in "Section 017823".
 - c) Warranties and bonds as described in "Section 016000".
 - d) Keys and keying schedule;
 - e) Spare parts and materials extra stock;
 - f) Evidence of compliance with requirements of governmental agencies having jurisdiction including, but not necessarily limited to:
 - 1) Certificates of Inspection, as required
 - 2) Certificate(s) of Occupancy
 - g) Certificates of Insurance for products and completed operations;
 - h) Evidence of payment and release of liens.
 - 1) Consent of Surety to Final Payment
 - 2) Contractor's Final Waiver of Lien
 - Separate releases or Waivers of Lien for sub-contractors, suppliers and others with lien rights against the Owner, together with a list of those parties.
 - List of subcontractors, service organizations, and principal vendors, including names, addresses, and telephone numbers where they can be reached for emergency service at all times including nights, weekends, and holidays.

SECTION 017823 - OPERATING/MAINTENANCE MANUALS & INSTRUCTION

A. GENERAL

- 1. Compile operating/product data and related information appropriate for Owner's maintenance and operation of products and equipment provided under the Contract.
- 2. Instruct Owner's personnel in operation and maintenance of products, equipment and systems.
- 3. OPERATIONS AND MAINTENANCE DATA REQUIRED:
 - a) Operating and maintenance manuals are required for each area of Work which is listed below, if that area of Work is included within the scope of Work of the project:
 - 1) HVAC

- 2) Plumbing including water supply, sewage and waste disposal
- 3) Electrical
- 4) Landscape irrigation system
- 5) Fire sprinkler system
- 6) Communications equipment and systems
- 7) Materials and finishes
 - a. Curtain Wall System
 - b. Glazing
 - c. Paints and other finishes
 - d. Sealants

B. OPERATIONS/MAINTENANCE MANUALS - FORM OF SUBMITTAL

- 1. Prepare operating and maintenance manuals in the form of an instructional manual, utilizing heavy-duty, durable 3-ring vinyl covered loose-leaf binders, for use by the Owner's operating personnel. Organize into suitable sets of manageable size. Where possible, assemble instructions for similar equipment into a single binder. Provide when drawings or diagrams are required as part of the manual.
- 2. Provide sturdy manila or kraft envelope, accordion type file folder, or cardboard file boxes, properly labeled, of sufficient size to contain all submittals.
- 3. Submit one copy of data in final form at least fifteen days before final inspection. This copy will be returned within fifteen days after final inspection, with comments. After final inspection make corrections or modifications to comply with the Owner's Representative's comments and submit three copies of each approved manual to the Owner's Representative
- 4. WARRANTIES, BONDS AND SERVICE CONTRACTS
 - a) Provide a copy of each warranty, bond or service contract in the appropriate manual for the information of the Owner's operating personnel. Provide written data outlining procedures to be followed in the event of product failure. List circumstances and conditions that would affect validity of the warranty or bond. Provide list for each product containing name, address, and phone number of:
 - Contractor.
 - 2) Subcontractor.
 - 3) Maintenance contractor, as appropriate.
 - 4) Local supply source for parts and replacement.
 - Identify area of responsibility of each contractor.

C. MANUAL FOR MATERIALS AND FINISHES

- 1. Submit two (2) copies of complete manual in final form.
- 2. Refer to individual Specification Sections for additional requirements on care and maintenance of materials and finishes.
- 3. Content for products, applied materials and finishes:
 - a) Manufacturer's data, giving full information on products.
 - Catalog number, size, composition.
 - 2) Color and texture designations.
 - 3) Information for re-ordering special-manufactured products.
- 4. Instructions for care and maintenance.
 - a) Manufacturer's recommendations for types of cleaning agents and methods.
 - b) Cautions against cleaning agents and methods detrimental to product.
 - c) Recommended cleaning and maintenance schedule.
- Moisture-Protection and Weather-Exposed Products: Provide complete manufacturer's data with instructions on inspection, maintenance and repair of products exposed to the weather or designed for moisture-protection purposes.
- 6. Manufacturer's Data: Provide manufacturer's data giving detailed information, including the following, as applicable:
 - a) Applicable standards.
 - b) Chemical composition.
 - c) Installation details.
 - d) Inspection procedures.
 - e) Maintenance information.
 - f) Repair procedures.

D. INSTRUCTION

- 1. Instruct the Owner's personnel in proper operation and maintenance of systems, equipment, and similar items which were provided as part of the Work including, but not limited to;
 - a) Mechanical
 - b) Water supply
 - c) Electrical service/distribution and lighting
 - d) Other items or systems as required in individual sections of the Technical Specifications
- 2. Instructions for the Owner's Personnel: For instruction of the Owner's operating and maintenance personnel, use experienced instructors thoroughly trained and experienced in the operation and maintenance of the equipment or system involved.

SECTION 017839 - PROJECT RECORD DOCUMENTS (AS-BUILTS)

- A. DOCUMENTS REQUIRED AT SITE
 - 1. The Contractor shall maintain at the job site one copy of all Drawings, Specifications, Addenda, approved Shop Drawings, Change Orders, and other Contract modifications
 - a) Each of these project record documents shall be clearly marked "Project Record Copy"
 - b) Shall be maintained in good condition
 - c) shall be available at all times for inspection by the Park District, and shall not be used for construction purposes.
- B. Project-record drawings shall be marked up to show significant changes made during construction progress, referenced to visible and accessible features of the structures. Project-record drawings shall be kept current and no work shall be concealed until required information has been recorded.

C.	Record-documents shall be submitted in satisfactory condition to the Park District at the completion of the project. FINAL COMPLETION OF THE PROJECT WILL NOT BE ATTAINED, AND FINAL PAYMENT WILL BE WITHHELD, UNTIL PROJECT "AS-BUILTS" ARE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
	END OF GENERAL REQUIREMENTS
	AVIARY CURTAIN WALL REPLACEMENT - Project Manual

Project Manual for

PEORIA ZOO AVIARY CURTAIN WALL REPLACEMENT

Glen Oak Park Peoria Zoo 2320 N. Prospect Road Peoria, IL 61603

OWNER:	Peoria Park District 1314 N. Park Road Peoria, IL 61603
ARCHITECT:	apace Design Architects + Engineers 2112 E. War Memorial Drive Peoria, IL 61614-8002 Project No. 24929.04
DATE:	22 August 2017
SET NO.	



EXPIRES 11/30/18

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PROJECT MANUAL FOR: PEORIA ZOO AVIARY CURTAIN WALL REPLACEMENT

Glen Oak Park Zoo 2320 N. Prospect Road Peoria, IL 61603

OWNER: Peoria Park District

1314 N. Park Road Peoria, IL 61603

ARCHITECT: apaceDesign Architects + Engineers

2112 E. War Memorial Drive Peoria, IL. 61614-8002

DATE: 22 August 2017

NOTE: THESE SPECIFICATIONS UTILIZE THE (UPDATED) 2004 CSI MASTERFORMAT. CERTAIN DIVISION NUMBERS HAVE CHANGED FROM THE PREVIOUS FORMAT.

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099113 EXTERIOR PAINTING 4

SPECIFIERS: apaceDesign Architects + Engineers

Architectural: Benjamin L. Kauffman

Tel.: (309) 685-4722 Fax: (309) 685-4784

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Phased construction.
 - 4. Work under separate contracts.
 - 5. Access to site.
 - 6. Coordination with occupants.
 - 7. Work restrictions.
 - 8. Specification and drawing conventions.
 - 9. Miscellaneous provisions.

B. Related Requirements:

 Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.2 PROJECT INFORMATION

- A. Project Identification: Peoria Zoo Aviary Curtain Wall Replacement, 2015904.00.
 - 1. Project Location: Peoria Zoo, 2320 N. Prospect Road, Peoria, IL 61603.
- B. Owner: Peoria Park District, 1125 W. Lake Ave., Peoria, IL 61614.
 - 1. Owner's Representative: Mary Harden, 309-686-3386.
- C. Architect: apaceDesign Architects + Engineers, 2112 E. War Memorial Drive, Peoria, IL 61614, 309-685-4722.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
 - Project consists of demolition of an existing curved glazing curtain wall system and replacement with a new curved wall system. On-site steel fabrication, masonry repair, and painting will also be required. Hazardous materials are present and will need to be abated lawfully.
- B. Type of Contract.
 - 1. Project will be constructed under a single prime contract.

1.4 WORK UNDER SEPARATE CONTRACTS

A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.

1.

1.5 ACCESS TO SITE

- A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- B. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Limits: Confine construction operations to project work limited. Connections of utilities may be required beyond project limited and shall be coordinated with Owner a minimum 72 hours in advance and require a written notice to proceed from the Owner.
 - 2. Driveways, Walkways and Entrances: Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials, unless Owner's approves areas in writing.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

1.6 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy site and existing, adjacent building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's dayto-day operations. Maintain existing exits unless otherwise indicated.
 - Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 - 2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.
 - 3. Zoo will remain open during construction of the project. Take extra precautions to ensure Zoo patrons safety. Hours of operation are from 10:00 AM 5:00 PM.
- B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.
 - 1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.

- 2. Obtain a Certificate of Occupancy from authorities having jurisdiction before limited Owner occupancy.
- 3. Before limited Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of Work.
- 4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
 - 2. Obtain Architect's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.
 - 1. Notify Owner not less than two days in advance of proposed disruptive operations.
 - 2. Obtain Owner's written permission before proceeding with disruptive operations.
- E. Nonsmoking Building: Smoking is not permitted within the Zoo grounds and property.
- F. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

1.8 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Add Alternate No. 1: Adjacent ACM pane; abatement.

1. Alternate: All work required to lawfully remove existing ACM panels and replace with spandrel glazing panels.

END OF SECTION 012300

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
 - 1. Section 016000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.2 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1.3 ACTION SUBMITTALS

- A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Substitution Request Form: Use CSI Form 13.1A.
 - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
 - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.
 - g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
 - h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.

- i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
- j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
- k. Cost information, including a proposal of change, if any, in the Contract Sum.
- Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
- m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
- 3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
 - a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.4 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Requested substitution will not adversely affect Contractor's construction schedule.
 - c. Requested substitution has received necessary approvals of authorities having jurisdiction.

- d. Requested substitution is compatible with other portions of the Work.
- e. Requested substitution has been coordinated with other portions of the Work.
- f. Requested substitution provides specified warranty.
- g. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Not allowed.

PART 3 - EXECUTION (Not Used)

END OF SECTION 012500

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.2 MINOR CHANGES IN THE WORK

A.Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions".

1.3 PROPOSAL REQUESTS

- A.Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
 - Within time specified in Proposal Request or 20 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - Include costs of labor and supervision directly attributable to the change.
 - Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - Quotation Form: Use CSI Form 13.6D, "Proposal Worksheet e. Summary, and Form 13.6C, "Proposal Worksheet Detail".
- B.Contractor-Initiated Work Change Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.
 - Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
 - Include a list of quantities of products required or eliminated 2. and unit costs, with total amount of purchases and credits to be

- made. If requested, furnish survey data to substantiate quantities.
- Indicate applicable taxes, delivery charges, equipment rental, 3. and amounts of trade discounts.
- Include costs of labor and supervision directly attributable to 4. the change.
- Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- Comply with requirements in Section 012500 "Substitution 6. Procedures" if the proposed change requires substitution of one product or system for product or system specified.
- 7. Work Change Proposal Request Form: Use CSI Form 13.6A, "Change Order Request (Proposal)," with attachments CSI Form 13.6D, "Proposal Worksheet Summary," and Form 13.6C, "Proposal Worksheet Detail".

1.4 ADMINISTRATIVE CHANGE ORDERS

- A.Allowance Adjustment: See Section 012100 "Allowances" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.
- B.Unit-Price Adjustment: See Section 012200 "Unit Prices" administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit-price work.

1.5 CHANGE ORDER PROCEDURES

- A.On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.
 - Change Orders are written documents describing changes in the Work, in the Contract Sum, in the Contract Time of Completion, or any combination thereof. Change Orders must be signed by both the Owner and the Architect/Owner's Representative prior to proceeding with the Work subject to the Change Order. REQUESTS FOR "EXTRA'S" OR OTHER ADDITIONAL PAYMENTS OVER AND ABOVE THE CURRENT CONTRACT SUM WILL NOT BE CONSIDERED WITHOUT THE PRIOR, WRITTEN APPROVAL OF BOTH THE OWNER AND THE REPRESENTATIVE.
 - PROCESSING CHANGE ORDERS.
 - 1. Orders will be dated and will be numbered in sequence.
 - 2. The Change Order will describe the change or changes, or will refer to the Proposal Requests or Field Orders involved.
 - 3. The Owner's Representative will issue three copies of each Change Order to the Contractor.
 - 4. The Contractor promptly shall sign all three copies and return them to the Owner's Representative.

- 5. The Owner and Owner's Representative will retain two signed copies in their files, and will forward one signed copy to the Contractor.
- 6. Should the Contractor disagree with the stipulated change in Contract Sum or change in Contract Time of Completion, or both:
 - The Contractor promptly shall return all three of the Change Orders, unsigned by him, to the Owner's Representative with a letter signed by the Contractor stating the reason or reasons for the Contractor's disagreement.
 - ii. The Contractor's disagreement with the Change Order shall not in any way relieve the Contractor of his responsibility to proceed with the change as ordered and to seek settlement of the dispute under pertinent provisions of the Contract Documents.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B.Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Section 012100 "Allowances" for procedural requirements governing the handling and processing of allowances.
 - 2. Section 012200 "Unit Prices" for administrative requirements governing the use of unit prices.
 - Section 012600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 4. Section 013200 "Construction Progress Documentation" for administrative requirements governing the preparation and submittal of the Contractor's construction schedule.

1.2 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Architect at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
 - 3. Subschedules for Phased Work: Where the Work is separated into phases requiring separately phased payments, provide subschedules showing values coordinated with each phase of payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Name of Architect.
 - c. Architect's project number.
 - d. Contractor's name and address.
 - e. Date of submittal.
 - 2. Arrange schedule of values consistent with format of AIA Document G703.
 - 3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.

- a. Include separate line items under Contractor and principal subcontracts for Project closeout requirements in an amount totaling five percent of the Contract Sum and subcontract amount.
- 4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
- 5. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
- 6. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
- 7. Allowances: Provide a separate line item in the schedule of values for each allowance. Show line-item value of unit-cost allowances, as a product of the unit cost, multiplied by measured quantity. Use information indicated in the Contract Documents to determine quantities.
- 8. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
- 9. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.3 APPLICATIONS FOR PAYMENT

A. Applications for Payment

- 1. Progress payments will be made only if specifically called for in the Agreement. In all other cases, the Contractor may submit an Application for Payment (3 copies) upon Substantial Completion (95% of the Contract Sum), with the balance of the Contract Sum to be paid at Final Completion.
 - a. Paragraph #52 of the Supplementary Conditions defines the documentation required for each payment request.
 - b. Applications for payment shall be delivered to the Owner's Project Manager at: Department of Planning, Design, and Construction, Peoria Park District, Bradley Park Equipment Services, 1314 N. Park Road, Peoria, IL 61604
- B. Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of

Contractor. Architect will return incomplete applications without action.

- 1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
- 2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
- E. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
 - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- F. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.
 - 1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 - 2. When an application shows completion of an item, submit conditional final or full waivers.
 - 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 - 4. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
- G. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
 - 1. List of subcontractors.
 - 2. Schedule of values.
 - 3. Contractor's construction schedule (preliminary if not final).
 - 4. Schedule of unit prices.
 - 5. Submittal schedule (preliminary if not final).
 - 6. List of Contractor's staff assignments.
 - 7. List of Contractor's principal consultants.
 - 8. Copies of building permits.
 - 9. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 - 10. Initial progress report.
 - 11. Report of preconstruction conference.
 - 12. Certificates of insurance and insurance policies.
- H. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
 - 1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.

- 2. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- I. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
 - 1. Evidence of completion of Project closeout requirements.
 - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 - 3. Updated final statement, accounting for final changes to the Contract Sum.
 - 4. AIA Document G706-1994, "Contractor's Affidavit of Payment of Debts and Claims."
 - 5. AIA Document G706A-1994, "Contractor's Affidavit of Release of Liens."
 - 6. AIA Document G707-1994, "Consent of Surety to Final Payment."
 - 7. Evidence that claims have been settled.
 - 8. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
 - 9. Final liquidated damages settlement statement.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012900

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

- Section includes administrative provisions for coordinating Δ construction operations on Project including, but not limited to, the following:
 - 1. Coordination drawings.
 - 2. Requests for Information (RFIs).
 - 3. Project meetings.

B. Related Requirements:

- Section 011200 "Multiple Contract Summary" for a description of the division of work among separate contracts and responsibility for coordination activities not in this Section.
- 2. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.

DEFINITIONS 1.2

RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.3 INFORMATIONAL SUBMITTALS

- Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Use CSI Form 1.5A. Include the following information in tabular form:
 - Name, address, and telephone number of entity performing subcontract or supplying products.
 - Number and title of related Specification Section(s) covered by
 - Drawing number and detail references, as appropriate, covered by subcontract.

GENERAL COORDINATION PROCEDURES 1.4

- Coordination: Coordinate construction operations included in different Α. Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.
 - Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.

- Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - Preparation of Contractor's construction schedule.
 - 2. Preparation of the schedule of values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - Progress meetings.
 - Preinstallation conferences. 6.
 - 7. Project closeout activities.
 - 8. Startup and adjustment of systems.

COORDINATION DRAWINGS 1.5

- Α. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
 - Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - Indicate functional and spatial relationships of components architectural, structural, civil, mechanical, and electrical systems.
 - Indicate dimensions shown on the Drawings. Specifically note b. dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- Coordination Drawing Organization: Organize coordination drawings as follows:
 - Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid.
 - Plenum Space: Indicate subframing for support of ceiling and wall 2. systems, mechanical and electrical equipment, and related Work. Locate components within ceiling plenum to accommodate layout of light fixtures indicated on Drawings.
 - Mechanical Rooms: Provide coordination drawings for mechanical 3. rooms showing plans and elevations of mechanical, plumbing, fireprotection, fire-alarm, and electrical equipment.

- Structural Penetrations: Indicate penetrations and openings required for all disciplines.
- Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.
- Review: Architect will review coordination drawings to confirm that the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility.

1.6 REQUESTS FOR INFORMATION (RFIs)

- General: Immediately on discovery of the need for additional Α. information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
 - 1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
 - Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
 - 1. Project name.
 - 2. Project number.
 - 3. Date.
 - 4. Name of Contractor.
 - 5. Name of Architect.
 - 6. RFI number, numbered sequentially.
 - 7. RFI subject.
 - 8. Specification Section number and title and related paragraphs, as appropriate.
 - 9. Drawing number and detail references, as appropriate.
 - 10. Field dimensions and conditions, as appropriate.
 - 11. Contractor's suggested resolution. If Contractor's solution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 - 12. Contractor's signature.
 - 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
- RFI Forms: AIA Document G716.
- Architect's Action: Architect will review each RFI, determine action D. required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
 - The following RFIs will be returned without action:
 - Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - Requests for coordination information already indicated in the Contract Documents.
 - Requests for adjustments in the Contract Time or the Contract d. Sum.

- e. Requests for interpretation of Architect's actions on submittals.
- Incomplete RFIs or inaccurately prepared RFIs.
- Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
- Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
 - If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.
- RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Use CSI Log Form 13.2B.
 - 1. Project name.
 - Name and address of Contractor. 2.
 - 3. Name and address of Architect.
 - 4. RFI number including RFIs that were dropped and not submitted.
 - 5. RFI description.
 - 6. Date the RFI was submitted.
 - 7. Date Architect's response was received.
- On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.
 - Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
 - Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

1.7 PROJECT MEETINGS

- General: Schedule and conduct meetings and conferences at Project site Α. unless otherwise indicated.
 - Attendees: Inform participants and others involved, individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 - Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 - Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.
- Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after execution of the Agreement.
 - Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be

familiar with Project and authorized to conclude matters relating to the Work.

- Agenda: Discuss items of significance that could affect progress, including the following:
 - Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long-lead items.
 - d. Designation of key personnel and their duties.
 - e. Procedures for processing field decisions and Change Orders.
 - f. Procedures for RFIs.
 - g. Procedures for testing and inspecting.
 - h. Procedures for processing Applications for Payment.
 - i. Distribution of the Contract Documents.
 - j. Submittal procedures.
 - k. Preparation of record documents.
 - 1. Use of the premises and existing building.
 - Work restrictions.
 - n. Working hours.
 - o. Owner's occupancy requirements.
 - p. Responsibility for temporary facilities and controls.
 - q. Procedures for moisture and mold control.
 - r. Procedures for disruptions and shutdowns.
 - Construction waste management and recycling.
 - t. Parking availability.
 - u. Office, work, and storage areas.
 - v. Equipment deliveries and priorities.
 - w. First aid.
 - x. Security.
 - y. Progress cleaning.
- Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.
- Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.
 - Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials installations that have preceded or will follow, shall attend the meeting. Advise Architect of scheduled meeting dates.
 - Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
 - a. Contract Documents.
 - b. Options.
 - c. Related RFIs.
 - d. Related Change Orders.
 - e. Purchases.
 - f. Deliveries.
 - g. Submittals.
 - h. Review of mockups.
 - i. Possible conflicts.
 - j. Compatibility problems.
 - k. Time schedules.
 - 1. Weather limitations.
 - m. Manufacturer's written instructions.
 - n. Warranty requirements.

