

# Oak Brook Park District

## Family Recreation Center RTU Replacement Project (Units: 1A, 1 B, and 1 C)

### Bid Packet



Dave Thommes, Deputy Director  
630-645-9534  
[dthommes@obparks.org](mailto:dthommes@obparks.org)

Laure Kosey, Executive Director  
630-645-9535  
[lkosey@obparks.org](mailto:lkosey@obparks.org)

Charli Johnsos, Project Manager  
Kluber, Inc.  
[cjohnsos@kluberinc.com](mailto:cjohnsos@kluberinc.com)

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**INSTRUCTIONS TO BIDDERS  
OAK BROOK PARK DISTRICT  
FAMILY RECREATION CENTER RTU REPLACEMENT PROJECT**

**INSTRUCTIONS TO BIDDERS**

The Oak Brook Park District and Owner are one and the same. "Architect" or "Engineer" shall mean Kluber, Inc. which shall, through its designated representative, Charli Johnsos, cjohnsos@kluberinc.com, respond to questions and provide interpretations of the Specifications for this Project.

The words "Contractor" and "Bidder" shall mean the party bidding for or entering the Contract for the performance of the Work covered by the written Specifications and Drawings, and his/her legal representatives or authorized agents.

**A. BID DOCUMENTS**

1. The Bid Documents may be downloaded in PDF format from the Owner's website: <https://www.obparks.org/bids-rfps>. The Bid Documents are also available in printed format from the Administrative Office at the District's Family Recreation Center, 1450 Forest Gate Road, Oak Brook, IL 60523, Monday - Friday, 9:00 a.m. – 5:00 p.m. Please note the printed Drawings available at the Administration Office will be on 11" x 17" paper.

The Bid Documents may also be examined at the Architect's office:

Batavia, Illinois Office: 10 S. Shumway Ave., Batavia, IL 60510.

2. A mandatory pre-bid meeting will be held for this Project in the Family Recreation Center, 1450 Forest Gate Road, Oak Brook, IL 60523, on November 22, 2019 at 10:30 a.m.

**B. BID FORM**

1. Each bid shall be made on the "Bid Form" furnished by the District. The Bid Form shall be executed properly and all writing, including all signatures, shall be with black ink. Failure to use the Bid Form provided could result in rejection of the bid.
2. All applicable blank spaces on the "Bid Form" shall be fully completed, including the List of Subcontractors and the Bidder's Reference List, and all amounts shall be in words as well as in figures where applicable.
3. The bid shall bear the legal name of the business organization. The signatures shall be in longhand and executed by a duly authorized official of the Bidder's organization and the name of the official and title shall be typed below the signature.

4. Erasures, interlineations, corrections, or other changes on the "Bid Form" shall be explained or noted over the signature of the Bidder. No bid submitted with deviations or reservations from the full contract called for will be considered.
5. Bidders' prices are to include the delivery of all materials; including plant, equipment, supplies, tools, scaffolding, transportation, insurances, bonds, warranties, and all other items and facilities, and the performance of all labor and services, necessary for the proper completion of the Work except as may be otherwise expressly provided in the Contract Documents. Bids shall not include federal excise tax or state sales tax for materials to be incorporated in, or totally consumed in the prosecution of, the Work. An exemption certificate will be furnished by the Park District upon request of the Bidder.
6. Bidder must acknowledge all Addenda received in the spaces provided on the Contractor Bid Form. By submitting a bid, Bidder indicates that all considerations issued by Addendum are incorporated in the bid.
7. Attached to the Bid Form will be the Contractor's Compliance and Certification Attachment/ Substance Abuse Prevention Program Certification regarding the Bidder's compliance with applicable laws. **Failure of a Bidder to complete/submit a required certification shall be the basis for immediate rejection of that Bidder's bid.** The certification of the successful Bidder shall become a part of the Contract with the Park District.
8. The bids shall be sealed in an opaque envelope, marked with the name of the Bidder, the date and time of the bid, and addressed as follows:

Sealed Bid: Family Recreation Center RTU Replacement Project  
Oak Brook Park District  
1450 Forest Gate Road  
Oak Brook, IL 60523
9. Bid documents shall be delivered or mailed in time for delivery to the foregoing address no later than December 2, 2019 at 2:00 p.m. Oral bids or oral modifications to bids will not be considered. It is the sole responsibility of the Bidder to see that his bid is received in proper time. **No faxed or e-mail bid or modification of a bid will be considered.** The Park District is not responsible for the premature opening of bids not marked as required. Any bid opened prematurely due to the failure of the Bidder to mark the envelope in accordance with these Bid Documents will be considered non-responsive.
10. No bid can be withdrawn prior to the opening of the bids unless a written request for any such withdrawal, showing good cause for said withdrawal, is first delivered to the District at the foregoing address prior to commencement of the opening of bids. No Bidder may withdraw a bid after opening of the bids.

11. Bids will be publicly opened on the due date.

### **C. REQUIREMENTS OF BIDDERS**

Bidders must be able to demonstrate that they: a) have experience in performing and have successfully performed and are still actively engaged in performing work similar in kind and scope to the Work of the Project; and b) are able to show that they have adequate laborers and materials to successfully complete the Work as indicated in the Bid Documents and within the time required by the Bid Documents. The Contractor shall not have been debarred or determined ineligible for public contracts by any governmental agency.

The following information must be attached to the bid proposal. Failure to do so may result in disqualification of the Bidder.

1. On a separate sheet, list all construction projects your organization has in progress, giving the name of the project, project description, project address, owner and telephone number, architect and telephone number, contract amount, percent complete, and scheduled completion date.

2. On the Bidder's Reference List form provided herein, list at least three (3) construction projects your organization has completed in the past five (5) years, which are comparable in scope, giving the name of the project, project description, project address, owner and telephone number.

3. On the List of Subcontractors form provided herein, provide a list of anticipated subcontractors, if any, including their firm names, addresses and telephone numbers. All subcontractors to be used shall be approved by the Owner. If the Contractor subcontracts any part of the Work for this project, the Contractor shall not under any circumstances be relieved of his liabilities and obligations; any subcontractor for this project will be recognized only in the capacity of an employee of the Contractor.

4. On a separate sheet, list all administrative proceedings and litigation filed by or against Bidder in the past five (5) years, including the name and case number, name/jurisdiction of the court or administrative agency, and a summary of each claim/case, including current status and if no longer pending, the disposition. The foregoing includes but is not limited to information regarding any proceedings and actions taken by any governmental agency to debar or disqualify the Bidder from bidding on public contracts, including the name of the agency initiating the proceeding/action, the nature of the proceeding/action, the claimed basis for the proceeding/action and the current status or disposition of the proceeding/action.

5. On a separate sheet, indicate all instances in which Bidder has been rejected for not being a responsible bidder, giving the name of the project, project description, project address, owner and telephone number, architect and telephone number, contract amount, and an explanation of the circumstances surrounding the rejection.

6. On a separate sheet, provide a list of all contracts to which you were a party and with respect to which you were declared to be in breach of one or more provisions, giving a the type of contract, the project location where applicable, the names and addresses of the parties to the contract, the name of the party declaring the breach, the nature of the claimed breach and current status or resolution of the claim. If a construction contract, also provide the name, address and telephone number of the architect and, if applicable also the construction manager or Owner's representative.

Other required submittals include: Bid Form; Contractor's Compliance and Certification Attachment/ Substance Abuse Prevention Program Certification. **Failure of a Bidder to complete/submit these documents shall be the basis for immediate rejection of that Bidder's bid.**

The Park District reserves the right to require of any Bidder such information to verify the Bidder's qualifications and financial status and to withhold formal signing of the contract until such information is received.

#### **D. MODIFICATION OF BIDS**

Any Bidder may modify his bid by written notice (signed by the Bidder) at any time prior to the scheduled closing time for receipt of bids, provided that such written notice is received by the District prior to the closing time. Modifications of bid submittals sent by facsimile will not be permitted.

#### **E. EXAMINATION OF CONTRACT DOCUMENTS AND SITE**

Each Bidder shall visit the site(s) of the proposed Work and fully acquaint himself with conditions, as they exist, and shall undertake such additional inquiry and investigation as he shall deem necessary so that he may fully understand the requirements, facilities, possible difficulties and restrictions attending the execution of the Work under the Contract. Bidder shall thoroughly examine and be familiar with all of the Bid Documents including, but not limited to, the Drawings and the written Specifications. Any conflicts or discrepancies found between or among Bid Documents including, but not limited to, the Drawings and written Specifications and the site conditions, or any errors, omissions or ambiguities in the Drawings or written Specifications shall be immediately reported to the Architect and written clarification requested prior to submission of a bid.

The failure or omission of any Bidder to obtain, receive or examine any form, instrument, or information or to visit the Project site(s), and become knowledgeable with respect to conditions there existing, or to seek needed clarification shall in no way relieve any Bidder from any obligations with respect to his bid. By submitting a bid, the Bidder agrees, represents and warrants that he has undertaken such investigation as he deemed necessary, has examined the site(s) and the Bid Documents, has obtained all needed clarifications and where the Bid Documents indicate in any part of the Work, that a given result be produced, that the Bid Documents are adequate and the required result can be produced as indicated in the Specifications and Drawing(s). Once the award has been made, failure to have undertaken

and completed the foregoing tasks shall not be cause to alter the original Contract or to request additional compensation.

**F. ACCEPTANCE OR REJECTION OF BIDS**

The Park District may accept the bid of, and award the contract for the Work to, the lowest responsive and responsible Bidder as determined by and in the sole discretion of the Park District.