- o. Compatibility of materials.
- p. Acceptability of substrates.
- Temporary facilities and controls. q.
- Space and access limitations. r.
- s. Regulations of authorities having jurisdiction.
- t. Testing and inspecting requirements.
- u. Installation procedures.
- v. Coordination with other work.
- w. Required performance results.
- Protection of adjacent work.
- Protection of construction and personnel.
- 3. Record significant conference discussions, agreements, disagreements, including required corrective measures actions.
- Reporting: Distribute minutes of the meeting to each party 4. present and to other parties requiring information.
- Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- Progress Meetings: Conduct progress meetings at biweekly intervals. D.
 - Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 - Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - Interface requirements. 1)
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.
 - 5) Off-site fabrication.
 - 6) Access.
 - 7) Site utilization.
 - 8) Temporary facilities and controls.
 - 9) Progress cleaning.
 - 10) Quality and work standards.
 - 11) Status of correction of deficient items.
 - 12) Field observations.

- 13) Status of RFIs.
- 14) Status of proposal requests.
- 15) Pending changes.16) Status of Change Orders.
- 17) Pending claims and disputes.
- 18) Documentation of information for payment requests.
- 3. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
 - Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

- Section includes administrative and procedural requirements for Α. documenting the progress of construction during performance of the Work, including the following:
 - 1. Contractor's construction schedule.
 - 2. Construction schedule updating reports.
 - 3. Daily construction reports.
 - 4. Site condition reports.

1.2 DEFINITIONS

- Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - 1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
 - 2. Predecessor Activity: An activity that precedes another activity in the network.
 - 3. Successor Activity: An activity that follows another activity in the network.
- CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.
- Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- Float: The measure of leeway in starting and completing an activity.
 - 1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.

1.3 INFORMATIONAL SUBMITTALS

- Format for Submittals: Submit required submittals in the following Α. format:
 - 1. PDF electronic file.
- В. Construction Schedule Updating Reports: Submit with Applications for Payment.
- Daily Construction Reports: Submit at weekly intervals.
- Site Condition Reports: Submit at time of discovery of differing D. conditions.

COORDINATION 1.4

- Coordinate Contractor's construction schedule with the schedule of values, list of subcontracts, submittal schedule, progress reports, payment requests, and other required schedules and reports.
 - Secure time commitments for performing critical elements of the Work from entities involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL 2.1

- Time Frame: Extend schedule from date established for commencement of Α. the Work to date of final completion.
 - 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- В. Activities: Treat each story or separate area as a separate numbered activity for each main element of the Work. Comply with the following:
 - Activity Duration: Define activities so no activity is longer than 20 days, unless specifically allowed by Architect.
 - 2. Procurement Activities: Include procurement process activities for the following long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
 - Submittal Review Time: Include review and resubmittal times indicated in Section 013300 "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.
 - Startup and Testing Time: Include no fewer than 15 days for 4. startup and testing.
 - Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
 - Punch List and Final Completion: Include not more than 30 days for completion of punch list items and final completion.
- Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
 - Phasing: Arrange list of activities on schedule by phase.
 - 2. Work under More Than One Contract: Include a separate activity for each contract.
 - 3. Work by Owner: Include a separate activity for each portion of the Work performed by Owner.
 - 4. Work Restrictions: Show the effect of the following items on the schedule:
 - a. Coordination with existing construction.
 - b. Limitations of continued occupancies.
 - c. Uninterruptible services.
 - d. Partial occupancy before Substantial Completion.

- e. Use of premises restrictions.
- f. Provisions for future construction.
- g. Seasonal variations.
- h. Environmental control.
- 5. Work Stages: Indicate important stages of construction for each major portion of the Work.
- D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.
- Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:
 - 1. Unresolved issues.
 - 2. Unanswered Requests for Information.
 - 3. Rejected or unreturned submittals.
 - 4. Notations on returned submittals.
 - 5. Pending modifications affecting the Work and Contract Time.
- Recovery Schedule: When periodic update indicates the Work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule.
- 2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)
 - Gantt-Chart Schedule: Submit a comprehensive, fully developed, Α. horizontal, Gantt-chart-type, Contractor's construction schedule within 30 days of date established for commencement of the Work.
 - Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.
 - 1. For construction activities that require three months or longer to complete, indicate an estimated completion percentage in 10 percent increments within time bar.

2.3 REPORTS

- Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
 - 1. List of subcontractors at Project site.
 - List of separate contractors at Project site.
 - 3. Approximate count of personnel at Project site.
 - 4. Equipment at Project site.
 - 5. Material deliveries.
 - 6. High and low temperatures and general weather conditions, including presence of rain or snow.
 - 7. Accidents.
 - 8. Meetings and significant decisions.
 - 9. Unusual events.
 - 10. Stoppages, delays, shortages, and losses.
 - 11. Meter readings and similar recordings.
 - 12. Emergency procedures.
 - 13. Orders and requests of authorities having jurisdiction.

- 14. Change Orders received and implemented.
- 15. Construction Change Directives received and implemented.
- 16. Services connected and disconnected.
- 17. Equipment or system tests and startups.
- 18. Partial completions and occupancies.
- 19. Substantial Completions authorized.
- Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- Contractor's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
 - Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
 - Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
 - 3. As the Work progresses, indicate final completion percentage for each activity.
- Distribution: Distribute copies of approved schedule to Architect Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
 - 1. Post copies in Project meeting rooms and temporary field offices.
 - When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 013200

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Requirements:
 - 1. Section 013200 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
 - 2. Section 017823 "Operation and Maintenance Data" for submitting operation and maintenance manuals.
 - 3. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.
 - 4. Section 017900 "Demonstration and Training" for submitting video recordings of demonstration of equipment and training of Owner's personnel.

1.2 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action.
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements.

1.3 ACTION SUBMITTALS

A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic copies of digital data files of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed

because of need to review submittals concurrently for coordination.

- a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 - 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 - 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
- D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
 - 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 - 2. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
 - 3. Include the following information for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Construction Manager.
 - e. Name of Contractor.
 - f. Name of subcontractor.
 - g. Name of supplier.
 - h. Name of manufacturer.
 - i. Submittal number or other unique identifier, including revision identifier.
 - 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
 - j. Number and title of appropriate Specification Section.
 - k. Drawing number and detail references, as appropriate.
 - 1. Location(s) where product is to be installed, as appropriate.
 - m. Other necessary identification.
 - 4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
 - a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect.
 - 5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will discard submittals received from sources other than Contractor.

- a. Transmittal Form for Paper Submittals: Provide locations on form for the following information:
 - 1) Project name.
 - 2) Date.
 - 3) Destination (To:).
 - 4) Source (From:).
 - 5) Name and address of Architect.
 - 6) Name of Construction Manager.
 - 7) Name of Contractor.
 - 8) Name of firm or entity that prepared submittal.
 - 9) Names of subcontractor, manufacturer, and supplier.
 - 10) Category and type of submittal.
 - 11) Submittal purpose and description.
 - 12) Specification Section number and title.
 - 13) Specification paragraph number or drawing designation and generic name for each of multiple items.
 - 14) Drawing number and detail references, as appropriate.
 - 15) Indication of full or partial submittal.
 - 16) Transmittal number, numbered consecutively.
 - 17) Submittal and transmittal distribution record.
 - 18) Remarks.
 - 19) Signature of transmitter.
- E. Options: Identify options requiring selection by Architect.
- F. Deviations: Identify deviations from the Contract Documents on submittals.
- G. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
 - 1. Note date and content of previous submittal.
 - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 - 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements:
 - 1. Action Submittals: Submit three paper copies of each submittal unless otherwise indicated. Architect will return one copy.
 - 2. Informational Submittals: Submit two paper copies of each submittal unless otherwise indicated. Architect will not return copies.

- 3. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - 1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 - 2. Mark each copy of each submittal to show which products and options are applicable.
 - 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 - 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams showing factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.
 - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 - 5. Submit Product Data before or concurrent with Samples.
 - 6. Submit Product Data in the following format:
 - a. Three paper copies of Product Data unless otherwise indicated. Architect will return one copy.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 - 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 42 inches.
 - 3. Submit Shop Drawings in the following format:
 - a. Three opaque copies of each submittal. Architect and Construction Manager will retain two copies; remainder will be returned.

- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
 - 1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 - 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 - 3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 - 4. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 - 5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
 - a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned.
 - If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 - 1. Submit product schedule in the following format:
 - a. Three paper copies of product schedule or list unless otherwise indicated. Architect will return one copy.

- F. Coordination Drawings Submittals: Comply with requirements specified in Section 013100 "Project Management and Coordination."
- G. Contractor's Construction Schedule: Comply with requirements specified in Section 013200 "Construction Progress Documentation."
- H. Application for Payment and Schedule of Values: Comply with requirements specified in Section 012900 "Payment Procedures.
- I. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."
- J. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
- K. Maintenance Data: Comply with requirements specified in Section 017823 "Operation and Maintenance Data."
- L. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- M. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- N. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- O. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- P. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- Q. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- R. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- S. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by

manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

- T. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project.
- U. Schedule of Tests and Inspections: Comply with requirements specified in Section 014000 "Quality Requirements."
- V. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- W. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- X. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- Y. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- C. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 013300

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 2. Requirements for Contractor to provide quality-assurance and control services required by Architect, Owner or authorities having jurisdiction are not limited by provisions of this Section.
 - Specific test and inspection requirements are not specified in this Section.

1.2 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect or Construction Manager.
- C. Mockups: Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under Sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.
 - 1. Laboratory Mockups: Full-size physical assemblies constructed at testing facility to verify performance characteristics.
- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- E. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

- F. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
- G. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- I. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- J. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.3 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.4 INFORMATIONAL SUBMITTALS

- A. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility sent to authorities having jurisdiction before starting work on the following systems:
 - 1. Seismic-force-resisting system, designated seismic system, or component listed in the designated seismic system quality-assurance plan prepared by Architect.
 - 2. Main wind-force-resisting system or a wind-resisting component listed in the wind-force-resisting system quality-assurance plan prepared by Architect.

B. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

1.5 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.
 - 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory inspector.
 - 13. Recommendations on retesting and reinspecting.
- B. Manufacturer's Field Reports: Prepare written information documenting tests and inspections specified in other Sections. Include the following:
 - 1. Name, address, and telephone number of representative making report.
 - 2. Statement on condition of substrates and their acceptability for installation of product.
 - 3. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 - 4. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 - 5. Other required items indicated in individual Specification Sections.
- C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.
- F. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- H. Manufacturer's Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- I. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:
 - 1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.

- c. Build laboratory mockups at testing facility using personnel, products, and methods of construction indicated for the completed Work.
- d. When testing is complete, remove test specimens, assemblies, and mockups; do not reuse products on Project.
- 2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.
- J. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
 - 1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
 - 2. Notify Architect seven days in advance of dates and times when mockups will be constructed.
 - Demonstrate the proposed range of aesthetic effects and workmanship.
 - 4. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
 - a. Allow seven days for initial review and each re-review of each mockup.
 - 5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
 - Demolish and remove mockups when directed unless otherwise indicated.
- K. Laboratory Mockups: Comply with requirements of preconstruction testing and those specified in individual Specification Sections.

1.7 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
 - 1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
 - 2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 - 1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.

- 2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
- 3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
- 4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
- 5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- C. Manufacturer's Field Services: Where indicated, engage a manufacturer's representative to observe and inspect the Work. Manufacturer's representative's services include examination of substrates and conditions, verification of materials, inspection of completed portions of the Work, and submittal of written reports.
- D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 - Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 - 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 - 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 - 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 - 6. Do not perform any duties of Contractor.
- F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 - 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 - 4. Facilities for storage and field curing of test samples.
 - 5. Delivery of samples to testing agencies.
 - 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - 7. Security and protection for samples and for testing and inspecting equipment at Project site.

- G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.8 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Conducted by a qualified testing agency as required by authorities having jurisdiction, as indicated in individual Specification Sections and as follows:
 - 1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviews the completeness and adequacy of those procedures to perform the Work.
 - 2. Notifying Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 - 3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect with copy to Contractor and to authorities having jurisdiction.
 - 4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 - 5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
 - 6. Retesting and reinspecting corrected work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Architect.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as

invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."

- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- Section includes requirements for temporary utilities, support A. facilities, and security and protection facilities.
- В. Related Requirements:
 - Section 011000 "Summary" for work restrictions and limitations on utility interruptions.

USE CHARGES 1.2

- General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to Architect, testing agencies, and authorities having jurisdiction.
- Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

INFORMATIONAL SUBMITTALS 1.3

- Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
- Erosion- and Sedimentation-Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- Fire-Safety Program: Show compliance with requirements of NFPA 241 and C. authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire prevention program.

1.4 **OUALITY ASSURANCE**

- Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

Accessible Temporary Egress: Comply with applicable provisions in [the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines] [and] [ICC/ANSI A117.1].

1.5 PROJECT CONDITIONS

Temporary Use of Permanent Facilities: Engage Installer of each Α. permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide galvanized-steel bases for supporting posts.

2.2 TEMPORARY FACILITIES

- Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- Common-Use Field Office: Of sufficient size to accommodate needs of В. Owner, Architect and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly.
- Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

2.3 EQUIPMENT

- Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, В. provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
 - 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
 - Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
 - Permanent HVAC System: If Owner authorizes use of permanent HVAC 3. system for temporary use during construction, provide filter with MERV of eight at each return-air grille in system and remove at end of construction and clean HVAC system as required in Section 017700 "Closeout Procedures".

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
 - 1. Locate facilities to limit site disturbance as specified in Section 011000 "Summary."
- Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

TEMPORARY UTILITY INSTALLATION 3.2

- General: Install temporary service or connect to existing service.
 - Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- Sewers and Drainage: Provide temporary utilities to remove effluent
 - 1. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.
- Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- Sanitary Facilities: Provide temporary toilets, wash facilities, and D. drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
- Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
- Ventilation and Humidity Control: Provide temporary ventilation F. required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
- G. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.

- Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
- Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line(s) for each field office.
 - Provide additional telephone lines for the following:
 - Provide a dedicated telephone line for each facsimile machine in each field office.
 - At each telephone, post a list of important telephone numbers.
 - a. Police and fire departments.
 - b. Ambulance service.
 - c. Contractor's home office.
 - d. Contractor's emergency after-hours telephone number.
 - e. Architect's office.
 - f. Engineers' offices.
 - q. Owner's office.
 - h. Principal subcontractors' field and home offices.
 - Provide superintendent with cellular telephone or portable twoway radio for use when away from field office.

3.3 SUPPORT FACILITIES INSTALLATION

- General: Comply with the following: Α.
 - 1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible according to ASTM E 136. Comply with NFPA 241.
 - 2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - Protect existing site improvements to remain including curbs, pavement, and utilities.
 - Maintain access for fire-fighting equipment and access to fire hydrants.
- Parking: Use designated areas of Owner's existing parking areas for C. construction personnel.
- Dewatering Facilities and Drains: Comply with requirements of D. authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 - Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
 - Remove snow and ice as required to minimize accumulations. 2.

- Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
 - Identification Signs: Provide Project identification signs as indicated on Drawings.
 - Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
 - Provide temporary, directional signs for construction personnel and visitors.
 - Maintain and touchup signs so they are legible at all times.
- F. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
 - Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

SECURITY AND PROTECTION FACILITIES INSTALLATION 3.4

- Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- Environmental Protection: Provide protection, operate temporary В. facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- Tree and Plant Protection: Install temporary fencing located as Ε. indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.

- Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
 - Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
 - Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to
 - 3. Fence shall include opaque fabric or blanket to not allow direct line of site into project area from public area.
- Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
 - Watchman Service
 - The Owner will not be responsible for loss due to theft or other damage which is not covered under Property Insurance. The Contractor shall make arrangements for watchman service as he considers necessary and he shall be responsible for all loss or damage of his property, equipment, material, etc. at the site, and he shall make good such damage or loss without any additional cost to the Owner.
- Barricades, Warning Signs, and Lights: Comply with requirements of I. authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- Temporary Egress: Maintain temporary egress from existing occupied J. facilities as indicated and as required by authorities having jurisdiction.
- Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, Κ. other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
 - Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.
- Temporary Fire Protection: Install and maintain temporary fire-L. protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire prevention program.
 - Prohibit smoking in construction areas.
 - Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings information.
 - Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-

protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.5 MOISTURE AND MOLD CONTROL

- Contractor's Moisture Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.
- Exposed Construction Phase: Before installation of weather barriers, В. when materials are subject to wetting and exposure and to airborne mold spores, protect materials from water damage and keep porous and organic materials from coming into prolonged contact with concrete.
- Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
 - Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
 - 2. Keep interior spaces reasonably clean and protected from water damage.
 - 3. Discard or replace water-damaged and wet material.
 - Discard, replace, or clean stored or installed material that begins to grow mold.
 - Perform work in a sequence that allows any wet materials adequate time to dry before enclosing the material in drywall or other interior finishes.
- Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
 - Control moisture and humidity inside building by maintaining effective dry-in conditions.
 - Remove materials that can not be completely restored to their 2. manufactured moisture level within 48 hours.

OPERATION, TERMINATION, AND REMOVAL 3.6

- Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- Maintenance: Maintain facilities in good operating condition until В. removal.
 - Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24hour basis where required to achieve indicated results and to avoid possibility of damage.
- Temporary Facility Changeover: Do not change over from using temporary C. security and protection facilities to permanent facilities until Substantial Completion.

- Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 - At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION 015000

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.
 - 1. Warranties for the Work and products and installations of each Contractor shall be one (1) year unless specified otherwise in the individual sections of Divisions 02 through 35.

B. Related Requirements:

1. Section 012500 "Substitution Procedures" for requests for substitutions.

1.2 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appe ``arance, and other characteristics that equal or exceed those of specified product.
- B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

1.3 ACTION SUBMITTALS

- A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will

notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

- a. Form of Approval: As specified in Section 013300 "Submittal Procedures."
- b. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.
- B. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 013300 "Submittal Procedures." Show compliance with requirements.

1.4 QUALITY ASSURANCE

A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.

B. Delivery and Handling:

- 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
- 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
- 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
- 4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

C. Storage:

- 1. Store products to allow for inspection and measurement of quantity or counting of units.
- 2. Store materials in a manner that will not endanger Project structure.
- 3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
- 4. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
- 5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
- 6. Protect stored products from damage and liquids from freezing.

1.6 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
 - 1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 - 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
 - Manufacturer's Standard Form: Modified to include Projectspecific information and properly executed.
 - Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
 - 3. Refer to other Sections for specific content requirements and particular requirements for submitting special warranties.

C. Warranty Requirements

- 1. Related Damages and Losses: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- 2. Reinstatement of Warranty: When Work covered has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- 3. Replacement cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.
- 4. Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, rights, and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights, or remedies.
 - a. Rejection of Warranties: The Owner reserves the rights to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
- 5. The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.

D. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
 - 1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 - 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 - 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 - 4. Where products are accompanied by the term "as selected," Architect will make selection.
 - 5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.

B. Product Selection Procedures:

- 1. Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- 2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
- 3. Products:
 - a. Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
 - b. Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product.

4. Manufacturers:

- a. Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered unless otherwise indicated.
- b. Nonrestricted List: Where Specifications include a list of available manufacturers, provide a product by one of the

manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed manufacturer's product.

- 5. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
- C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
 - 1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Section 012500 "Substitution Procedures" for proposal of product.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 COMPARABLE PRODUCTS

- A. Conditions for Consideration: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:
 - 1. Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
 - 2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - 3. Evidence that proposed product provides specified warranty.
 - 4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
 - 5. Samples, if requested.

PART 3 - EXECUTION (Not Used)

END OF SECTION 016000

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Field engineering and surveying.
 - 3. Installation of the Work.
 - 4. Cutting and patching.
 - 5. Coordination of Owner-installed products.
 - 6. Progress cleaning.
 - 7. Starting and adjusting.
 - 8. Protection of installed construction.

B. Related Requirements:

- 1. Section 011000 "Summary" for limits on use of Project site.
- Section 017700 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.2 INFORMATIONAL SUBMITTALS

A. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

1.3 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural element during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection
 - 2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
 - 3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
 - 4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities.

Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of inplace materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
 - Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and waterservice piping; underground electrical services, and other utilities.
 - Furnish location data for work related to Project that must be performed by public utilities serving Project site.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 - 1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
 - 2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
 - 3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located

in or affected by construction. Coordinate with authorities having jurisdiction.

- B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 013100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.
- B. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.

3.4 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - 1. Make vertical work plumb and make horizontal work level.
 - 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 - Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.

- F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. 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.
- I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of work to be cut.
- D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- E. Adjacent Occupied Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

- F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
 - 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 6. Proceed with patching after construction operations requiring cutting are complete.
- G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
 - 5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
- H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.

- 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
- 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 - 1. Remove liquid spills promptly.
 - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.7 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- D. Manufacturer's Field Service: Comply with qualification requirements in Section 014000 "Quality Requirements"
- 3.8 PROTECTION OF INSTALLED CONSTRUCTION
 - A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
 - B. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION 017300

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.

B. Related Requirements:

- 1. Section 013233 "Photographic Documentation" for submitting final completion construction photographic documentation.
- 2. Section 017823 "Operation and Maintenance Data" for operation and maintenance manual requirements.
- 3. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.
- 4. Section 017900 "Demonstration and Training" for requirements for instructing Owner's personnel.

1.2 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.3 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.
- B. Certificate of Insurance: For continuing coverage.
- C. Field Report: For pest control inspection.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.5 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

- B. Submittals Prior to Substantial Completion: Complete the following a minimum of ten days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 - 3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, keys and keying schedule, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable.
 - 5. Submit test/adjust/balance records.
 - 6. List of subcontractors, service organizations, and principal vendors, including names, addresses, and telephone numbers where they can be reached for emergency service at all times, including nights, weekends, and holidays.
 - 7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of ten days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Advise Owner of pending insurance changeover requirements.
 - 2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 - 3. Complete startup and testing of systems and equipment.
 - 4. Perform preventive maintenance on equipment used prior to Substantial Completion.
 - 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings specified in Section 017900 "Demonstration and Training."
 - 6. Advise Owner of changeover in heat and other utilities.
 - 7. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
 - 3. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - 9. Complete final cleaning requirements, including touchup painting.
 - 10. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of ten days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify

Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

- 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
- 2. Results of completed inspection will form the basis of requirements for final completion.

1.6 FINAL COMPLETION PROCEDURES

- A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:
 - 1. Submit a final Application for Payment according to Section 012900 "Payment Procedures."
 - 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 - 3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 - 4. Submit pest-control final inspection report and warranty.
 - 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings.
- B. Inspection: Submit a written request for final inspection to determine acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.7 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 - 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 - 3. Submit list of incomplete items in the following format:
 - Three paper copies unless otherwise indicated. Architect will return one copy.

1.8 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
 - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
 - 4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 - 1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:

- a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
- b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
- c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
- d. Remove tools, construction equipment, machinery, and surplus material from Project site.
- e. Remove snow and ice to provide safe access to building.
- f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
- g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
- h. Sweep concrete floors broom clean in unoccupied spaces.
- i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
- j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
- k. Remove labels that are not permanent.
- Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- m. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
- n. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
- o. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
- p. Leave Project clean and ready for occupancy.
- C. Pest Control: Comply with pest control requirements in Section 015000 "Temporary Facilities and Controls." Prepare written report.

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that

cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

- 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
- 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
- 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
- 4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 017700

SECTION 017823 - OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 SUMMARY

- Section includes administrative and procedural requirements for Α. preparing operation and maintenance manuals, including the following:
 - Operation and maintenance documentation directory.
 - 2. Emergency manuals.
 - 3. Operation manuals for systems, subsystems, and equipment.
 - 4. Product maintenance manuals.
 - 5. Systems and equipment maintenance manuals.

1.2 CLOSEOUT SUBMITTALS

- Manual Content: Operations and maintenance manual content is specified in individual Specification Sections to be reviewed at the time of Section submittals. Submit reviewed manual content formatted and organized as required by this Section.
 - 1. Architect will comment on whether content of operations and maintenance submittals are acceptable.
 - 2. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions.
- Format: Submit operations and maintenance manuals in the following formats:
 - PDF electronic file. Assemble each manual into a composite electronically indexed file. Submit on digital media acceptable to Architect.
 - Name each indexed document file in composite electronic index with applicable item name. Include a complete electronically linked operation and maintenance directory.
 - Enable inserted reviewer comments on draft submittals.
 - Three paper copies. Include a complete operation and maintenance directory. Enclose title pages and directories in clear plastic sleeves. Architect will return zero copies.
- Manual Submittal: Submit each manual in final form prior to requesting inspection for Substantial Completion and at least 15 days before commencing demonstration and training. Architect will return copy with comments.
 - 1. Correct or revise each manual to comply with Architect's comments. Submit copies of each corrected manual within 15 days of receipt of Architect's comments and prior to commencing demonstration and training.

PART 2 - PRODUCTS

REQUIREMENTS FOR EMERGENCY, OPERATION, AND MAINTENANCE MANUALS 2.1

Directory: Prepare a single, comprehensive directory of emergency, operation, and maintenance data and materials, listing items and their location to facilitate ready access to desired information.

- Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:
 - 1. Title page.
 - 2. Table of contents.
 - 3. Manual contents.
- Title Page: Include the following information:
 - 1. Subject matter included in manual.
 - 2. Name and address of Project.
 - 3. Name and address of Owner.
 - 4. Date of submittal.
 - 5. Name and contact information for Contractor.
 - 6. Name and contact information for Construction Manager.
 - 7. Name and contact information for Architect.
 - 8. Name and contact information for Commissioning Authority.
 - 9. Names and contact information for major consultants to the Architect that designed the systems contained in the manuals.
 - 10. Cross-reference to related systems in other operation and maintenance manuals.
- Table of Contents: List each product included in manual, identified by D. product name, indexed to the content of the volume, and crossreferenced to Specification Section number in Project Manual.
- Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
- Manuals, Electronic Files: Submit manuals in the form of a multiple F. file composite electronic PDF file for each manual type required.
 - Electronic Files: Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
 - File Names and Bookmarks: Enable bookmarking of individual 2. documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.
- Manuals, Paper Copy: Submit manuals in the form of hard copy, bound and labeled volumes.
 - Binders: Heavy-duty, three-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
 - Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents, and indicate

Specification Section number on bottom of spine. Indicate volume number for multiple-volume sets.

- Dividers: Heavy-paper dividers with plastic-covered tabs for each section of the manual. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
- Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software storage media for computerized electronic equipment.
- Drawings: Attach reinforced, punched binder tabs on drawings and 4. bind with text.
 - If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
 - b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

EMERGENCY MANUALS 2.2

- Content: Organize manual into a separate section for each of the following:
 - 1. Type of emergency.
 - 2. Emergency instructions.
 - 3. Emergency procedures.
- Type of Emergency: Where applicable for each type of emergency indicated below, include instructions and procedures for each system, subsystem, piece of equipment, and component:
 - 1. Fire.
 - 2. Flood.
 - 3. Gas leak.
 - 4. Water leak.
 - 5. Power failure.
 - 6. Water outage.
 - 7. System, subsystem, or equipment failure.
 - 8. Chemical release or spill.
- C. Emergency Instructions: Describe and explain warnings, trouble indications, error messages, and similar codes and signals. Include responsibilities of Owner's operating personnel for notification of Installer, supplier, and manufacturer to maintain warranties.
- Emergency Procedures: Include the following, as applicable:
 - 1. Instructions on stopping.
 - Shutdown instructions for each type of emergency.
 - 3. Operating instructions for conditions outside normal operating limits.
 - 4. Required sequences for electric or electronic systems.
 - Special operating instructions and procedures.

2.3 OPERATION MANUALS

- A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:
 - 1. System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.
 - 2. Performance and design criteria if Contractor is delegated design responsibility.
 - 3. Operating standards.
 - 4. Operating procedures.
 - 5. Operating logs.
 - 6. Wiring diagrams.
 - 7. Control diagrams.
 - 8. Piped system diagrams.
 - 9. Precautions against improper use.
 - 10. License requirements including inspection and renewal dates.
- B. Descriptions: Include the following:
 - 1. Product name and model number. Use designations for products indicated on Contract Documents.
 - 2. Manufacturer's name.
 - 3. Equipment identification with serial number of each component.
 - 4. Equipment function.
 - 5. Operating characteristics.
 - 6. Limiting conditions.
 - 7. Performance curves.
 - 8. Engineering data and tests.
 - 9. Complete nomenclature and number of replacement parts.
- C. Operating Procedures: Include the following, as applicable:
 - 1. Startup procedures.
 - 2. Equipment or system break-in procedures.
 - 3. Routine and normal operating instructions.
 - 4. Regulation and control procedures.
 - 5. Instructions on stopping.
 - 6. Normal shutdown instructions.
 - 7. Seasonal and weekend operating instructions.
 - 8. Required sequences for electric or electronic systems.
 - 9. Special operating instructions and procedures.
- D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
- E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.4 PRODUCT MAINTENANCE MANUALS

- A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For

each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

- Product Information: Include the following, as applicable:
 - 1. Product name and model number.
 - 2. Manufacturer's name.
 - 3. Color, pattern, and texture.
 - 4. Material and chemical composition.
 - 5. Reordering information for specially manufactured products.
- Maintenance Procedures: Include manufacturer's written recommendations and the following:
 - Inspection procedures. 1.
 - 2. Types of cleaning agents to be used and methods of cleaning.
 - 3. List of cleaning agents and methods of cleaning detrimental to product.
 - 4. Schedule for routine cleaning and maintenance.
 - 5. Repair instructions.
- Repair Materials and Sources: Include lists of materials and local sources of materials and related services.
- Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
- 2.5 SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS
 - Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.
 - Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.
 - Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including the following information for each component part or piece of equipment:
 - Standard maintenance instructions and bulletins.
 - Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly.
 - Identification and nomenclature of parts and components.
 - List of items recommended to be stocked as spare parts.
 - Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:
 - 1. Test and inspection instructions.

- 2. Troubleshooting guide.
- 3. Precautions against improper maintenance.
- Disassembly; component removal, repair, and replacement; and reassembly instructions.
- 5. Aligning, adjusting, and checking instructions.
- 6. Demonstration and training video recording, if available.
- Ε. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
- Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.
- Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
- Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

PART 3 - EXECUTION

MANUAL PREPARATION 3.1

- Emergency Manual: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by Owner's operating personnel for types of emergencies indicated.
- Product Maintenance Manual: Assemble a complete set of maintenance В. data indicating care and maintenance of each product, material, and finish incorporated into the Work.
- Operation and Maintenance Manuals: Assemble a complete set of C. operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.
- Manufacturers' Data: Where manuals contain manufacturers' standard D. printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.
- Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.
 - 1. Do not use original project record documents as part of operation and maintenance manuals.

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F. Comply with Section 017700 "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION 017823

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
 - 3. Record Product Data.

B. Related Requirements:

1. Section 017823 "Operation and Maintenance Data" for operation and maintenance manual requirements.

1.2 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set of marked-up record prints.
 - 2. Number of Copies: Submit copies of record Drawings as follows:
 - a. Initial Submittal:
 - 1) Submit one paper-copy set of marked-up record prints.
 - 2) Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
 - b. Final Submittal:
 - 1) Submit three paper-copy sets of marked-up record prints.
 - 2) Submit PDF electronic files of scanned record prints and three sets of prints.
 - Print each drawing, whether or not changes and additional information were recorded.
- B. Record Specifications: Submit one paper copy and one annotated PDF electronic files of Project's Specifications, including addenda and contract modifications.
- C. Record Product Data: Submit one paper copy and annotated PDF electronic files and directories of each submittal.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised Drawings as modifications are issued.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

- Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
- b. Record data as soon as possible after obtaining it.
- c. Record and check the markup before enclosing concealed installations.
- Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
- Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
- Note Construction Change Directive numbers, alternate numbers, Order numbers, and similar identification, where applicable.
- Format: Identify and date each record Drawing; include the designation В. "PROJECT RECORD DRAWING" in a prominent location.
 - Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 - Format: Annotated PDF electronic file.
 - Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

- Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.
 - Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 - Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
 - Note related Change Orders, record Product Data, and record Drawings where applicable.
- Format: Submit record Specifications as paper copy and scanned PDF electronic file(s) of marked-up paper copy of Specifications.

RECORD PRODUCT DATA 2.3

- Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 - 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.

- 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
- 3. Note related Change Orders, record Specifications, and record Drawings where applicable.
- B. Format: Submit record Product Data as paper copy and scanned PDF electronic file(s) of marked-up paper copy of Product Data.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's and Construction Manager's reference during normal working hours.

END OF SECTION 017839

SECTION 02082 - ASBESTOS ABATEMENT:

PART 1 - GENERAL

1.1 WORK INCLUDES

A. Base Bid:

- General: Asbestos Abatement (proper removal and disposal) of Category II Transite Curtain Wall on the Zoo Aviary Tropics Classroom Front Round, located at Peoria Zoo "Owner", Glen Oak Park, 2320 N. Prospect, Peoria, Illinois. This work may be performed in 1 Phase and includes proper and skillful removal of asbestos-containing Transite Curtain Wall materials.
 - a. The Asbestos abatement work may be performed in one (1) phase while the building may remain partially occupied. Refer to Division 0 and coordinate with the General Contractor ("GC") for Asbestos Abatement and future Curtain Wall (transite) removal work. The Asbestos Abatement Contractor will have 5 work days for transite curtain wall material removal at the Zoo Aviary Tropics Classroom Building. AC to coordinate schedules with the GC for proper removal / disposal of transite materials. AC shall only remove a quantity of Curtain Wall that can be covered (temporarily or permanently) by the GC to weather tight conditions for each work day.
 - b. Asbestos Inspection and sample analysis results are available from OWNER.
 - c. This specification was written expressly for use on this limited Asbestos Abatement Project only. Any form of reproduction of this specification section in part or its entirety for use on other projects, without McKee Environmental, Inc. (MEI) written permission is strictly forbidden. MEI shall in no way be held liable if this asbestos abatement specification section or portions of this specification section is reproduced without their expressed written consent.
- 2. Asbestos Abatement Contractor ("CONTRACTOR" or "AC") shall provide the following:
 - a. The AC shall furnish all labor, materials and equipment necessary for and reasonably incidental to the completion of all abatement work, including transportation and proper disposal of all items of asbestos abatement services, insurance and facilities. All work is to be performed in accordance with this document, all applicable Illinois Department of Public Health (IDPH) Rules and Regulations for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings; EPA regulations, Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP); and OSHA regulations, and other applicable Federal, State and Local regulations. Several of the regulations are incorporated by reference in Section 1.3 in order to conduct adequate precautions against asbestos contaminant exposure to any person(s), building or the environment. The AC shall complete proper and skillful removal and disposal of Category II non-friable material and prevent it from becoming Regulated Asbestos Containing Materials (RACM) as described by the following:
 - b. AC shall field verify locations, quantity and extent of ACM prior to bidding.
 - c. AC shall coordinate with Owner and/or GC to verify shutdown and Lockout of electrical and HVAC systems in the abatement Regulated Areas. AC shall seal ventilation openings in the work area with 2 layers of 6 mil polyethylene sheeting.
 - d. AC shall develop and submit a work schedule to be coordinated with Owner and General Contractor, ("GC") prior to commencement of work.
 - e. AC shall coordinate with Owner and/or Owner's designated agent to determine the location of the dumpsters to be used to dispose of the asbestos waste. AC shall use clear removal/disposal bags to allow visual inspection of waste.

- f. AC shall use proper Fall Protection per OSHA. AC shall establish Regulated Area(s) for the work. AC shall seal off (isolate) the interior of the building from the work area where any of the transite may become exposed or damaged during non-friable (intact) removal methods. If intact methods are not feasible, the AC shall use full containment methods for ACM removal with required Clearance Air Monitoring.
- g. AC shall coordinate with GC for removal/replacement of any items that may interfere with the transite curtain wall removal (e.g., conduit, ductwork, pipes, etc.). AC shall assist with removal of any fasteners that may penetrate into the transite. AC shall use a combination of amended water, HEPA vacuums and shaving cream, etc. during screw, nail or mechanical fastener removal.
- h. AC shall provide and utilize a three-chambered decontamination unit, with adjustable hot & cold running water and cascaded filtered units on drain lines from showers or any other water source carrying asbestos-contaminated water from the work area. Final filter water to remove all particles 5 microns and larger at the site.
- i. The AC shall employ Gross Removal (full containment) Methods for the following materials and situations: all <u>Vinyl Sheet goods</u> (resilient sheet flooring); <u>TSI</u> or <u>miscellaneous materials</u> (where proper glovebag techniques are not feasible); <u>Interior transite materials</u> (where proper non-friable (intact) removal techniques are not possible and exterior transite where breakage occurs; "Wrap & Cut" of whole components or sections of TSI components removal techniques; and floor tile/mastics or other non-friable materials where the materials has or will become RACM.
- j. AC shall ensure all clearance air testing meets IDPH requirements prior to containment tear down activities.
- k. AC shall remove all ACM using appropriate respiratory protection, according to all OSHA Requirements, wearing a minimum half-face APR w/ p100 cartridges, minimum, during all ACM removal or ACM disturbance activities.
- I. AC shall provide:
 - 1) Cleanup & disposal of asbestos containing materials & disposable equipment.
 - 2) Regulatory notices as required and sign Waste Shipment Records.
 - 3) Protect persons, property and comply with OSHA, IDPH & EPA requirements.
 - 4) Submit to Owner and Architect prior to commencement of work documentation from manufacturers' that any mastic remover and lock down encapsulant to be used are compatible with all replacement materials.
 - 5) Signs and barrier tape necessary to demarcate Regulated Areas.
 - 6) Fall Protection measures and training and Work area preparation.
 - 7) Temporary utilities (electricity & water) for asbestos abatement and workers.
 - 8) Reestablish work areas.
- m. AC shall submit copies of all licenses and certifications applicable to the abatement work to Owner prior to commencement of work.
- n. AC shall maintain insurance requirements described by the Architect in other Specification Divisions, including at least \$2,000,000.00 Pollution Liability with Asbestos Abatement Liability Coverage. The policy <u>must</u> be "occurrence based" and be contracted with a firm licensed to sell insurance in Illinois. The liability coverage must be underwritten by a corporation with home office in the U.S. and incorporated under the statutes of one of the fifty states of the U.S. The AC shall provide a copy of its Certificate of Insurance naming Peoria Park District / Peoria Zoo (OWNER), Apace Design Inc. & McKee Environmental, Inc. (MEI) as additional insured.

B. By Others:

- 1. By Industrial Hygienist / Consultant (McKee Environmental, Inc.):
 - a. Perform required clearance air sampling and analysis where agreed to in writing with OWNER.
 - b. OWNER may elect to provide full time asbestos project management/air sampling professional (APM/ASP) services during all AC on site activities.

2. By General Contractor ("GC"):

a. Perform removal & reinstall of any fixed items (e.g., HVAC, ductwork, piping, equipment, etc.) in the work area as necessary prior to AC beginning. NOTE: AC shall remove any fasteners that penetrate through or into the transite of the curtain wall. AC shall use a combination of amended water, HEPA vacuums and shaving cream, etc as necessary to prevent airborne fibers. Coordinate with AC and mark exact Transite Curtain Wall removal locations.

3. By Owner:

- a. Perform its responsibilities in accord with referenced Parts of the Rules and Regulations. Arrange for independent Clearance Air Monitoring, where applicable following AC work.
- b. Provide for the removal of equipment & supplies, partition walls, etc., and any salvageable materials prior to abatement activities.

1.2 RELATED WORK

A. Specified elsewhere in Division 2 through 16.

1.3 REGULATORY REQUIREMENTS / REFERENCES

The CONTRACTOR shall comply, at a minimum, with the latest requirements of the following regulations governing proper asbestos removal and disposal.

A. Federal Requirements:

- 1. U.S. Environmental Protection Agency (USEPA) Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP). 40 CFR 61, Subpart M.
- 2. U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Asbestos Regulations (Code of Federal Regulations Title 29, Part 1926, Section 1926.1101), Fall Protection (1926.501, 1926.502 & Publication 3755) and respiratory protection (29CFR 1910.134).
- 4. USEPA Code of Federal Regulations Title 40, Part 763 Subpart G.
- 5. U.S. Department of Transportation, "Hazardous Substance Final Rule", 49 CFR 171 & 172.

B. State Requirements:

- 1. IEPA Illinois Environmental Protection Agency (NESHAP Administration & Coordination).
- 2. Illinois Department of Public Health Rules and Regulations for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings.

C. Other References and Requirements

- 1. Resilient Floor Covering Institute; RFCI, "Recommended Work Practices for Removal of Resilient Floor Coverings".
- 2. ASTM, American Society for Testing and Materials; ANSI, American National Standards Institute (ANSI Z 9.2 Fundamental Governing the Design and Operations of Local Exhaust Systems); ULI, Underwriters Laboratories, Inc.; OSHA Regulations including OSHA 300 Log.

1.4 FIELD QUALITY CONTROL

A. AC shall provide OWNER:

- 1. OSHA Required Air monitoring results of own personnel. Provide a copy of all results within 24 hours after sampling.
- 3. Documentation that AC is licensed by IDPH for asbestos abatement activities.
- 4. Documented evidence that all workers are licensed as Abatement Workers by IDPH.
- 5. Documentation that at least one employee to be on-site at all times while abatement is being performed is licensed as an Asbestos Supervisor as required by IDPH.
- 6. **Respirators:** Submit a written standard operating procedure governing the selection, fit testing, cleaning, use and storage of respirators in accordance with 29 CFR 1926.1101 and as outlined in 29 CFR 1910.134.
- 7. **Medical Examination:** Submit proof that personnel that will be entering contaminated areas have received a medical examination by a licensed and qualified physician and furnish the results of physician's written authorization to wear respiratory protection. Comply with all Federal and State Regulations, including 29 CFR 1910.20 for access to employee exposure and medical records and their confidentiality.

1.5 SUBMITTALS AND NOTICES

- A. Prior to Commencement of Work, AC shall:
 - Notify in writing of proposed asbestos work using appropriate form with copy to OWNER,
 The USEPA regional office, IEPA Division of Air Pollution Control and, if required, IDPH
 and OSHA regional office with jurisdiction over the State in which this project is located, not
 fewer than ten (10) working days before work commences on this project.
 - a. USEPA Region V
 Regulation Development Branch
 Mail Code 5 ARD 26
 230 S. Dearborn St.
 Chicago, IL 60604
 (312) 353-2088
 - b. IEPA Illinois Environmental Protection Agency Division of Air Pollution
 P.O. Box 19276
 Springfield, IL 62794-9276
 (217) 785-1743

- Submit proof satisfactory to the OWNER that all required permits, site location and arrangements for transport and disposal of asbestos-containing or contaminated materials, supplies, and the like have been obtained.
- 3. Submit documentation to OWNER indicating that all employees have had instruction on the hazards of asbestos exposures, on proper selection, use, fitting and cleaning of respirators, on protective clothing, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures.
- 4. Submit documentation to OWNER showing that all employees engaged in asbestos activities have received appropriate medical examinations and Pulmonary Function Tests (PFT) to authorize wearing of respiratory protection that is signed by a licensed and qualified physician within the last 12 months immediately preceding the project startup. No worker will be allowed in the work area with expired documentation.
- 5. Public Warnings and Safety Information to be Posted and on site:
 - a. Post all signs as required by 29 CFR 1926.1101and 29 CFR 1910.145 and any Local, State, or Federal regulations
 - A copy of the USEPA Regulations for Asbestos (Code of Federal Regulations Title 40, Part 61, Subpart A and M) and a copy of USDOL – OSHA Asbestos Regulations (29 CFR 1926.1101 and 1910.1001) and respiratory protection (29 CFR 1910.134).
 - c. A list of phone numbers for the local hospital and/or emergency squad, local fire department, the institution's security office (if applicable), a representative of the building owner who may be reached 24 hours a day, the AC's Supervisor and Office phone numbers, and any other professional Consultants directly involved in the project.
- 6. Submit manufacturer's certification that vacuums, ventilation equipment, and other equipment required to contain asbestos fibers conform to ANSI Z 9.2.

1.6 PROTECTION

A. Provide appropriate protection for personnel, building, and environment in accordance with the Section 1.3 Regulatory Requirements / References and all other applicable Rules and Regulations.

1.7 PROJECT/SITE CONDITIONS

- A. Refer to OWNER for Asbestos Inspection Summary Report of asbestos containing materials.
- B. Lockout/tagout of existing electrical will be supplied by the CONTRACTOR.
- C. CONTRACTOR shall be required to provide Temporary power and establish Ground Fault Circuit Interrupter Devices (i.e. GFCI protected circuits) for all lighting and equipment.
- D. Provisions for water shall be the responsibility of the CONTRACTOR.

1.8 SEQUENCING/SCHEDULING

A. Coordinate with GC and submit a Construction Schedule. Perform all work in accord with approved schedule.

1.9 WARRANTY

A. Warrant all work in accord with General Conditions for a time period of one year.

PART 2 - PRODUCTS/EQUIPMENT

2.1 ASBESTOS ABATEMENT EQUIPMENT

A. Use only materials and equipment complying with State and Federal Rules and Regulations.

2.2 ACCEPTABLE MANUFACTURER/PRODUCTS

A. Wetting Agent:

1.	Better Working Environments	Super Wet
2.	Certified Technologies	Certane 2075
3.	Eppert Oil Co.	Speedi-Wet
4.	Foster Products Corp.	32-90

B. Combination Wetting Agent – Encapsulant:

1.	Better Working Environments	5100
2.	Certified Technologies	Certane 707
3.	Eppert Oil Co.	Fiber Seal
4.	Foster Products Corp.	32-60

C. Lockdown Encapsulant:

1.	Better Working Environments	3100
2.	Certified Technologies	Certane 1050
3.	Eppert Oil Co.	Fiber-Seal
4.	Foster Products corp.	32-60

- D. Mastic Removal (**NOTE**: Mastic removers must have a flash point greater than 200 F and lower explosive limit greater than 5%). AC shall
 - 1. Submit product information sheet and MSD sheet for proposed mastic removers for review. Product data submitted must be for the material used on project site.

. . . .

2. Use mastic remover manufacturer's recommended procedures and materials to thoroughly clean floor surfaces after mastic removal. Coordinate with Architect & Flooring Contractor.

PART 3 - EXECUTION

3.1 INTACT TRANSITE CURTAIN WALL REMOVAL & WASTE DISPOSAL

- A. Perform all preparation work in accord with applicable referenced parts of the IDPH, OSHA and IEPA Rules and Regulations. AC shall use Fall Protection as required by OSHA and best industry practices.
- B. Establish Regulated Areas (RA) and respiratory protection as required by OSHA and perform all work in accord with IDPH, OSHA and IEPA Asbestos NESHAP Rules and Regulations. Coordinate with GC and Owner to properly lockout/tag out any energy sources and use GFCI in the RA, shut down HVAC systems in the RA and isolate any HVAC air intake sources with 2 layers of 6 mil poly during abatement activities.
- C. AC's Competent Person shall continuously inspect the areas for any penetrations to inside building or conditions that may create safety hazards and provide all critical seals and implement all necessary safety controls. The AC at their discretion and as deemed necessary may submit written variance requests in advance to appropriate regulatory agencies.
- D. Asbestos abatement shall not commence until:
 - 1. Arrangements have been made for disposal of asbestos waste at an approved site.
 - 2. Arrangements have been made for ensuring no visible emissions and containing and disposal of waste and water resulting from wet removal methods and decontamination.
 - 3. Isolate all energy sources and use GFCI for electricity provided to project.
 - 4. HVAC in work area are shut down and air intakes sealed with 2 layers of 6-mil poly.
 - 5. Fall Protection as required by OSHA and industry best practices have been established.
 - 6. Tools, equipment and material waste receptors are on site.
 - 7. Arrangements have been made for controlling Regulated Areas.
 - 8. Preparatory steps have been taken and applicable notices posted and permits obtained.
 - 9. HEPA filtered negative air equipment is installed and operating, as necessary.
- E. AC to coordinate with GC the exact locations of transite material removal each day. AC to perform proper and skillful removal and disposal of all transite materials. AC must use a qualified and experienced IDPH Licensed Supervisor (competent person) for removal of asbestos-containing transite curtain wall materials. Employees involved with the removal must be OSHA Asbestos Class II trained (32 hour training from an EPA accredited course), preferably IDPH licensed asbestos abatement Worker. All personnel shall also be adequately trained in Fall Protection according to OSHA regulation.
- F. AC shall seal off (isolate) the interior of the building from the work area where any of the transite may become exposed or damaged during non-friable (intact) removal methods. If intact methods are not feasible, the AC shall use, at no additional cost to the Owner, full containment methods for ACM removal.
- G. AC shall coordinate with GC for removal/replacement of any items that may interfere with the transite curtain wall removal (e.g., conduit, ductwork, pipes, etc.). AC shall assist GC with removal of any fasteners that may penetrate into the transite. AC shall use a combination of amended water, HEPA vacuums and shaving cream, etc. during screw or nail removal. Provide temporary and adequate bracing and support for any items that are disconnected.
- H. Perform intact (non-friable) removal of Curtain Wall containing transite following all the latest work practices and procedures according to IDPH, IEPA & OSHA, as applicable, to maintain materials as Category II non-friable; including but not limited to, the following:
 - Regulate the work area and protect the ground, any scaffold and concrete surfaces in work areas with secured disposable drop cloth poly sheeting or tarps. Thoroughly clean the work areas and dispose of removed ACM and protective materials at the conclusion of the work shift.
 - 2. Cutting, abrading, or breaking of transite shall be prohibited.

- 3. Use intact removal methods to the greatest extent feasible. Spray any exposed transite materials with amended water prior to removal, unless such wet methods are not feasible or will create a safety hazard as determined by the AC Competent Person. Do NOT create a safety hazard when using amended water.
- 4. Ensure no visible emissions during panel removal. Use a combination of HEPA-vacuuming and wet methods for clean-up of all work surfaces, following panel removal as necessary. Do NOT use dry sweeping or compressed air for cleaning.
- 5. Unwrapped or un-bagged curtain wall panels or sections shall be immediately lowered to the ground via covered dust-tight chute, or using a crane or hoist, or placed in an impervious waste bag or wrapped in plastic sheeting and lowered to the ground no later than the end of the work shift.
- Upon being lowered to the ground via crane or hoist, unwrapped material shall be immediately transferred to a secured, leak-tight receptacle designated for asbestos waste materials. AC to perform activities in such a manner so as to preclude the dispersion of dust (create no visible emissions).
- I. Should any Transite become friable during the intact removal process, then the AC shall be utilize gross removal methods (outlined Sections 3.2 & 3.3) at no additional cost to the OWNER.
- J. Disposal:
 - 1. Label all bags or containers containing asbestos debris with a label as follows:

Peoria Zoo 2320 N. Prospect Peoria, IL 61603

- 2. Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post signs in accord with the 1990 NESHAP STANDARD-DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
- 3. Transport all waste to an IEPA approved landfill. 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 OWNER.

3.2 PREPARATION FOR GROSS REMOVAL (Where Intact Transite Curtain Wall Removal is NOT Feasible)

- A. Perform all preparation work in accord with applicable referenced parts of the Rules and Regulations.
- B. Establish a Regulated Area:
 - 1. Thoroughly pre-clean the entire regulated area including movable and immovable objects using HEPA filtered vacuums and wet methods.
 - 2. Shut down ventilation to work areas where required and seal vents with <u>two layers</u> of 6-mil plastic sheeting and tape.
 - Seal all openings including windows and doorways between work area and other areas
 not necessary for entry with a minimum of one layer of 6-mil plastic sheeting and duct
 tape.
 - Cover walls not included in the removal scope of work with a minimum of one layer of 4mil <u>plastic sheeting</u> and cover ground/floors not being abated with a minimum of one layer of 6-mil plastic sheeting.
 - 5. Cover immovable objects within the work area with a minimum of one layer of 6-mil plastic sheeting.
 - 6. Deactivate electrical circuits in the enclosure and bring power into the work area from outside sources protected by ground fault circuit interrupters at the source.
 - 7. Establish adequate HEPA filtered exhaust system in the area of work, according to IDPH.
 - 8. Install appropriate warning signs.

- 9. Install a decontamination unit (DCU) attached to the work area. The DCU to contain:
 - a. An equipment room with two curtained doorways, one to the work area and one to the shower room
 - b. A shower room with two curtained doorways, one to the equipment room and one to the clean room. Shower room shall contain at least one shower with hot and cold running water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of soap at all time in the shower room. Shower water shall be filtered to remove asbestos prior to being discharged to sanitary sewer drain or barrel.
 - c. A Clean room with one curtained doorway into the shower and one entrance or exit to non-contaminated areas of the building. Clean room shall have sufficient space for proper storage of worker's street clothes, towels, and other non-contaminated items. Clean room shall also store fresh, non-contaminated protective clothing, respirators, and any other accessory to be used by workers in the work area.
 - d. Provide cascaded filtered units on drain lines from showers or any other water source carrying asbestos-contaminated water from the work area. Final filter to filter all particles 5 microns and larger.
 - e. A portable decontamination unit may be used.
- 10. Asbestos abatement shall not commence until:
 - a. Arrangements have been made for disposal of waste at an acceptable site.
 - Arrangements have been made for containing and disposal of waste water resulting from wet stripping.
 - c. Work areas and decontamination enclosure systems and parts of the building required to remain in use or not abated are effectively segregated.
 - Tools, equipment and material waste receptors are on site.
 - e. Arrangements have been made for building security.
 - f. Preparatory steps have been taken & applicable notices posted and permits obtained.
 - HEPA-Filtered Negative air systems are installed and operating per IDPH and OSHA.

3.3 PERFORMANCE OF GROSS REMOVAL (Where Intact Transite Curtain Wall Removal is NOT Feasible)

- A. Perform all asbestos gross removal work in accord with applicable referenced Parts of the Rules and Regulations.
- B. Spray asbestos material with amended water, using spray equipment capable of proving a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excess dripping or delamination of the material. Spray the asbestos material repeatedly during the work process to maintain wet condition and minimize asbestos fiber dispersion.
- C. Remove the saturated asbestos material in a manner judged to be most efficient. Removal shall be thorough and complete to the base surface. The saturated asbestos materials shall be packed in sealable plastic bags or barrels and placed in labeled containers for transport. Materials shall not be allowed to dry out prior to insertion into the containers.
- D. Seal filled containers. Clean external surfaces of containers thoroughly by wet wiping methods in the designated area of the work area, which is part of the equipment decontamination enclosure system. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal to uncontaminated areas. Ensure that containers are removed from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls. Ensure that workers do not enter from uncontaminated areas into the washroom or the work area; ensure that contaminated workers do not exit the work area through the equipment decontamination enclosure system.

E. After completion of stripping work, all exposed and accessible surfaces shall be HEPA filtered vacuumed to remove residual asbestos materials. In areas where stripping of asbestos materials from a hard substrate is performed, all surfaces from which asbestos has been removed shall be brushed (wire or nylon), or wet wiped to remove all visible material. During all phases of this work, the surfaces being cleaned shall be kept wet. All standing water, removed and containerized ACM shall be removed by the end of the work day.

F. Disposal:

1. Label all bags or containers containing asbestos debris with a label as follows:

Peoria Zoo 2320 N. Prospect Peoria, IL 61603

- Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post signs in accord with the 1990 NESHAP STANDARD-DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
- 3. Transport all waste to an IEPA approved landfill. 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 OWNER.

3.4 Cleanup:

- A. Perform all cleanup operations in accord with referenced parts of the Abatement Act, Subpart D.
 - 1. Cleanup Procedures
 - 2. Equipment and Waste Container Removal Procedures
 - 3. Clearance Air Monitoring and Analysis
 - 4. Disposal Procedures

3.5 Field Quality Control

- A. The Contractor shall provide air monitoring as necessary to comply with OSHA.
- B. When applicable, the Consultant will employ and pay for an approved Testing Laboratory to perform air testing of inside containment areas in accord with the Abatement Act, Part 855.170. The Asbestos Abatement Contractor shall pay any additional costs, which arise from failure of air testing results (or inconclusive results from particulate overloading, etc.) and may include costs for services of APM, ASP, laboratory, for Consultant.
- C. The OWNER may retain full-time IDPH Licensed Asbestos Project Manager (APM) services on the site at all times during the performance of all asbestos contractor activities.
- D. The OWNER may retain an Air Sampling Professional on the site to perform air sampling during the performance of all asbestos contractor activities. Subject to the APM's approval, the person may be IDPH licensed as both an APM and ASP and perform the combined duties.

3.6 Clearance Air Monitoring of Containments

- A. After the final thorough cleaning and prior to tear down and removal of any containments/ regulated areas, the AC shall coordinate with OWNER to conduct a visual inspection prior to clearance air sampling in accordance with 855.220.d.1, where applicable.
- B. Following the completion of required visual inspection and completion of the AC required response actions, the OWNER shall retain McKee Environmental, Inc., qualified, independent and IDPH licensed air sampling professional (ASP) to perform Phase Contrast Microscopy (PCM) clearance air monitoring to satisfy IDPH requirements for containments. The PCM clearance air samples must be collected aggressively, while the HEPA filtered negative air machines remain operational. The PCM air sample result, as determined by an AIHA PAT

- approved laboratory, must be less than 0.01 fiber per cubic centimeters (F/cc) for the regulated area (containment) to be acceptable for tear down activities (removal of the containment / regulated area) and re-occupancy by the general public, other contractors and trades or unauthorized individuals.
- C. The ASP (Consultant) will employ and pay for an approved Testing Laboratory to perform clearance air analysis in accord with the Abatement Act, Part 855.170. The Asbestos Abatement Contractor shall pay any additional costs, which arise from failure of air clearance testing results (or inconclusive results from particulate overloading) and may include costs for services of APM, ASP, additional PCM analysis by an AIHA PAT approved lab, and Consultant.

3.7 Re-establishment of Work Area & HVAC Systems

A. Perform the work in accordance with Abatement Act, Subpart D (855.240).

3.8 ATTACHMENTS

- A. IEPA / IDPH Notification of Renovation and Demolition Form.
- B. Available from OWNER: Asbestos Inspection Summary Report & Analytical Results prepared by McKee Environmental Inc.

02082 Specification (11 pages) Prepared -

For:

Peoria Park District:
Commercial Building Renovation, Transite Curtain Wall Removal
Peoria Zoo Aviary Tropics Classroom Front Round
Peoria, IL

By:

McKee Environmental, Inc. 430 Grimm Road Congerville, Illinois 61729 309-275-1900

Brad L. M^cKee, CIH # CP 7664 (CIH) IDPH #: 100-1758; Expires 5/15/18 (License); 3/2/17 (Refresher) August 5, 2017

END OF SECTION 02082

Drawings

No Drawings Provided with this Technical Specification Section. Refer to apaceDesign drawings for location / detail of work

DIVISION 2 – SITE WORK

Section 02091

Lead Hazard Control:

Paint Repair: Scrape Loose Lead-Containing Paint on Steel Window Frames

PART 1 – GENERAL

WORK INCLUDES

Base Bid:

Paint Repair Contractor ("Contractor" or "PRC") shall provide all labor, materials, tools, equipment, services, and incidental items necessary to perform Lead Hazard Control of window frames with lead-containing paint repair (remove loose, peeling, flaking paint down to a suitable substrate as determined by the Painter or Painting Contractor) in accordance with these specifications at Peoria Zoo, Aviary Tropics Classroom Front Round, Peoria, IL. This scope of work and specifications Do Not include or address other Lead Hazard Control options for the window frames, including demolition of window systems (Frame Removal) or covering (Enclosure) of lead hazards with a laminate material (e.g., aluminum or similar material, etc.).

RELATED DOCUMENTS

Refer to Owner and Architect for any general provisions of Contract, including General and Supplementary Conditions and other Division 1 Specification Sections applicable to this work.

REFERENCES

The Contractor shall comply with the latest requirements of applicable regulations governing lead abatement and disposal, silica exposure, respiratory protection, hazard communication (Haz-Com) and any other applicable Federal, State, and Local Government regulations. The following are included for reference:

- U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Lead Exposures in Construction Standard; 29 CFR 1926.62
- U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Silica Standard; 29 CFR 1926.1153
- U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Hazard Communication, 29 CFR 1926.1200

Occupational Safety and Health Administration (OSHA) Respiratory Protection Standard; 29 CFR 1910.134

Illinois Department of Public Health (IDPH) Lead Poisoning Prevention Code, Title 77 Part 845

Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, June, 1995.

U.S. EPA Renovation, Repair and Painting, April 2010 and Amendments; 40 CFR 745.89

DEFINITIONS

Building Owner—the owner or his authorized representative.

Authorized Visitor—the building owner or a representative of any regulatory or other agency having jurisdiction over the project.

Abatement—procedures to control dust release from lead-containing building materials, including encapsulation, enclosure, removal.

Removal- procedures necessary to strip all lead-containing materials from the designated areas and to dispose of these materials at an acceptable site.

Encapsulation- procedures necessary to coat all applied lead-containing materials or materials originating from such applied materials with an encapsulant to prevent the possible release of lead dust into the ambient air.

Enclosure- procedures necessary to complete enclosure of all lead-containing materials behind airtight, impermeable, permanent barriers.

Repair- procedures necessary to correct damage to a material, building product or system, etc. that in the process the action disturbs a lead-containing coating or covering on that material or substrate, which may create a lead hazard exposure to workers, future occupants, building and the environment. However, the repair procedures are not intended as Lead Abatement / Mitigation.

Air Monitoring—the process of measuring the lead content of a specified volume of air in a stated period of time.

HEPA Vacuum Equipment—high efficiency particulate air (absolute) Filtered vacuuming equipment with a filter system capable of collecting and retaining lead dust and fibers. Filters should be 99.97% efficiency for retaining fibers of 0.3 microns or larger.

Curtained Doorway—a device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic sheet over and existing or temporarily framed doorway, securing each along the top of the doorway, and securing the vertical edge of the inner sheet along the opposite vertical side of the doorway.

Decontamination Enclosure System—a series of connected rooms with curtained doorways between any two adjacent rooms, for the decontamination of workers or of materials and equipment.

Worker Decontamination Unit (DCU)—a decontamination enclosure system used for workers, typically consisting of a clean room, shower room, and an equipment room.

Equipment Decontamination Enclosure System—a decontamination enclosure system for materials and equipment, typically consisting of a designated area of the work, a wash room, a holding area, and an uncontaminated area.

Clean Room—an uncontaminated area or room which is part of the worker decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment.

Shower Room—a room between the clean room and the equipment room in the worker decontamination enclosure system with hot and cold or warm running water and suitably arranged for complete showering during decontamination. The shower room comprises an airlock between contaminated and clean areas.

Equipment Room—a contaminated area or room which is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.

Wash Room—a room between the work area and the holding area in the equipment contamination enclosure system. The wash room comprises an airlock.

Holding Area—a chamber between the washroom and an uncontaminated area in the equipment decontamination enclosure system. The holding area comprises an airlock.

Fixed Object—a unit of equipment or furniture in the work area which cannot be removed from the work area.

HEPA Filter—a high efficiency Particulate Absolute (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in length.

TSP – "Tri-sodium Phosphate" or "TSP Substitutes"—detergents with high-phosphate content (5% tri-sodium phosphate, or equivalent eco-friendly cleaner) used for final cleanup in lead-containing paint and dusts.

Wet Cleaning—the process of eliminating lead contamination from building or containment surfaces and objects by using cloths, mops, or other cleaning materials which have been dampened with water/detergent, followed by disposing of these cleaning tools as lead-contaminated waste.

Negative Pressure—a local exhaust system capable of maintaining a minimum pressure differential of minus 0.02 inch of water column relative to adjacent unsealed areas.

Primary Enclosure System—airtight impermeable barriers on walls and floors separating lead-containing materials from all other areas.

Secondary Enclosure System—Airtight, impermeable barriers sealing off and separating windows, doors, HVAC systems, shelves, and cabinets from lead-containing materials.

SUBMITTALS AND NOTICES

Prior to Commencement of Work, PRC shall:

Submit proof satisfactory to the OWNER's Representative that all required permits, and arrangements for transport and disposal of lead containing or contaminated materials, supplies and the permit has been obtained.

It shall be the Contractor's responsibility to determine whether any of the waste materials are hazardous waste. This includes not only solid waste, but waste water generated from interim and final cleanup.

Submit documentation to the OWNER's Representative indicating that all employees have had instruction on the hazards of lead (and silica, if applicable) exposures, on use and fitting of respirators, on protective clothing, on personal hygiene, and on all aspects of work procedures and protective measures.

Submit licenses and certifications of training for lead-containing paint abatement work for all workers and project supervisors disturbing lead-containing paint and cleaning lead dust or lead contamination. All workers who perform work area preparation, abatement, repair work or cleaning (e.g. containment prep, demolition, encapsulation, stripping, scraping removing loose paint, sanding/ grinding/ finishing of lead-containing painted surfaces, cleanup, and waste disposal) shall have a current lead abatement workers license issued by the Illinois Department of Public Health (IDPH) and the contractor's on site supervisor(s) shall have a supervisor's license. All workers who perform activities that do not directly scrape loose paint, disturb lead-containing paint or perform abatement and cleaning; such as scaffold erection and maintenance, airless painting, etc., and anyone who enter the Lead Hazard Controlled work area to observe the project activities must at a minimum receive Lead Awareness Training according to OSHA requirements, provide documentation and signed acknowledgement of the lead awareness training and lead hazards present at the job site.

Submit documentation to the OWNER's Representative showing all employees engaged in removal activities have had the appropriate medical examinations within the 12 months immediately proceeding project startup including, but not necessary limited to:

- Medical surveillance, including baseline blood lead levels.
- Statement by a physician that employee is fit to wear a respirator.
- Evidence of periodic blood lead level monitoring during the times the worker has been engaged in lead abatement activities.

Public Warning and Safety Information to be Posted:

Post signs at entrance to work areas to read "Warning – Lead Work Area – Poison – No Smoking or Eating"

A list of phone numbers for the local hospital and emergency squad, the local fire department, a representative of the building owner who may be reached 24 hours a day, the Contractors main office, and any architects or other professional Consultants directly involved in the project.

Submit manufacturer's certification that vacuum, ventilation equipment, and other equipment required to contain airborne dust conform to ANSI $Z\,9.2$

QUALITY ASSURANCE

Respirators:

Submit a written standard operating procedure governing selection, fit testing, and use, cleaning and care of respirator in accordance with 29 CFR 1910.134.

ADDITIONAL INSURANCE

In addition to any insurance required the Owner or Architect, the Paint Repair Contractor and all Subcontractors performing paint repair activities shall provide in the amount not less than \$1,000,000.00 coverage specific for lead related work.

Contractor and all Subcontractors shall name additionally insured under his liability insurance the Owner, the Architect, Consultant, and their officers, agents and employees. The PRC shall provide a copy of its Certificate of Insurance naming Peoria Park District / Peoria Zoo (OWNER), Apace Design Inc. & McKee Environmental, Inc. (MEI) as additional insured.

INSPECTIONS

The contractor shall visit the project sites and familiarize himself with all existing conditions. No allowances will be made for a change in contract price for conditions observable by onsite observation.

The contractor shall permit authorized persons access to the project to examine the work during all working hours. These persons include any agent of the U.S., State of Illinois or Local Government, the Owners Representative/project manager, and the Consultant's personnel.

RECORDS

The contractor shall provide:

Contact information (e.g., names, addresses, contact, phone numbers, etc.) of all subcontractors.

Summary Report at the conclusion of the Paint Repair Work, Including but not limited to:

- 1. The location and description of the project site and locations / drawings where Paint with lead-containing paints were repaired.
- 2. The starting and completion dates of the Paint Repair work.
- 3. A summary of the techniques used to comply with these regulations.

- 4. The Contractor shall submit to OWNER's Representative information and records indicating that the Paint Repair work has been performed in accordance with the contract documents.
- 5. Daily Visitor Sign-In Sheets
- 6. Daily Sign-In Sheets for Containment
- 7. Daily Summary of Work Activities
- 8. Documentation of all Employees working at the project site received Lead (and Silica, if applicable) Hazard Training, site and chemical specific Haz-Com training, current Certificate for Lead Abatement Worker, Lead Abatement Supervisor, and valid IDPH Licenses for Lead Workers and Lead Supervisors.
- 9. Documentation of Medical Surveillance for each employee that enters the containment; including physician's written opinion authorizing each employee the use of respiratory protection, employee biological monitoring for blood lead levels (e.g., base-line blood lead level before the start of the project, periodic monitoring throughout the project and end of project), respirator fit test records, and respirator training.
- 10. Employee exposure air monitoring reports and laboratory results for airborne Lead Dust and Crystalline Silica (if applicable).
- 11. Laboratory Test Results for Waste (Lab TCLP Results representative of all waste streams).
- 12. Proper Landfill Disposal Documentation (Waste Shipment Records/Waste Manifests).

PART 2 – PRODUCTS

PROTECTIVE COVERING

Polyethylene sheets, of 4 mil or 6 mil thickness (fire-retardant where necessary) in size to minimize the frequency of joints.

TAPE

Duct tape 2" or wider, capable of sealing joints of adjacent sheets of plastic and for attachment of plastic sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions.

HEAT BLOWER GUN EQUIPMENT

An electrically-operated, heat-blower gun shall be a flameless electrical paint softener type. Heat-blower shall have electronically controlled temperature settings to allow usage below a temperature of 700 degrees Fahrenheit. Heat-blower shall be DI type (non-grounded) 120V, AC application. Heat-blower shall be equipped with various nozzles to cover all common applications (cone, fan, glass protector, spoon reflector, etc.)

SPRAY ADHESIVE

Provide spray adhesive in aerosol cans which is specifically formulated to stick to sheet polyethylene

ENCAPSULANT

Work scope is based on the following manufacturers. Products with like attributes may be considered.

Lead coat by Certane.

Encapsulastic 7000 series by Encapsulation Technologies Corporation

Heavy Duty Trim Coating by Fibertec Coating Corp.

Barrier – coat by International Protective Coatings

If material cannot be tinted to desired color, two coats of an approved latex enamel paint is to be applied over encapsulant.

Elastic acrylic coatings shall be warranted by the manufacturer to be heavy-bodied and compatible with the substrate they are applied to. Elastic acrylic coatings shall be long-lasting and resist cracking, peeling, algae, and fungus. Elastic formula should allow for some movement in walls without cracking. Coatings shall contain no hazardous ingredients by OSHA definition and be non-flammable.

PAINT STRIPPING AGENT

Caustic stripper shall not have Methylene chloride as an ingredient. Materials shall be non-flammable and shall not produce toxic fumes.

DISPOSAL CONTAINERS

Provide 6 mil thick polyethylene sheeting, 6 mil leak-tight polyethylene bags and other containers, such as poly-lined drums or barrels as required by applicable regulations.

WARNING LABELS AND SIGNS

To be minimum of 20"x14" and includes phrase "Warning – Lead Work Area, Poison, No Smoking or Eating" in minimum 2" high letters.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment shall comply with the requirements of 29 CFR 1910.132 Subpart I.

Work clothes shall consist of fire retardant, disposable, full-body coveralls, head covers, boots, rubber gloves, and sneakers or equivalent in accordance with ANSI Z41. Sleeves at wrists and cuffs at ankles shall be secure.

Eye protection and hard hats shall be available as required by applicable safety regulations and shall conform to ANSI 87.1 and 89.1

Provide authorized visitors with suitable protective clothing, headgear, eye protection, and anti-slip footwear to prevent slips, trips and falls, whenever they are required to enter work area.

Workers shall wear disposable full-body coveralls, appropriate gloves, head covers, and disposable and non-disposable anti-slip footwear to prevent slips, trips and falls in the work area.

RESPIRATORY PROTECTION & MEDICAL SURVEILLANCE

Provide workers with personally-issued and marked respiratory protection equipment approved by NIOSH and suitable for the lead exposure level in the work area according to OSHA Standard 29 CFR Part 1926. Where respirators with disposable filters are employed, provide sufficient filters for replacement as required by the worker or applicable regulation. Filters shall be P100 cartridges and shall not be used any longer than one work period. HEPA filters shall be washed whenever the worker wearing it showers, and shall not be used any longer than one work day. Store the respirator filters at the job site in the change room and protect them from exposure to lead prior to their use. The following general condition shall apply to respirator use:

All respirators used must be certified by NIOSH and a respirator program as specified in 29 CFR 1910.134 shall be established, followed and available at the project site.

The Contractor shall furnish written documentation which is satisfactory to the Owner that employees have had instruction on the dangers of lead exposure, respirator use, decontamination, and OSHA regulations within three months prior to assignment of lead related work.

The contractor shall furnish written documentation, which is satisfactory to the Owner, that all employees are in a medical surveillance program and have received a physician's written authorization to wear respiratory protection and biological monitoring for blood lead levels (immediately before start of project and at the conclusion of the project), passed respirator fit tests and have been assigned individual respirators which fit them.

During all segments of Paint repair and cleanup activities, respirator usage shall be required of all persons within the designated work areas at all times. The minimum respiratory protection required for this project, unless otherwise specified in writing by the Owner's Consultant, shall be $\frac{1}{2}$ face respirator with P100 filters.

Required respirators for airborne concentrations of <u>inorganic lead</u> shall be:

Half face respirator: up to 0.5 mg/m³

Tight-fitting, full face piece powered air purifying respirator:

Up to 2.5 mg/m³

Type C supplied air respirator, full face piece, pressure-demand mode: 100 mg/m³

Disposable respirators are at no time acceptable and are prohibited.

The Contractor is responsible for determination of airborne lead concentration levels (and silica, where applicable) for the Contractor's and Sub-contractors' personnel and providing appropriate personnel respirator protection based upon same in accordance with 29 CFR 1926 of OSHA regulations.

Provide workers with sufficient sets of protective full-body clothing. Such clothing shall consist of full-body coveralls and headgear. Provide eye protection and hard hats as required by applicable safety regulations. Disposable type protective clothing, headgear, and footwear shall be provided by the Contractor.

Provide authorized visitors with suitable protective clothing, headgear, eye protection, and footwear whenever they are required to enter the work area, to an average of 6 sets per day. Disposable type protective clothing, headgear, and footwear shall be made available by the Contractor for such purposes. An accurate Daily Log of all the authorized personnel shall be kept as they enter and leave the Clean Room.

Provide and post in the equipment room and the clean room the decontamination and work procedures to be followed by workers.

MISCELLANEOUS

Provide the following miscellaneous equipment and supplies:

Enough support equipment, including but not limited to, lumber, nails, hardware, scaffolds, shower stalls, hoses, plumbing, drain pans, sump pumps, and wastewater storage drums to construct and operate the Decontamination Enclosure Systems with showers.

The number of showers shall be sufficient for the number of workmen scheduled on the job. The water hose used to connect the drain to the showers will not be used for any other purpose. The supply side water hose shall have a check valve to prevent backflow under any circumstance.

TOOLS AND EQUIPMENT

Enough hand tools which will be needed to complete the project in the proper workmanship-like manner.

Enough ladders and scaffolds to support the number of men scheduled on the job. The ladders and scaffolds will be of sufficient quantity and quality suitable in height or length to allow for safe and workmanlike performance of the job.

Enough electrical cord of proper thickness and enough ground-fault circuit interrupt (GFCI) units to simultaneously supply all required power systems in the work area throughout the duration of the project.

Enough HEPA filtered vacuum cleaners to clean all visible dust from all surfaces of the work area during all phases of cleanup.

PART 3 – EXECUTION

WORK SITE PREPARATION FOR PAINT REPAIR

Ventilation & Electricity Shut Down:

PRC shall:

Shut off and Lock Out / Tag Out (de-energize) any forced air ventilation systems in the work area.

Shut off and Lock Out / Tag Out (de-energize) all electricity in the work area during any work.

Use GFCI for all temporary electricity and lighting supplied in the work area.

Seal all forced air system vents with 2-layer of 6 mil polyethylene and duct tape.

Containment Barriers, Restrict Access, Pre-Clean & Prep:

PRC shall:

Establish perimeter containment barrier walls to provide a Regulated work area that prevents unauthorized entry, prevents contamination to other parts of the building, building occupants and the environment, and ensures personnel enter/exit the containment via the DCU.

Use 2 layers of 6 mil plastic sheeting, re-enforced poly or tarps that are sufficiently supported with 2" lumber or steel framing, bracing or other building materials such as pre-formed panels constructed of plywood sheathing or sheetrock, etc.

Provide adequate bracing and support for construction of perimeter containment walls in a proper and skillful manner.

Regulate the work area with appropriately labeled barrier tapes and warning signs.

Install airlock with triple flaps and secure doorway at barrier openings between work area and any remainder of building. Keep all windows doors not part of the work, closed and covered with 1 layer of 6 mil plastic sheeting.

Thoroughly Pre-clean all horizontal surfaces by HEPA vacuuming and wet wipe or wet mop of all hard surfaces. Allow to dry and repeat HEPA vacuuming surfaces a second time, including any carpeting in the opposite direction.

Thoroughly Pre-clean area by HEPA vacuuming and wet wiping the all remaining furniture, cabinetry and equipment, etc. Cover any items remaining in work area with 6 mil plastic sheeting

Decontamination Unit (DCU):

PRC shall:

Establish and attach to the work area a three-stage workers DCU as follows:

An equipment room with two curtain doorways, one to the work areas and one to the shower.

Shower room with two curtained doorways, one to the equipment room and one to the clean room. Shower room shall contain at least one shower with hot and cold or warm water. Ensure a supply

of soap at all times for the shower room. If exposure monitoring indicates an airborne lead concentration of less than 50 ug/m³, a lavatory facility may be used in lieu of a shower.

A clean room with one curtain doorway to shower and entrance or exit to non-contaminated areas of building. Clean room shall have sufficient for storage/security of worker's street clothes, towels and other non-contaminated protective clothing, respirators and other accessories to be used by workers in the work area.

Provide cascaded filter units on drain lines from shower or any other water source carrying lead-containing water from work area. Final filtration to remove all particles 5 microns and larger. Test all waste water for Toxicity Characteristics and dispose of properly.

Scaffold & Interior Containment Floors:

PRC shall:

Thoroughly Pre-clean all floors and horizontal surfaces, including scaffold and below scaffolding by HEPA vacuuming and wet wipe or wet mop of all hard surfaces.

Allow to dry and repeat HEPA vacuuming flooring surfaces, including any carpeting a second time in the opposite direction.

Cover stationary scaffold floors with 1 layer of 6 mil plastic sheeting, stagger all seams at least 12 inches and seal all seams with 2" wide or greater duct tape and spray adhesive. Overlap the floor poly to cover at least 12" up all walls in the work areas. Contractor may place a "drop cloth" (e.g., 1 layer of 6 mil plastic sheeting, tarps, rubber roofing or similar, etc.) in the work area during any repair activities. Move the drop cloth as necessary to each area of work. Install all plastic layers and drop cloth in a proper and skillful manner to prevent sliding, slips, trips and falls.

Cover all other floors and horizontal surfaces in the work area with 1 layer of 6 mil plastic sheeting, stagger all seams at least 12 inches and seal all seams with 2" wide or greater duct tape and spray adhesive. Overlap the floor poly layers to cover at least 12" up all walls in the work areas. Contractor may use a "drop cloth" (e.g., 1 layer of 6 mil plastic sheeting, tarps, rubber roofing or similar) in the work area during any repair activities. Move the drop cloth as necessary to each work area. Install all plastic layers and drop cloth in a proper and skillful manner to prevent sliding, slips, trips and falls.

Waste Load-out Pathway:

PRC shall cover floor surfaces with 1 layer of 6 mil plastic sheeting, stagger all seams at least 12 inches and seal all seams with 2" wide or greater duct tape and spray adhesive to protect building from damage of transporting waste to temporary waste holding area.

Install all plastic layers in a proper and skillful manner to prevent sliding, slips, trips and falls.

Post and demarcate the waste load-out pathway with appropriately labeled barrier tapes and warning signs.

Secure entrance to Waste Load-out Area at all times.

Negative Pressure:

PRC shall after isolating and sealing work area, install sufficient number and size of HEPA-filtered negative air machines exhausted to outside the building to maintain a minimum pressure differential of minus 0.02 inch of water column relative to adjacent unsealed areas (or outside building) during the work. Smoke test work area 2 times per day and use continuous reading instrument (manometer) to record the pressure differential.

PAINT REPAIR

PRC shall:

Coordinate with the Painting Contractor prior to Clearance Testing in order to achieve satisfactory substrate preparation for proper adhesion of new paint to the substrate on this project.

Ensure all woks site preparations are completed and drop cloth materials are securely established for work areas prior to starting.

Provide and use supplemental local exhaust ventilation (LEV) with HEPA filtration (additional negative air machines or HEPA vacuums) immediately in the work area zone(s) as necessary to minimize airborne dust to the lowest feasible concentration during all repair activities. Position and maintain LEV devices so as to pull air immediately away from workers' breathing zones.

Provide mechanical (electrical, pneumatic or battery powered) grinding/ sanding/ gouging/ buffing/ rotating devices equipped with manufacturer's guards/shrouds and connect to HEPA filtered vacuums operating at all times during work activities.

Start the furthest distance away from the location of the HEPA-filtered negative air machines ducted to outside the building and working towards the direction of the machines, perform all Paint Repair activities, including Prep painted surfaces by scraping/sanding all loose, peeling, flaking paint down to a suitable substrate according to the Painter or Painting Contractor. All remaining paint on the window frames shall be securely bonded to the substrate.

CLEANING - LEAD HAZARD CONTROL

PRC shall perform the following cleanup procedures daily:

Large debris:

Collect any large debris and either wrap in six mil polyethylene, sealed with tape or place in drums lined with double 6 mil bags. Wet wipe exterior of each drum or plastic sheeting, apply appropriate warning labels and relocated the items to the designated secured temporary storage area until material can be disposed of properly.

Small debris:

Wet small debris with a fine mist of amended water and collect material. Place in drums lined with double 6 mil bags or place in double 6 mil waste bags. Wet wipe exterior of drum or plastic bags, apply appropriate warning labels and relocated the items to the designated secured temporary storage area until material can be disposed of properly.

FINAL CLEANING

PRC shall at completion of Paint Repair, perform cleaning as follows:

Prior to Clearance Testing, PRC shall coordinate with the Painting Contractor all necessary cleaning techniques and solutions in order to achieve satisfactory substrate preparation for proper adhesion of new paint to the substrate.

Remove all debris daily as stated above.

Clean all areas where Paint repair was performed by vacuuming all surfaces with a wet/dry HEPA vacuum followed by comprehensive wet wiping with an acceptable wash solution (e.g., TSP or acceptable eco-friendly substitute lead-cleaning solution). Contractor may mist surfaces according to label directions with a garden sprayer and followed by vacuuming surfaces again with wet/dry HEPA vacuum.

Thorough cleaning shall include appropriate cleaning of dust and dirt from all horizontal and vertical surfaces in the work area by comprehensive wet wipe methods.

Remove plastic sheeting on immovable objects inside the work areas after misting with amended water. Then remove plastic sheeting on floors after misting with amended water. Place plastic in double 6 mil plastic bags or plastic-lined drums.

Seal all containers and store in designated location.

Thoroughly clean scaffold by HEPA-vacuum, wet wiping with TSP (or acceptable eco-friendly substitute lead-cleaning solution), followed by comprehensive HEPA-vacuuming.

After final cleaning has been completed inside the work area above the scaffold, lightly mist and carefully remove plastic sheeting covering items below scaffold and outside the work areas.

Final clean flooring surfaces by wet wiping all surfaces with TSP (or acceptable eco-friendly substitute lead-cleaning solution).

Cleaning solutions and towel, rags, mops, etc. for wet cleaning methods shall be replaced frequently.

Do not use compressed air or dry sweeping when cleaning

All waste water shall be contained, tested and disposed of properly.

TESTING REQUIREMENTS

Employee Exposure Air Monitoring:

The Contractor is responsible to comply with OSHA for the determination of airborne lead levels and airborne silica levels (if applicable) for the contractor's and any sub-contractor's personnel representative for each work activity that disturbs the Paint surface. The Contractor shall provide appropriate respirator protection to all personnel and authorized visitors based upon sufficient monitoring data.

Clearance Testing:

Clearance wipe samples for inorganic lead will be taken by the OWNER's CONSULTANT. Contractor is to allow three working days for results of this sampling.

Clearance Criteria:

Clearance sample results for inorganic lead must be at or below the following levels before release of the containment area.

Floors: $40 \,\mu\text{g/ft}^2$

Window Sills: 200 µg/ft²

Window Wells: 200 µg/ft²

Exterior Concrete or Other Rough Surfaces: 200 µg/ft²

Soils: 500 ppm

If clearance criteria are not met, the Contractor is required to re-clean containment and pay for retesting, including all sample costs, expenses and CONSULTANT's time until the clearance criteria are achieved.

DISPOSAL OF WASTE MATERIAL

Contractor to laboratory test all waste generated using Toxicity Characteristic Leaching Procedure (TCLP) Methods (e.g., paint chips, Paint, Paint dust, plastic sheeting, liquids, disposable towels, suits, etc.) to determine if Lead-contaminated or Lead-containing materials are required to be dispose of as hazardous waste.

Thoroughly Clean by HEPA Vacuuming and Wet Wipe all surfaces before disposal.

The Contractor shall provide for secure, on-site temporary storage of waste using location subject to prior approval of the Owner and until material can be removed from site. Temporary storage must be covered, leak-tight, warning signs / labels posted and secured to prevent unauthorized entry.

The following has been provided from the Illinois Environmental Protection Agency is provided for information purposes only:

Non-Residential LBP Waste

If demolition/construction debris containing LBP still adhered to the substrate is generated from a non-residential structure, the waste may be handled as general refuse. However, if the LBP is removed from the original substrate to which it was adhered, then the waste is a special waste. The waste must also be tested to determine if it is a hazardous waste. The entire waste stream (e.g. paint chips, blasted grit with paint chips, stripping agent with paint chips) must be analyzed. LBP

waste that meets the definition of special waste is hazardous if it has a concentration of lead equal to or greater than 5.0 mg/l as determined by the Toxicity Characteristic Leaching Procedure (TCLP). In addition, other parameters must be below the regulatory limits for toxicity and other characteristics and listings. The handling and disposal of hazardous waste in Illinois must be conducted in accordance with the RCRA regulations applicable to the activity being conducted. If the generator/contractor determines that the LBP waste is hazardous, then the waste must be treated prior to disposal in a facility that is permitted by IEPA to accept that waste. The treatment technology that is used is stabilization. The treatment of hazardous LBP waste must render the waste non-hazardous prior to disposal at properly permitted facility.

Hazardous LBP waste may not be stored on site for greater than 90 days (or 180 days for small quantity generator; 270 days for a small quantity generator that transports his/her waste greater than 200 miles) without a Resource Conservation and Recovery Act (RCRA) permit.

Transportation of LBP Waste

Anyone who hauls or transports any special waste within Illinois must have a current valid waste hauling permit issued by the IEPA. NOTE: Any person who is transporting special waste for a generator who generates less than 100 kilograms (220 pounds) of special LBP waste in a calendar month is exempt from this requirement.

Manifest and Record Keeping Requirements

Any person who delivers any special waste to a permitted special waste hauler shall complete a manifest to accompany the special waste from delivery to the destination of the special waste. In order to manifest special waste off-site, the generator must obtain an IEPA identified number (and a USEPA identification number if the waste is hazardous). In addition, if the waste is a non-hazardous special waste and is sent out of state, the generator must submit an annual report to the IEPA. If the waste is a hazardous waste and the generator exceeds 1,000 kg in any less than 100 kilograms (220 pounds) of special waste in every calendar month in a calendar year is except from this requirement.

End of Section 02091

SECTION 04 01 20 - MAINTENANCE OF UNIT MASONRY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes maintenance of unit masonry consisting of brick clay masonry restoration and cleaning as follows:
 - 1. Repairing unit masonry, including replacing units.
 - 2. Repointing joints.
 - 3. Preliminary cleaning, including removing plant growth.
 - 4. Cleaning exposed unit masonry surfaces.

1.02 UNIT PRICES

A. Work of this Section is affected by unit prices specified in Division 01 Section "Unit Prices."

1.03 DEFINITIONS

- A. Low-Pressure Spray: 100 to 400 psi; 4 to 6 gpm.
- B. Medium-Pressure Spray: 400 to 800 psi; 4 to 6 gpm.

1.04 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For the following:
 - 1. Provisions for expansion joints or other sealant joints.
- C. Samples: For each exposed product and for each color and texture specified.

1.05 OUALITY ASSURANCE

- A. Restoration Specialist Qualifications: Engage an experienced masonry restoration and cleaning 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 installing standard unit masonry is not sufficient experience for masonry restoration work.
 - 1. At Contractor's option, work may be divided between two specialist firms: one for cleaning work and one for repair work.
 - 2. Field Supervision: Restoration specialist firms shall maintain experienced full-time supervisors on Project site during times that clay masonry restoration and cleaning work is in progress.
 - 3. Restoration Worker Qualifications: Persons who are experienced in restoration work of types they will be performing. When masonry units are being patched, assign at least one worker among those performing patching work who is trained and certified by manufacturer of patching compound to apply its products.
- B. Mockups: Prepare mockups of restoration and cleaning to demonstrate aesthetic effects and set quality standards for materials and execution and for fabrication and installation.

- 1. Masonry Repair: Prepare sample areas for each type of masonry material indicated to have repair work performed. If not otherwise indicated, size each mockup not smaller than 2 adjacent whole units or approximately 48 inches in least dimension. Erect sample areas in existing walls unless otherwise indicated, to demonstrate quality of materials, workmanship, and blending with existing work. Include tinted mortar to in mock-up to match existing adjacent mortar. Include the following as a minimum:
 - a. Replacement:
 - 1) Four adjacent brick units replaced.
 - b. Patching: Three small holes at least 1 inch in diameter for each type of masonry material indicated to be patched, so as to leave no evidence of repair.
- 2. Repointing: Rake out joints in 2 separate areas as indicated for each type of repointing required and repoint one of the areas.
- 3. Cleaning: Clean an area approximately 25 sq. ft. for each type of masonry and surface condition.
- 4. Contractor shall submit brick cards, then brick straps of each type and color of brick in the project, for Architect approval prior to installing mock-ups. There shall be no additional cost to the Owner if multiple submissions of samples prove to be necessary in order to arrive at a suitable match.
- C. Preinstallation Conference: Conduct conference at Project site.

PART 2 - PRODUCTS

2.01 MASONRY MATERIALS

- A. Face Brick: Provide face brick, including specially molded, ground, cut, or sawed shapes where required to complete masonry restoration work.
 - 1. Provide units with physical properties, colors, color variation within units, surface texture, size, and shape to match existing brickwork on the various buildings.
 - a. Physical Properties per ASTM C 67:
 - 1) Compressive Strength: Minimum average net compressive strength of 4400 psi.
 - 2) 24-Hour Cold-Water Submersion Absorption: Match existing brick samples.
 - 3) 5-Hour Boil Absorption: Match existing brick samples.
 - 4) Saturation Coefficient: Match existing brick samples.
 - 5) Initial Rate of Absorption: Less than 30g/30 sq. in. per minute.
 - b. 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 specially 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 not acceptable procedures for fabricating special shapes.

3. Material Allowance: For bidding purposes, a material allowance of \$90.00 per one hundred brick shall be used. This allowance figure does not include taxes, shipping and handling or markups. When actual brick has been selected. A comparison between the material allowance and actual cost will be reviewed. A credit could be requested by the Owner.

2.02 MORTAR MATERIALS

- A. Portland Cement: ASTM C 150, Type I or Type II, white or gray or both where required for color matching of exposed 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. Mortar Sand: ASTM C 144 unless otherwise indicated.
 - 1. Color: Provide natural sand or ground marble, granite, or other sound stone of color necessary to produce required mortar color to match existing adjacent.
 - 2. For pointing mortar, provide sand with rounded edges.
 - 3. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match.
- D. Mortar Pigments: Natural and synthetic iron oxides, compounded for mortar mixes. Use only pigments with a record of satisfactory performance in masonry mortars.
- E. Water: Potable.
- F. A lab analysis of existing mortar shall be required to find an exact color match if successful mockup panels are not achieved. Owner/Architect shall have final decision on whether mortar color matches existing.

2.03 MANUFACTURED REPAIR MATERIALS

- A. Masonry Patching Compound: Factory-mixed cementitious product that is custom manufactured for patching masonry.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Cathedral Stone Products, Inc.; Jahn M100 Terra Cotta and Brick Repair Mortar.
 - b. Conproco Corporation; Mimic.
 - c. Edison Coatings, Inc.; Custom System 45.
 - 2. Use formulation that is vapor- and water permeable (equal to or more than the masonry unit), exhibits low shrinkage, has lower modulus of elasticity than the masonry units being repaired, and develops high bond strength to all types of masonry.
 - 3. Formulate patching compound used for patching brick in colors and textures to match each masonry unit being patched.

2.04 PAINT REMOVERS

A. Covered or Skin-Forming Alkaline Paint Remover: Manufacturer's standard covered or skin-forming alkaline formulation for removing paint coatings from masonry.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ABR Products, Inc.; Grip 'N Strip 800 Fast Acting.
 - b. Diedrich Technologies Inc.; 606 Multi-Layer Paint Remover or 606X Extra Thick Multi-Layer Paint Remover with pull-off removal system.
 - c. Dumond Chemicals, Inc.; Peel Away 1 System.
 - d. PROSOCO; Enviro Klean Safety Peel 1 or Enviro Klean Safety Peel 3 with Enviro Klean Overcoat.
- B. Solvent-Type Paint Remover: Manufacturer's standard water-rinsable, solvent-type gel formulation for removing paint coatings from masonry.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ABR Products, Inc.; Super Bio Strip Gel.
 - b. Diedrich Technologies Inc.; 505 Special Coatings Stripper.
 - c. Dumond Chemicals, Inc.; Peel Away 2.

 - e. Price Research, Ltd.; Price Strip-All.
 - f. PROSOCO; Sure Klean Fast Acting Stripper.

2.05 CLEANING MATERIALS

- A. Water: Potable.
- B. Hot Water: Water heated to a temperature of 140 to 160 deg F.
- C. Acidic Cleaner: Manufacturer's standard acidic masonry cleaner composed of hydrofluoric acid or ammonium bifluoride blended with other acids, detergents, wetting agents, and inhibitors.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ABR Products, Inc.; 801 Heavy Duty Masonry Cleaner.
 - b. Diedrich Technologies Inc.
 - c. Dumond Chemicals, Inc.; Safe n' Easy Ultimate Stone and Masonry Cleaner or Safe n' Easy Heavy Duty Restoration Cleaner.
 - d. EaCo Chem, Inc.; GS-Restoration or HD-Acid.
 - e. Hydroclean, Hydrochemical Techniques, Inc.; Hydroclean Brick, Granite, Sandstone and Terra Cotta Cleaner (HT-626).
 - f. Price Research, Ltd.; Price Heavy Duty Restoration Cleaner or Price Restoration Cleaner.
 - g. PROSOCO; Enviro Klean Restoration Cleaner, Sure Klean Restoration Cleaner or Sure Klean Heavy-Duty Restoration Cleaner.

2.06 ACCESSORY MATERIALS

A. Setting Buttons: Resilient plastic buttons, nonstaining to masonry, sized to suit joint thicknesses and bed depths of masonry units without intruding into required depths of pointing materials.

2.07 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 will retain 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 exceed a pigment-to-cement ratio of 1:10 by weight.
- C. Do not use admixtures in mortar unless otherwise indicated.
- D. Mortar Proportions: Mix mortar materials in the following proportions:
 - 1. Pointing Mortar for Brick: 1 part portland cement, 2 parts lime, and 6 parts sand or 1 part portland cement, 6 parts lime, and 12 parts sand. Coordinate with compressive strength of brick. Mortar shall not be higher strength than brick.
 - a. Add mortar pigments to produce mortar colors required. A lab analysis of existing mortar could be required to find an exact color match if successful mockup panels are not achieved. Owner/Architect shall have final decision on whether mortar color matches existing.
 - 2. Rebuilding (Setting) Mortar: Same as pointing mortar.

2.08 EMBEDDED FLASHING MATERIALS

- A. Metal Flashing: Provide metal flashing, where flashing is exposed or partly exposed and where indicated, complying with Division 07 Section "Sheet Metal Flashing and Trim."
 - 1. Metal Drip Edges: Fabricate from copper. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
 - 2. Metal Flashing Terminations: Fabricate from copper. Extend at least 3 inches into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch and down into joint 3/8 inch to form a stop for retaining sealant backer rod.
- B. Flexible Flashing: For flashing not exposed to the exterior, use one of the following, unless otherwise indicated:
 - 1. Copper-Laminated Flashing: 7-oz./sq. ft. copper sheet bonded with asphalt between 2 layers of glass-fiber cloth.
 - a. Products:
 - 1) Advanced Building Products Inc.; Copper Fabric Flashing.
 - 2) AFCO Products Inc.; Copper Fabric.
 - 3) Hohmann & Barnard, Inc.; H & B C-Fab Flashing.
 - 4) Phoenix Building Products; Type FCC-Fabric Covered Copper.
 - 5) Polytite Manufacturing Corp.; Copper Fabric Flashing.
 - 6) Sandell Manufacturing Co., Inc.; Copper Fabric Flashing.

- 7) York Manufacturing, Inc.; York Copper Fabric Flashing.
- 2. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.040 inch.
 - a. Products:
 - 1) Advanced Building Products Inc.; Peel-N-Seal.
 - 2) Carlisle Coatings & Waterproofing; CCW-705-TWF Thru-Wall Flashing.
 - 3) Dayton Superior Corporation, Dur-O-Wal Division; Dur-O-Barrier-44.
 - 4) Grace Construction Products, a unit of W. R. Grace & Co. Conn.; Perm-A-Barrier Wall Flashing.
 - 5) Heckmann Building Products Inc.; No. 82 Rubberized-Asphalt Thru-Wall Flashing.
 - 6) Hohmann & Barnard, Inc.; Textroflash.
 - 7) Polyguard Products, Inc.; Polyguard 300.
 - 8) Polytite Manufacturing Corp.; Poly-Barrier Self-Adhering Wall Flashing.
 - 9) Williams Products, Inc.; Everlastic MF-40.
- C. Solder and Sealants for Sheet Metal Flashings: As specified in Division 07 Section "Sheet Metal Flashing and Trim."
- D. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer.

2.09 TIES AND ANCHORS

- A. Materials:
 - 1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82; with ASTM A 153/A 153M, Class B-2 coating.
- B. Wire Ties, General: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but with at least 5/8-inch cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches parallel to face of veneer.

2.10 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; formulated from neoprene.

2.11 CHEMICAL CLEANING SOLUTIONS

- A. Dilute chemical cleaners with water to produce solutions not exceeding concentration recommended by chemical-cleaner manufacturer.
- B. Acidic Cleaner Solution for Brick: Dilute with water to produce hydrofluoric acid content of 3 percent or less, but not greater than that recommended by chemical-cleaner manufacturer.

PART 3 - EXECUTION

3.01 PROTECTION

- A. Protect persons, motor vehicles, surrounding surfaces of building being restored, building site, plants, and surrounding buildings from harm resulting from masonry restoration work.
- B. Comply with chemical-cleaner manufacturer's written instructions for protecting building and other surfaces against damage from exposure to its products. Prevent chemical-cleaning solutions from coming into contact with people, motor vehicles, landscaping, buildings, and other surfaces that could be harmed by such contact.
 - Cover adjacent surfaces with materials that are proven to resist chemical cleaners used unless chemical cleaners being used will not damage adjacent surfaces. Use materials that contain only waterproof, UV-resistant adhesives. Apply masking agents to comply with manufacturer's written instructions. When no longer needed, promptly remove masking to prevent adhesive staining.
 - Keep wall wet below area being cleaned to prevent streaking from runoff.

3.02 BRICK REMOVAL AND REPLACEMENT

- A. At locations indicated, remove bricks that are damaged, spalled, or deteriorated. Carefully demolish or remove entire units from joint to joint, without damaging surrounding masonry, in a manner that permits replacement with full-size units.
- B. Support and protect remaining masonry that surrounds removal area. Maintain flashing, reinforcement, lintels, and adjoining construction in an undamaged condition.
- C. 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.
- D. 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.
- E. Clean bricks surrounding removal areas by removing mortar, dust, and loose particles in preparation for replacement.
- F. Replace removed damaged brick with other removed brick in good quality, where possible, or with new brick matching existing brick, including size. Do not use broken units unless they can be cut to usable size.
- G. 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.

- H. Lay replacement brick with completely filled bed, head, and collar joints. Butter ends with sufficient 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 sufficiently hard to support units, remove shims and other devices interfering with pointing of joints.

3.03 CLEANING MASONRY, GENERAL

- A. Proceed with cleaning in an orderly manner; work from top to bottom of each scaffold width and from one end of each elevation to the other. Ensure that dirty residues and rinse water will not wash over cleaned, dry surfaces.
- B. Use only those cleaning methods indicated for each masonry material and location.
 - 1. Do not use wire brushes or brushes that are not resistant to chemical cleaner being used. Do not use plastic-bristle brushes if naturalfiber brushes will resist chemical cleaner being used.
 - 2. Use spray equipment that provides controlled application at volume and pressure indicated, measured at spray tip. Adjust pressure and volume to ensure that cleaning methods do not damage masonry. a. Equip units with pressure gages.
 - 3. For chemical-cleaner spray application, use low-pressure tank or chemical pump suitable for chemical cleaner indicated, equipped with cone-shaped spray tip.
 - 4. For water-spray application, use fan-shaped spray tip that disperses water at an angle of 25 to 50 degrees.
 - 5. For heated water-spray application, use equipment capable of maintaining temperature between 140 and 160 deg F at flow rates indicated.
- C. Perform each cleaning method indicated in a manner that results in uniform coverage of all surfaces, including corners, moldings, and interstices, and that produces an even effect without streaking or damaging masonry surfaces.
- D. Water-Spray Application Method: Unless otherwise indicated, hold spray nozzle at least 6 inches from surface of masonry and apply water in horizontal back and forth sweeping motion, overlapping previous strokes to produce uniform coverage.
- E. Chemical-Cleaner Application Methods: Apply chemical cleaners to masonry surfaces to comply with chemical-cleaner manufacturer's written instructions; use brush or spray application. Do not spray apply at pressures exceeding 50 psi. Do not allow chemicals to remain on surface for periods longer than those indicated or recommended by manufacturer.
- F. Rinse off chemical residue and soil by working upward from bottom to top of each treated area at each stage or scaffold setting. Periodically during each rinse, test pH of rinse water running off of cleaned area to determine that chemical cleaner is completely removed.

1. Apply neutralizing agent and repeat rinse if necessary to produce tested pH of between 6.7 and 7.5.

3.04 PRELIMINARY CLEANING

- A. Removing Plant Growth: Completely remove visible plant, moss, and shrub growth from masonry surfaces. Carefully remove plants, creepers, and vegetation by cutting at roots and allowing to dry as long as possible before removal. Remove loose soil and debris from open masonry joints to whatever depth they occur.
- B. Preliminary Cleaning: Before beginning general cleaning, remove extraneous substances that are resistant to cleaning methods being used. Extraneous substances include paint, calking, asphalt, and tar.
 - 1. Carefully remove heavy accumulations of material from surface of masonry with a sharp chisel. Do not scratch or chip masonry surface.
 - 2. Remove paint and calking with alkaline paint remover.
 - a. Comply with requirements in "Paint Removal" Article.
 - b. Repeat application up to two times if needed.
 - 3. Remove asphalt and tar with solvent-type paint remover.
 - a. Comply with requirements in "Paint Removal" Article.
 - b. Apply paint remover only to asphalt and tar by brush without prewetting.
 - c. Allow paint remover to remain on surface for 10 to 30 minutes.
 - d. Repeat application if needed.

3.05 PAINT REMOVAL

- A. Paint Removal with Covered or Skin-Forming Alkaline Paint Remover:
 - 1. Remove loose and peeling paint using [low] [medium]-pressure spray, scrapers, stiff brushes, or a combination of these. Let surface dry thoroughly.
 - 2. Apply paint remover to dry, painted masonry with trowel, spatula, or as recommended by manufacturer.
 - 3. Apply cover, if required by manufacturer, per manufacturer's written instructions.
 - 4. Allow paint remover to remain on surface for period recommended by manufacturer or as determined in test panels.
 - 5. Scrape off paint and remover and collect for disposal.
 - 6. Rinse with hot water applied by low-pressure spray to remove chemicals and paint residue.
 - 7. Apply acidic cleaner or manufacturer's recommended afterwash to masonry, while surface is still wet, using low-pressure spray equipment or soft-fiber brush. Let cleaner or afterwash remain on surface as a neutralizing agent for period recommended by chemical-cleaner or afterwash manufacturer.
 - 8. Rinse with cold water applied by low-pressure spray to remove chemicals and soil.
- B. Paint Removal with Solvent-Type Paint Remover:
 - 1. Remove loose and peeling paint using low-pressure spray, scrapers, stiff brushes, or a combination of these. Let surface dry thoroughly.
 - 2. Apply thick coating of paint remover to painted masonry with natural-fiber cleaning brush, deep-nap roller, or large paint brush.
 - 3. Allow paint remover to remain on surface for period recommended by manufacturer.

4. Rinse with hot water applied by low-pressure spray to remove chemicals and paint residue.

3.06 CLEANING MASONRY

- A. Mild Acidic and Acidic Chemical Cleaning:
 - 1. Wet masonry with cold water applied by low-pressure spray.
 - 2. Apply cleaner to masonry in two applications by brush or low-pressure spray. Let cleaner remain on surface for period indicated below:

 a. As recommended by chemical-cleaner manufacturer.
 - 3. Rinse with cold water applied by medium-pressure spray to remove chemicals and soil.

3.07 REPOINTING MASONRY

- A. Rake out and repoint joints to the following extent:
 - 1. All joints in areas indicated.
 - 2. Joints where mortar is missing or where they contain holes.
 - 3. Cracked joints where cracks can be penetrated at least 1/4 inch by a knife blade 0.027 inch thick.
 - 4. Cracked joints where cracks are 1/16 inch or more in width and of any depth.
 - 5. Joints where they are worn back 1/4 inch or more from surface.
 - 6. Joints where they are deteriorated to point that mortar can be easily removed by hand, without tools.
 - 7. Joints where they have been filled with substances other than mortar.
 - 8. Joints indicated as sealant-filled joints.
- 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 2-1/2 times joint width, but not less than 1/2 inch or not less than that required to expose sound, unweathered mortar, U.O.N on drawings.
 - 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.
 - a. Cut out center of mortar bed joints using angle grinders with diamond-impregnated metal blades. Remove remaining mortar by hand with chisel and resilient mallet.
- 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 thoroughly and allow it to become thumbprint hard before applying next layer.

- 3. After low areas have been filled to same depth as remaining joints, point all 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.
 - a. Acceptable curing methods include covering with wet burlap and plastic sheeting, periodic hand misting, and periodic mist spraying using system of pipes, mist heads, and timers.
- 6. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.
- F. Where repointing work precedes cleaning of existing masonry, allow mortar to harden at least 30 days before beginning cleaning work.

3.08 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, spray applied at low pressure.
 - 1. Do not use metal scrapers or brushes.
 - 2. Do not use acidic or alkaline cleaners.

END OF SECTION

SECTION 055000 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 SUMMARY

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

1.2 ACTION SUBMITTALS

A. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.2 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.

2.3 FASTENERS

- A. General: Unless otherwise indicated, provide Type 316 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
 - 1. Provide stainless-steel fasteners for fastening aluminum.
 - 2. Provide stainless-steel fasteners for fastening stainless steel.
 - 3. Provide stainless-steel fasteners for fastening nickel silver.
 - 4. Provide bronze fasteners for fastening bronze.
- B. Post-Installed Anchors: Torque-controlled expansion anchors.
 - 1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.
 - 2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 2 (A4) stainless-steel bolts, ASTM F 593 (ASTM F 738M), and nuts, ASTM F 594 (ASTM F 836M).

2.4 MISCELLANEOUS MATERIALS

- A. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting."
- B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.
- 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.

2.5 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Use connections that maintain structural value of joined pieces.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges. Remove sharp or rough areas on exposed surfaces.
- C. 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.

- D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Locate joints where least conspicuous.
- E. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- F. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors not less than 8 inches (200 mm) from ends and corners of units and 24 inches (600 mm) o.c.

2.6 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.

2.7 STEEL AND IRON FINISHES

- A. 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 099113 "Exterior Painting" indicated.
- B. Preparation for Shop Priming: Prepare surfaces to comply with SSPC-SP 3, "Power Tool Cleaning."

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.
- D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to inplace construction.
- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

3.2 INSTALLING BEARING AND LEVELING PLATES

- A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.
- B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with nonshrink grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.3 ADJUSTING AND CLEANING

- A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint 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.
- B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780/A 780M.

END OF SECTION 055000

SECTION 08 44 13 GLAZED ALUMINUM CURTAIN WALL

PART 1 - GENERAL

1.1 Work Included

- A. Furnish and install architectural aluminum curtain wall complete with related components as shown on drawings and specified in this section.
- B. Curtain Wall System shall be EFCO® Series 5600 Outside Glazed. Other manufacturers requesting approval to bid their product as an equal must submit the following information five days prior to close of bidding.
 - 1. A proposal drawing showing full size details of all curtain wall components including all anchors and building attachments.
 - 2. Test reports documenting compliance with requirements of Section 1.2.

C. Glass

- 1. Reference Section 08 81 00 for Glass and Glazing.
- D. Single Source Requirement
 - All products listed in Section 1.02 shall be by the same manufacturer.
- 1.2 Laboratory Testing and Performance Requirements
 - A. Test Units
 - Air, water, and structural test unit size shall be a minimum of two stories high and three lites wide.
 - 2. Thermal test unit sizes shall be 80" (2032 mm) wide x 80" (2032 mm) high with one intermediate vertical mullion and two lites of glass.
 - B. Test Procedures and Performance
 - 1. Air Infiltration Test
 - a. Test unit in accordance with ASTM E 283 at a static air pressure difference of 6.24 psf (300 Pa).
 - b. Air infiltration shall not exceed .06 cfm/SF (.31 l/s·m²) of unit.
 - 2. Water Resistance Test
 - a. Test unit in accordance with ASTM E 331.
 - b. The test for static water penetration (ASTM E 331) shall be conducted at an air pressure difference of 15.0 psf (720 Pa). There shall be no water leakage as defined by AAMA 501.1, paragraph 5.5.
 - 3. Uniform Load Deflection Test
 - a. Test in accordance with ASTM E 330.
 - b. Deflection under design load shall not exceed L/175 for spans less than 162" (4114 mm).

- Deflection under design load shall not exceed L/240 +1/4" (6 mm) for spans greater than 162" (4114 mm).
- 4. Uniform Load Structural Test
 - Test in accordance with ASTM E 330 at a pressure 1.5 times the design wind pressure in 1.05.B.3.b.
 - At conclusion of the test there shall be no glass breakage. permanent damage to fasteners, curtain wall parts, or any other damage that would cause the curtain wall to be defective.
- Thermal Transmittance Test (Conductive U-Factor)
 - With ventilators closed and locked, test unit in accordance with NFRC 100-2010.
 - b. Conductive thermal transmittance (U-Factor) shall not be more than 0.38 BTU/hr•ft2•°F when glazed with 0.24 center of glass U-Factor.
- Seismic Performance
 - Test unit in accordance to AAMA 501.4 system to meet design displacement of 0.010 x the greater adjacent story height and ultimate displacement of 1.5 x the design displacement.
- Sound Transmission Loss
 - Test unit in accordance with ASTM E 90-02.
 - Sound Transmission Class (STC) shall not be less than 29.
- C. Project Wind Loads
 - The system shall be designed to withstand the following loads normal to the plane of the wall:
 - Positive pressure of 20 psf (960 Pa) at non-corner zones.
 - Negative pressure of 20 psf (960 Pa) at non-corner zones.
- Field Testing and Performance Requirements 1.3
 - None Required. Α.
- 1.4 Quality Assurance
 - Provide test reports from AAMA accredited laboratories certifying the Α. performance as specified in 1.2.
 - Test reports shall be accompanied by the curtain wall manufacturer's В. letter of certification stating that the tested curtain wall meets or exceeds the referenced criteria for the appropriate curtain wall type.
- 1.5 Reference
- Submittals 1.6
 - Contractor shall submit shop drawings; finish samples, test reports, Α. and warranties.
 - Samples of materials as may be requested without cost to owner, i.e., metal, glass, fasteners, anchors, frame sections, mullion section, corner section, etc.

1.7 Warranties

A. Total Curtain Wall Installation

- 1. The responsible contractor shall assume full responsibility and warrant for five years the satisfactory performance of the total curtain wall installation. This includes the glass (including insulated units), glazing, anchorage and setting system, sealing, flashing, etc. as it relates to air, water, and structural adequacy and the specifications and approved shop drawings.
- Any deficiencies due to such elements not meeting the specifications shall be corrected by the responsible contractor at their expense during the warranty period.

B. Window Material and Workmanship

 Provide written guarantee against defects in material and workmanship for 5 years from the date of final shipment.

C. Glass

- 1. Provide written warranty for insulated glass units, that they will be free from obstruction of vision as a result of dust or film formation on the internal glass surfaces caused by failure of the hermetic seal due to defects in material and workmanship.
- 2. Warranty period shall be for 10 (ten) years.

D. Finish

- Warranty period shall be for 20 years from the date of substantial completion.
- 2. Provide organic finish warranty based on AAMA standard 2605.

PART 2 - PRODUCTS

2.1 Materials

A. Aluminum

1. Extruded aluminum shall be 6063-T6 alloy and temper.

B. Glass

1. Reference Section 08 81 00 for Glass and Glazing.

C. Anchors

1. Perimeter and floor line anchors shall be aluminum or steel. All steel anchors shall be properly insulated from the aluminum.

D. Thermal Barrier

1. The thermal barrier shall be extruded PVC used as an applied thermal isolator.

2.2 Fabrication

A. General

1. All aluminum vertical and horizontal extrusions shall have a minimum wall thickness of .093" (2.3 mm) to .125" (3 mm).

B. Frame

- 1. Frame components shall be mechanically fastened by means of extruded aluminum shear blocks attached to vertical mullions.
- 2. Curtain wall system is able to accommodate separate interior and exterior finishes and colors.

C. Glazing

 Outside glazed curtain wall system shall be dry glazed with an exterior aluminum pressure plate and snap cover with interior and exterior dense EPDM preset gaskets.

D. Finish

- 1. Organic
 - a. Finish all exposed areas of aluminum windows and components with 70% PVDF Fluoropolymer Ultraton, AA-M12-C42-RIX AAMA 2605-98. Color shall be black.

PART 3 - Execution

3.1 Inspection

- A. Job Conditions
 - 1. All openings shall be prepared by others to the proper size and shall be plumb, level, and in the proper location and alignment as shown on the architect's drawings.

3.2 Installation

- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and established specifications, and erect all curtain wall components to all building bench marks and column center lines.
- B. Plumb and align curtain wall faces in a single plane for each wall plane, and erect curtain wall materials square and true. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, building movement, and specified wind loads.
- C. Adjust windows in curtain wall for proper operation after installation.
- D. Furnish and apply sealants to provide a weather tight installation at all joints and intersections and at opening perimeters. Wipe off excess material, leave all exposed surfaces and joints clean and smooth.
- E. Provide separation of disimilar materials and substrates.

3.3 Anchorage

- A. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.
- 3.4 Protection and Cleaning

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The general contractor shall protect the aluminum materials and finish against damage from construction activities and harmful substances. The general contractor shall remove any protective coatings as directed by the architect, and shall clean the aluminum surfaces as recommended for the type of finish applied.

END OF SECTION 084413

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Glass for glazed curtain walls.
 - 2. Glazing sealants and accessories.

1.2 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches (300 mm) square.
- C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.

1.4 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products:
 Manufacturer agrees to replace coated-glass units that deteriorate
 within specified warranty period. Deterioration of coated glass is
 defined as defects developed from normal use that are not attributed
 to glass breakage or to maintaining and cleaning coated glass contrary
 to manufacturer's written instructions. Defects include peeling,
 cracking, and other indications of deterioration in coating.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - AGC Glass Company North America, Inc. 1.
 - 2. Cardinal Glass Industries.
 - 3. Cristacurva.
 - 4. Dlubak Corporation.
 - Gardner Glass, Inc.
 - GGI; General Glass International.

 - 7. Glasswerks LA, Inc. 8. GTI; Glaz-Tech Industries.
 - 9. Guardian Glass; SunGuard.
 - 10. Hartung Glass Industries.
 - 11. JE Berkowitz, LP.
 - 12. Northwestern Industries, Inc.
 - 13. Oldcastle BuildingEnvelope™.
 - 14. Pilkington North America.
 - 15. Schott North America, Inc.
 - 16. Tecnoglass.
 - 17. Trulite Glass & Aluminum Solutions, LLC.
 - 18. Vetrotech Saint-Gobain.
 - 19. Viracon, Inc.
 - 20. Vitro.

2.2 PERFORMANCE REQUIREMENTS

- Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- Thermal and Optical Performance Properties: Provide glass with В. performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
 - Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-2. glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - Visible Reflectance: Center-of-glazing values, according to 3. NFRC 300.

GLASS PRODUCTS, GENERAL 2.3

Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.

- 1. GANA Publications: "Glazing Manual."
- 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
- E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

- A. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.
- B. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
- C. Heat-Strengthened Float Glass: ASTM C 1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.

2.5 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
 - 1. Sealing System: Dual seals.
 - 2. Perimeter Spacer: Aluminum with black, color anodic finish.
 - a. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:

- 1) Technoform Glass Insulation NA, Inc.
- 2) Thermix; a brand of Ensinger USA.

2.6 GLAZING SEALANTS

A. General:

- 1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
- 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
- 3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.
- B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
 - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
 - a. Dow Corning Corporation.
 - b. <u>GE Construction Sealants; Momentive Performance Materials</u> Inc.
 - c. May National Associates, Inc.; a subsidiary of Sika Corporation.
 - d. Pecora Corporation.
 - e. Sika Corporation.
 - f. Tremco Incorporated.

2.7 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
 - 1. AAMA 804.3 tape, where indicated.
 - 2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 - 3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
 - 1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.

2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS

- A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- B. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- C. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- D. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

PART 3 - EXECUTION

3.1 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

3.2 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Apply heel bead of elastomeric sealant.
- F. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- G. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.3 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.4 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.5 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.

3.6 INSULATING GLASS SCHEDULE

- A. Glass Type: Low-E-coated, clear insulating glass.
 - 1. Basis-of-Design Product: PPG Solar Ban 60.
 - 2. Overall Unit Thickness: 1 inch (25 mm).
 - 3. Minimum Thickness of Each Glass Lite: 6 mm.
 - 4. Outdoor Lite: Fully tempered float glass.
 - 5. Interspace Content: Argon.
 - 6. Indoor Lite: Fully tempered float glass.
 - 7. Low-E Coating: Sputtered on second surface.
 - 8. Winter Nighttime U-Factor: 0.24 maximum.
 - 9. Summer Daytime U-Factor: 0.24 maximum.
 - 10. Visible Light Transmittance: 12 percent minimum.
 - 11. Solar Heat Gain Coefficient: 0.39 maximum.
 - 12. Safety glazing required.
- B. Glass Type: Silicone-coated, low-E, insulating spandrel glass.
 - 1. Basis-of-Design Product: PPG ICD Spandrel Glass.

Project No. 2015904.06

- 2. Coating Color: As selected by Architect from manufacturer's full range.
- 3. Overall Unit Thickness: 1 inch (25 mm).
- 4. Minimum Thickness of Each Glass Lite: 6 mm.
- 5. Outdoor Lite: Fully tempered float glass.
- 6. Interspace Content: Argon.
- 7. Indoor Lite: Fully tempered float glass.
- 8. Low-E Coating: Pyrolytic or sputtered on second surface.
- 9. Opaque Coating Location: Fourth surface.
- 10. Winter Nighttime U-Factor: 0.24 maximum.
- 11. Summer Daytime U-Factor: 0.24 maximum.

END OF SECTION 088000

SECTION 099113 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following exterior substrates:
 - 1. Steel and iron.

1.2 DEFINITIONS

- A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- B. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- C. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- D. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- E. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- F. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
- B. Samples: For each type of paint system and each color and gloss of topcoat.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
 - 1. Behr Process Corporation.
 - 2. Benjamin Moore & Co.
 - 3. California Paints.
 - 4. Conco Paints.
 - 5. Coronado Paint; Benjamin Moore Company.
 - 6. Diamond Vogel Paints.
 - 7. Dulux (formerly ICI Paints); a brand of AkzoNobel.
 - 8. Dunn-Edwards Corporation.
 - 9. Duron, Inc.
 - 10. Frazee Paint; Comex Group.
 - 11. Glidden Professional.
 - 12. $\overline{\text{HEMPEL A/S}}$.
 - 13. Kelly-Moore Paint Company Inc.
 - 14. Kwal Paint; Comex Group.
 - 15. M.A.B. Paints.
 - 16. McCormick Paints.
 - 17. Parker Paint; Comex Group.
 - 18. PPG Architectural Coatings.
 - 19. Rodda Paint Co.
 - 20. Rust-Oleum Corporation; a subsidiary of RPM International, Inc.
 - 21. Sherwin-Williams Company (The).
 - 22. Valspar Corporation Architectural (Pro).
 - 23. Vista Paint Corporation.
 - 24. Zinsser; Rust-Oleum Corporation.

2.2 PAINT, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
 - Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- C. Colors: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Concrete: 12 percent.
 - 2. Fiber-Cement Board: 12 percent.
 - 3. Masonry (Clay and CMUs): 12 percent.
 - 4. Wood: 15 percent.
 - 5. Portland Cement Plaster: 12 percent.
 - 6. Gypsum Board: 12 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
- B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 CLEANING AND PROTECTION

- A. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- B. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.5 EXTERIOR PAINTING SCHEDULE

- A. Steel and Iron Substrates:
 - 1. Water-Based Light Industrial Coating System MPI EXT 5.1M:
 - a. Prime Coat: Primer, rust inhibitive, water based MPI #107.
 - b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
 - c. Topcoat: Light industrial coating, exterior, water based, gloss (MPI Gloss Level 6), MPI #164.

END OF SECTION 099113

Peoria Zoo Aviary Curtain Wall Replacement

Peoria Zoo 2320 N. Prospect Rd. Peoria, IL 61603

Bidding Documents

OWNER PROJECT #17-031 A/E PROJECT #2015904.06

DATE:

22 August 2017

Owner:

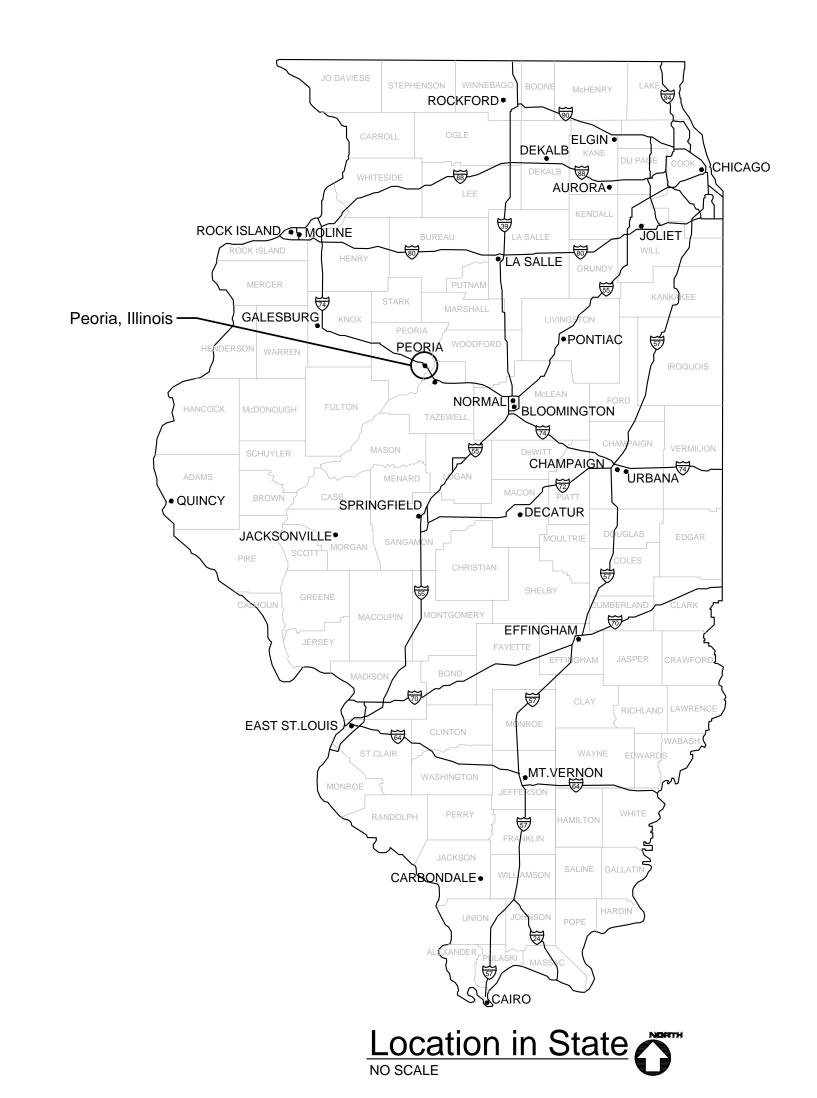
Peoria Park District 1125 West Lake Peoria, Illinois 61614

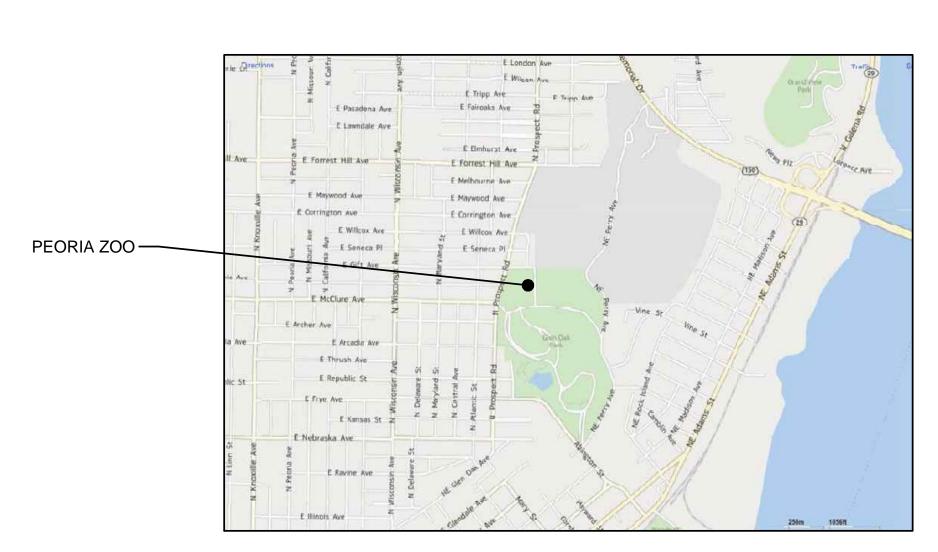
Architect/Mechanical/Engineer:

apaceDesign architects + engineers 2112 E. War Memorial Drive Peoria, Illinois 61614 Fax 309.685.4784

INDEX OF DRAWINGS:

G000 - TITLE SHEET A100 - PLANS AND ELEVATIONS A101 - SECTIONS AND DETAILS





Location in City

ABBREVIATIONS:

ADA	AMERICANS WITH DISABILITIES ACT	MANUF	MANUFACTURE (R)
A.F.F.	ABOVE FINISHED FLOOR	MAS.	MASONRY
ALT.		MAX	MAXIMUM
	ALTERNATE	M.B.	MARKERBOARD
ALUM	ALUMINUM		
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT (URAL)	MISC	MISCELLANEOUS
BRNG.	BEARING	MIN	MINIMUM
BLKNG	BLOCKING	MISC	MISCELLANEOUS
BD	BOARD	MTL OR MET	METAL
		MNTD.	MOUNTED
BLDG	BUILDING		
B.O.	BY OWNER	NO	NUMBER
<u>Q</u>	CENTER LINE	NIC	NOT IN CONTRACT
C/C.	CENTER TO CENTER	OC	ON CENTER
C.R.	CLASSROOM	OPNG	OPENING
CLNG	CEILING	OPP	OPPOSITE
CLR	CLEAR (ANCE)	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	O.S.B.	ORIENTED STRAND BOARD
COL(S)	COLUMN(S)	P.LAM	PLASTIC LAMINATE
COMP	COMPRESS (IBLE), COMPACTED	PLUMB.	PLUMBING
CONC	CONCRETE	PLYWD	
			PLYWOOD
CONSTR	CONSTRUCTION	PNT. OR PT	PAINT
CONT	CONTINUOUS	P.C.	PORTLAND CEMENT
COORD.	COORDINATE	RAD	RADIUS
CPT.	CARPET	REINF	
CT.	CERAMIC TILE		REINFORCE (D), (ING)
DBL	DOUBLE	REQ'D	REQUIRED
DP.	DEEP	REF	REFERENCE
DEMO		RB	RESILIENT BASE
	DEMOLITION	RM	ROOM
DET	DETAIL	R.T.U.	ROOF TOP UNIT
DIA	DIAMETER		
DIAG	DIAGONAL	SCHED	SCHEDULE (D)
DIM	DIMENSION	SLNT	SEALANT
DR. (S)	DOOR (S)	SF	SQUARE FEET
D.S.	DOWNSPOUT	SHT	SHEET
EA	EACH	SIM	SIMILAR
E.F.	EXHAUST FAN	S.C.WD	SOLID CORE WOOD
EIFS	EXTERIOR INSULATION FINISH SYSTEM		
		SPEC	SPECIFICATION (S)
ELEC	ELECTRICAL	SQ	SQUARE
	ELEVATION (S)	S.STL	STAINLESS STEEL
EQ	EQUAL		
EQUIP	EQUIPMENT	STL	STEEL
EXIST OR EX	EXISTING	S.A.T.	SUSPENDED ACOUSTICAL TILE CEILING
EXTER	EXTERIOR	STOR	STORAGE
F.B.	FACE BRICK		
FD.		SIM	SIMILAR
	FILE DRAWER, FLOOR DRAIN	STRUCT	STRUCTURAL
FDN	FOUNDATION	SUSP	SUSPENDED
F.E.M.A.	FEDERAL EMERGENCY MANAGEMENT ASSOCIATION	T	TALL
F.E.C.	FIRE EXTINGUISHER CABINET	T+G	TONGUE AND GROOVE
FIN	FINISH (ED)	T.B.	TACKBOARD
FLR(NG)	FLOOR (ING)	T.B.R.	TO BE REMOVED
` ,	· ·		
FRP	FIBERGLASS REINFORCED PANEL	THK	THICK (NESS)
FTG.	FOOTING	TO	TOP OF
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UON.	UNLESS OTHERWISE NOTED
		VB	VINYL BASE
GB.	GYPSUM BOARD		
GL	GLASS, GLAZING	VCT	VINYL COMPOSITION TILE
GYP	GYPSUM	VERT	VERTICAL
		VEST.	VESTIBULE
H	HIGH	WC.	WALL COVERING
HGT	HEIGHT	WWF	WELDED WIRE FABRIC
HR.	HOUR	W.	WIDTH
HORIZ.	HORIZONTAL	W/	WITH
HM	HOLLOW METAL		
		WIN (S)	WINDOW (S)
JNT.	JOINT	W/O	WITHOUT
INSUL	INSULATION	WD	WOOD
L	LENGTH		
LF	LINEAR FEET		

MATERIAL DESIGNATIONS:

Δ , ν	CONCRETE	ROUGH WOOD (DISCONTINUOUS)
	SAND OR GROUT	ROUGH WOOD (CONTINUOUS)
	COMPACTED FILL	CONCRETE MASONRY UNITS (CMU)
	INSULATION (RIGID) OR	FACE BRICK
	INSULATION (BATT.)	

GENERAL NOTES

- 1. ALL ITEMS INDICATED IN THIS SET OF DRAWINGS ARE CONTRACTOR PROVIDED, UNLESS SPECIFICALLY STATED OTHERWISE.
- 2. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL, UNLESS OTHERWISE INDICATED. 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, PRIOR TO SUBMITTING A BID.

REQUIRED BY GOVERNMENT AGENCIES AND UTILITIES.

INSULATION (SPRAY-ON FOAM TYPE)

- 4. CONTRACTOR SHALL CAREFULLY COORDINATE ALL WORK OF ALL TRADES, AND WORK BY SUBCONSULTANTS OF THE OWNER AND WORK OF THE OWNER. 5. ALL WORK OF THE PROJECT SHALL BE PROVIDED IN COMPLETE ACCORDANCE WITH THE 2012 IBC FAMILY OF CODES; AS WELL AS CITY OF PEORIA AND PEORIA COUNTY CODES AND ORDINANCES; AND SHALL BE CAREFULLY COORDINATED. ALL PLUMBING
- WORK SHALL MEET THE REQUIREMENTS OF THE STATE OF ILLINOIS PLUMBING CODE AND THE MUNICIPAL WATER AUTHORITY. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS AND FEES; INCLUDING BUT NOT LIMITED TO THOSE
- 7. THESE DRAWINGS ARE NOT INTENDED TO DEPICT EACH AND EVERY DETAIL OF THE PROJECT. AS THE PARTY IN THE FIELD, THE CONTRACTOR IS IN THE BEST POSITION TO VERIFY THAT ALL CONDITIONS ARE COMPLETED TO PROVIDE A FULLY OPERATIONAL AND COMPLETE FACILITY. THE CONTRACTOR SHALL DO SO.
- 8. CONTRACTOR SHALL CLEAN ENTIRE SITE ON A DAILY BASIS; AND SHALL ENDEAVOR TO KEEP ALL REFUSE TO A MINIMUM. 9. ALL REFUSE MATERIALS SHALL BE PROPERLY AND LAWFULLY DISPOSED OF OFF-SITE.
- 10. ALL NEW AND EXISTING TO REMAIN CONSTRUCTION SHALL BE FULLY PROTECTED FROM ANY AND ALL DAMAGE. CONTRACTOR SHALL BE
- RESPONSIBLE FOR FULL REPAIR TO ORIGINAL CONDITION, OF ANY SUCH CONSTRUCTION SO DAMAGED. 11. STORAGE OF MATERIALS AND SUPPLIES, AND ANY POSSIBLY HAZARDOUS MATERIALS, INCLUDING PAINT, SHALL BE LAWFULLY STORED.
- 12. CONTRACTOR AND SITE SUPERINTENDENT SHALL BE ACCESSIBLE BY CELLPHONE DURING NORMAL WORKING HOURS
- THROUGHOUT THE DURATION OF THE PROJECT. 13. ALL MANUFACTURERS, PRODUCTS, AND SYSTEMS SPECIFIED SHALL BE USED UNLESS AN EQUAL IS APPROVED BY ARCHITECT AND OWNER.
- 14. ALL MATERIALS, PRODUCTS, AND SYSTEMS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS, U.O.N. 15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS, NEW OR EXISTING, TO FACILITATE THE CONSTRUCTION CONTAINED WITHIN THIS SET OF DOCUMENTS. LAYOUT OF ALL NEW CONSTRUCTION SHALL BE COMPLETED AND VERIFIED
- 16. CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY/DUST/WEATHERTIGHT ENCLOSURES BOTH INTERIOR AND EXTERIOR. OWNER WILL
- UTILIZE INTERIOR AREAS DURING CONSTRUCTION. CONTRACTOR TO MAINTAIN EMERGENCY EGRESS AT ALL TIMES. 17. CONTRACTOR SHALL LAWFULLY ABATE AND DISPOSE OF ASBESTOS/HAZARDOUS CONTAINING MATERIALS.

BEFORE CONSTRUCTION BEGINS. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF FIELD CONDITIONS VARY.

18. CONTRACTOR SHALL FILL ALL HOLES, WITH NON-SHRINK FILLER, NOT BEING USED IN EXIST. STEEL CURTAIN WALL STRUCTURE TO REMAIN

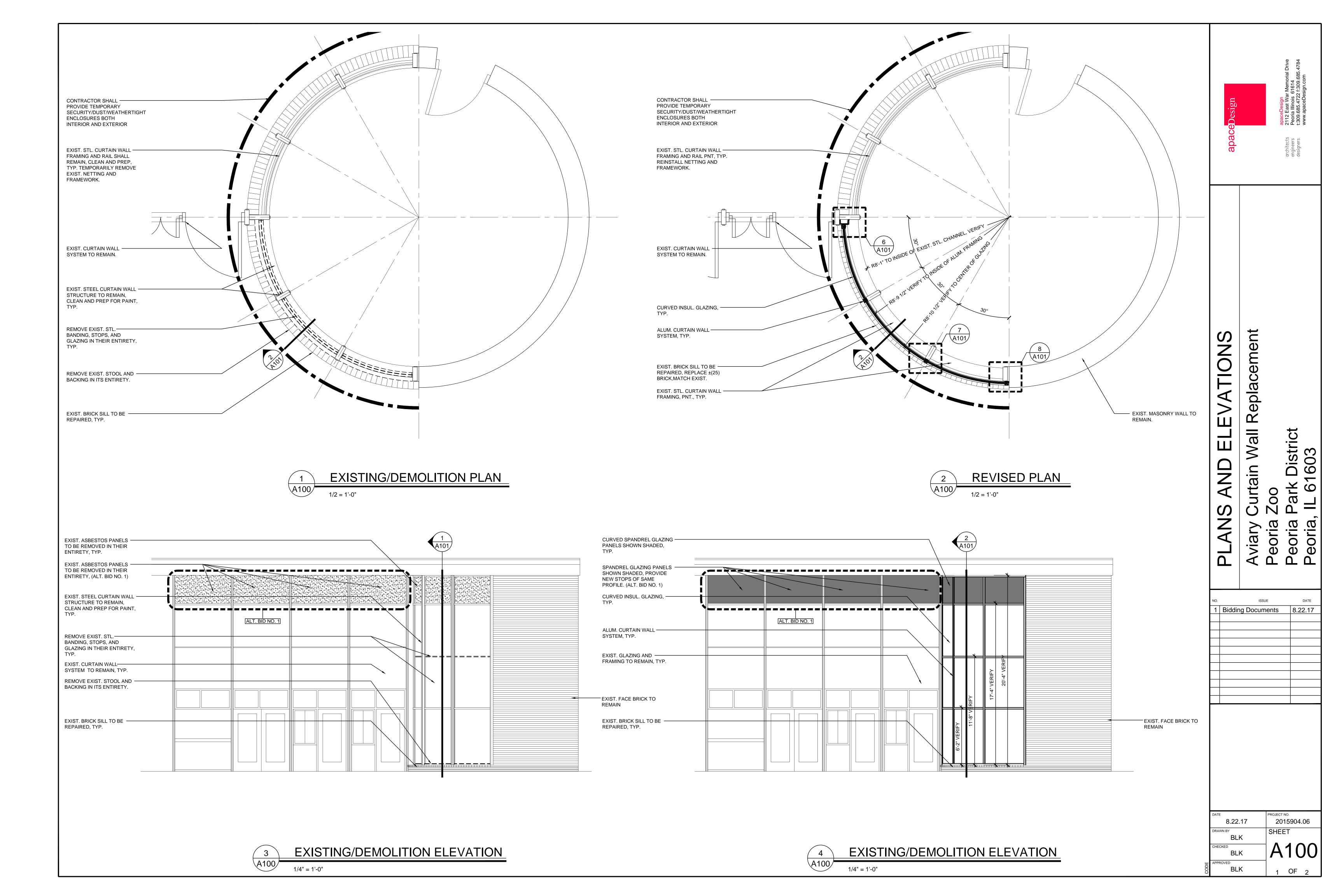


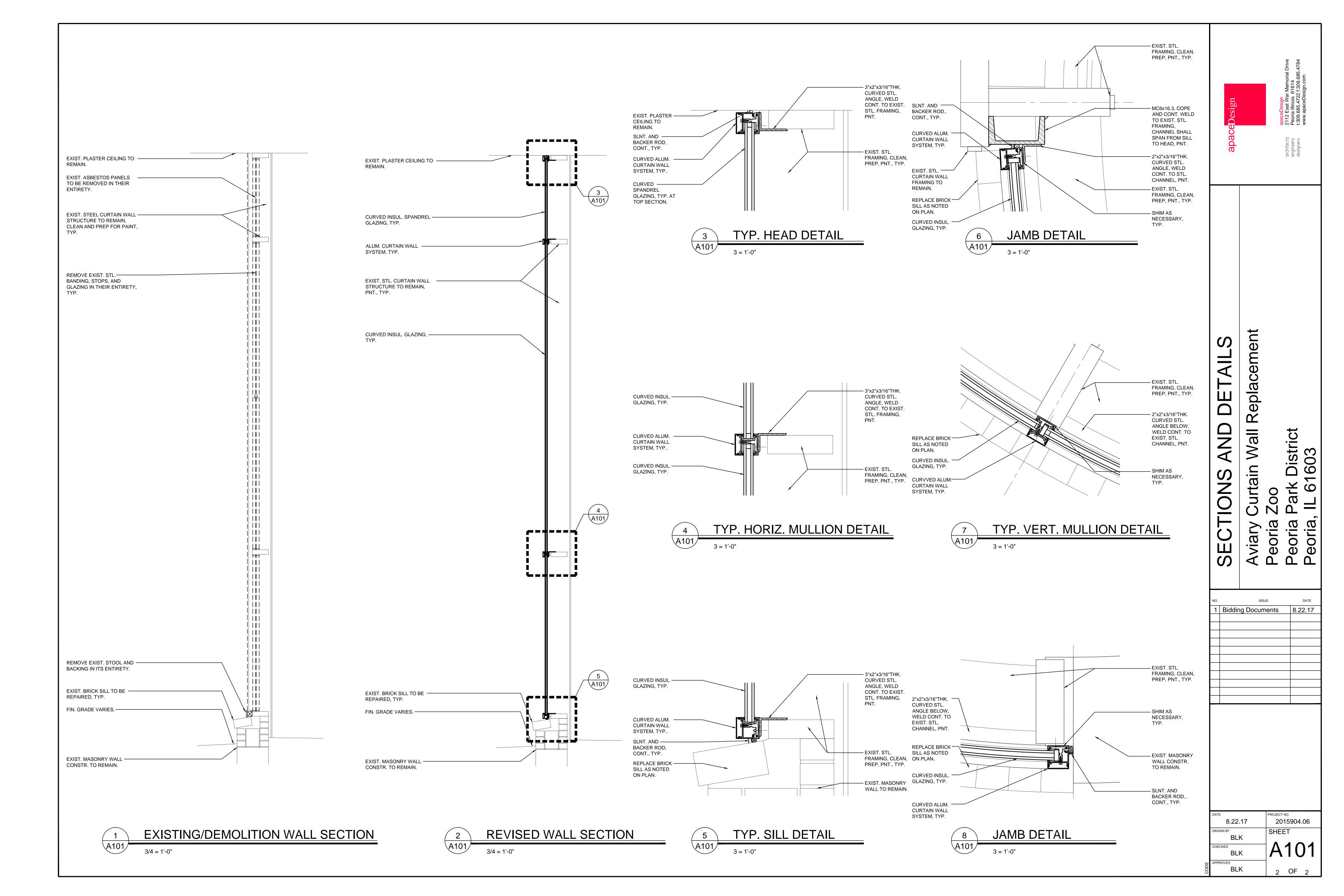
Replacement Ŏ Ē \Box \triangleleft

1 | Bidding Documents

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EXPIRES 11.30.18	,

2015904.06





ATTACHMENT A.6 INSURANCE REQUIREMENTS ROUTINE CONSTRUCTION, MAINTENANCE AND REPAIR PROJECTS

Contractor shall obtain insurance of the types and in the amounts listed below.

A. COMMERCIAL GENERAL AND UMBRELLA LIABILITY INSURANCE

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it shall apply separately to this project/location.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 10 93, or a substitute form providing equivalent coverage, and shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

Owner shall be included as an insured under the CGL, using ISO additional insured endorsement CG 20 10 or a substitute providing equivalent coverage, and under the commercial umbrella, if any. This insurance shall apply as primary insurance with respect to any other insurance or self-insurance afforded to Owner.

There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from pollution, explosion, collapse, or underground property damage.

B. CONTINUING COMPLETED OPERATIONS LIABILITY INSURANCE

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 each occurrence for at least one (1) year following substantial completion of the work.

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 10 93, or substitute form providing equivalent coverage, and shall, at minimum, cover liability arising from products-completed operations and liability assumed under an insured contract.

Continuing CGL insurance shall have a products-completed operations aggregate of at least two times its each occurrence limit.

Continuing commercial umbrella coverage, if any, shall include liability coverage for damage to the insured's completed work equivalent to that provided under ISO form CG 00 01.

C. BUSINESS AUTO AND UMBRELLA LIABILITY INSURANCE

Contractor shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 each accident. Such insurance shall cover liability arising out of any auto including owned, hired and non-owned autos.

Business auto insurance shall be written on Insurance Services Office (ISO) form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage equivalent to that provided in the 1990 and later editions of CA 00 01.

D. WORKERS COMPENSATION INSURANCE

Contractor shall maintain workers compensation as required by statute and employers liability insurance. The commercial umbrella and/or employers liability limits shall not be less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease.

If Owner has not been included as an insured under the CGL using ISO additional insured endorsement CG 20 10 under the Commercial General and Umbrella Liability Insurance required in this Contract, the Contractor waives all rights against Owner and its officers, officials, employees, volunteers and agents for recovery of damages arising out of or incident to the Contractor's work.

E. GENERAL INSURANCE PROVISIONS

1. Evidence of Insurance. Prior to beginning work, Contractor shall furnish Owner with a certificate(s) of insurance and applicable policy endorsement(s), executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.

All certificates shall provide for 30 days written notice to Owner prior to the cancellation or material change of any insurance referred to therein. Written notice to Owner shall be by certified mail, return receipt requested.

Failure of Owner to demand such certificate, endorsement or other evidence of full compliance with these insurance requirements or failure of Owner to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Owner shall have the right, but not the obligation, of prohibiting Contractor or any subcontractor from entering the project site until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by Owner.

Failure to maintain the required insurance may result in termination of this Contract at Owner's option.

With respect to insurance maintained after final payment in compliance with a requirement above, an additional certificate(s) evidencing such coverage shall be promptly provided to Owner whenever requested.

Contractor shall provide certified copies of all insurance policies required above within 10 days of Owner's written request for said copies.

- **2. Acceptability of Insurers.** For insurance companies which obtain a rating from A.M. Best, that rating should be no less than A VII using the most recent edition of the A.M. Best's Key Rating Guide. If the Best's rating is less than A VII or a Best's rating is not obtained, the Owner has the right to reject insurance written by an insurer it deems unacceptable.
- **3.** Cross-Liability Coverage. If Contractor's liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.
- **4. Deductibles and Self-Insured Retentions.** Any deductibles or self-insured retentions must be declared to the Owner. At the option of the Owner, the Contractor may be asked to eliminate such deductibles or self insured retentions as respects the Owner, its officers, officials, employees, volunteers and agents or required to procure a bond guaranteeing payment of losses and other related costs including but not limited to investigations, claim administration and defense expenses.
- **5. Subcontractors.** Contractor shall cause each subcontractor employed by Contractor to purchase and maintain insurance of the type specified above. When requested by the Owner, Contractor shall furnish copies of certificates of insurance evidencing coverage for each subcontractor.

F. INDEMNIFICATION

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner and the Architect and their officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses including but not limited legal fees (attorney's and paralegal's fees and court costs), arising

out of or resulting from the performance of the Contractor's work, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property, other than the work itself, including the loss of use resulting therefrom and (2) is caused in whole or I part by any wrongful or negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except to the extent it is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Paragraph. Contractor shall similarly protect, indemnify and hold and save harmless the Owner, its officers, officials, employees, volunteers and agents against and from any and all claims, costs, causes, actions and expenses including but not limited to legal fees, incurred by reason of Contractor's breach of any of its obligations under, or Contractor's default of, any provision of the Contract.

SAMPLE LIABILITY INSURANCE ENDORSEMENT

The following spaces preceded by an asterisk (*) need not be completed if this endorsement and policy have the same inception date.

ATTACHED TO AND FORMING	*EFFECTIVE DATE OF	*ISSUED TO
PART OF POLICY NUMBER	ENDORSEMENT	

This endorsement changes the policy. Please read it carefully.

AUTOMATIC ADDITIONAL INSUREDS

The following provision is added to (SECTION II), Who Is An Insured.

- 5. Any entity you are required in a written contract (hereinafter called Additional Insured) to name as an insured is an insured but only with respect to liability arising out of your premises, "your work" for the Additional Insured, or acts or omissions of the Additional Insured in connection with the general supervision of "your work" to the extent set forth below.
- a. The Limits of Insurance provided on behalf of the Additional Insured are not greater than those required by such contract.
 - b. The coverage provided to the Additional Insured(s) is not greater than that customarily provided by the policy forms specified in and required by the contract.
 - c. All insuring agreements, exclusions and conditions of this policy apply.
 - d. In no event shall the coverages or Limits of Insurance in this Coverage Form be increased by such contract.

Except when required otherwise by contract, this insurance does not apply to:

- 1) "Bodily injury" or "property damage" occurring after
 - a) All work on the project (other than service, maintenance or repairs) to be performed by or on behalf of the Additional Insured(s) at the site of the covered operations has been completed; or
 - b) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.
- 2) "Bodily injury" or "property damage" arising out of any act or omission of the Additional Insured(s) or any of their employees, other than the general supervision of work performed for the Additional Insured(s) by you.
- 3) "Property damage" to
 - a) Property owned, used or occupied by or rented to the Additional Insured(s);
 - b) Property in the care, custody or control of the Additional Insured(s) or over which the Additional Insured(s) is for any purpose exercising physical control; or

c) "Your work" for the Additional Insured(s).

With respect to Additional Insureds who are architects, engineers or surveyors, this insurance does not apply "bodily injury", "property damage", "personal injury" or "advertising injury" arising out of the rendering of or the failure to render any professional services by or for you, including:

- a) The preparing, approving, or failing to prepare or approve maps, drawings, opinions, reports, surveys, change orders, designs or specifications; and
- b) Supervisory, inspection or engineering services.

Any coverages provided hereunder shall be excess over any other valid and collectible insurance available to the Additional Insured(s) whether primary, excess, contingent or on any other basis unless a contract specifically requires that this insurance be primary or you request that it apply on a primary basis.

No person or organization is an Additional Insured with respect to the conduct of any current or past partnership or joint venture that is not shown as a Named Insured in the Declarations.

END OF ATTACHMENT A.6