The Owner reserves the right to (1) reject all bids; (2) reject only certain bids which are non-conforming or non-responsive to the bid requirements; (3) accept only a portion, part or specific items of Work of all and reject others, as the Owner shall in its sole discretion determine to be in its best interest; and/or (4) award the Contract to the responsible Bidder submitting the lowest bid responsive to the bidding requirements. No bid will be accepted from or Contract awarded to any person, firm or corporation that is in arrears or is in default to the Park District upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to said Park District or that has failed to perform faithfully any previous contract with the Park District.

In the event of a rejection of a portion, part, or certain items of Work of all bids, the bid of each Bidder shall automatically be deemed reduced by the amount of such rejected part or item at the unit price or other cost designated therefore by that Bidder on its submitted Contractor Bid Form. The successful Bidder so selected may not refuse to enter into a Contract with the Owner on the basis that the Owner awarded a Contract for less than all portions or items of the Work specified in the Bid Documents. The Oak Brook Park District Board of Park Commissioners reserves the right to waive any technicalities or irregularities, and to disregard any informality on the bids and bidding, when in its opinion the best interest of the Park District will be served by such actions and in accordance with applicable law.

**G. SURETY**

All bids must be accompanied by a bid bond or bank cashier's check payable to the Oak Brook Park District for ten percent (10%) of the amount of the bid and drawn on a responsive and responsible bank doing business in the United States. All bids not accompanied by a bid security, when required, will be rejected.

The bid security of all except the three (3) lowest responsible Bidders will be returned after the decision to accept or reject bids by the Oak Brook Park District Board of Park Commissioners. The bid security of the three (3) lowest responsible Bidders will be returned after acceptance by the Park District from the successful Bidder, an acceptable Performance Bond, Labor and Materials/Payment Bond and a certificate of insurance naming the Oak Brook Park District as the certificate holder and as additional insured, and the successful Bidder has executed and returned to the Park District the Contract for the Work presented by the Park District.

Prior to beginning Work, the successful Bidder shall furnish a Performance Bond, and Labor and Materials/Payment Bond in the amount of 110% of the Contract Sum, using a form similar to the AIA-A312-2010 form, or its current equivalent, or one acceptable to Owner, cosigned by a surety company licensed to conduct business in the State of Illinois and with at least an "A" rating and a financial rating of at least "X" in the latest edition of the Best Insurance Guide. Said bond shall guarantee the faithful performance of the Work in accordance with the Contract, the payment of all indebtedness incurred for labor and materials, and guarantee correction of Work. The cost of each bond shall be included in the Contract Sum. The Bidder and all Subcontractors shall name the Park District as an obligee on all bonds. Said bonds shall meet the requirements of the Illinois Public Construction Bond Act, 30 ILCS 550/0.01 *et seq.* and any further amendments thereto. Bidder shall include in its Performance Bond and Labor and Material Payment Bond such language as shall guarantee the faithful performance of the Prevailing Wage Act as required in these Bid Documents.

The Performance Bond and Labor and Material Payment Bond will become a part of the Contract. The failure of the successful Bidder to enter into the Contract and supply the required bonds and evidence of insurance within ten (10) days after the Contract is presented for signature, or within such extended period as the Park District may grant, shall constitute a default, and the Park District may either award the Contract to the next responsible Bidder, or re-advertise for bids. In the event of a default, the Owner need not return the defaulting Bidder's bid surety and may charge against the defaulting Bidder for the full difference between the amount for the bid and the amount for which a Contract for the Work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the defaulting Bidder's bid surety, provided that the District's retention of the bid guarantee shall not preclude the District from holding the Bidder fully liable for any and all damages which are in excess of said partial liquidated damages, and which shall otherwise be incurred by the District, including reasonable attorneys' fees, arising from the Bidder's failure to enter into said Contract and to deliver the same back to the District within said ten (10) day period.

In addition to the required performance and labor and material payment bonds, the successful Bidder shall furnish a maintenance bond and/or irrevocable letter of credit in the amount of the Contract to guarantee the Work performed under the Contract against defective workmanship and/or defective materials of any nature for a period of not less than twenty-four (24) months from the date of acceptance of the Work, materials or equipment provided. The maintenance bond shall be in a form acceptable to District. A letter of credit furnished in lieu of maintenance bond shall be in a form designated by the District's attorneys. The District reserves the right to waive the maintenance bond in its own interests.

#### **H. WITHDRAWAL OF BID**

Bidders may withdraw or cancel their bids at any time prior to the advertised bid opening time by signing and submitting a request for said withdrawal. After the bid opening time, no bid shall be withdrawn or canceled for a period of sixty (60) calendar days.

## **I. ACCEPTANCE AND CONTRACT**

Owner will award the Contract to the lowest most responsible and responsive Bidder, as determined by Owner. In considering the Bidder's responsibility, the Owner may evaluate, among other factors, the ability of the Bidder to provide experienced labor sufficient in numbers to timely and properly complete the services, conformity with the Specifications, serviceability, quality, and the financial capability of the Bidder, and the performance of the Bidder on other projects.

The Owner shall have the right to accept Alternates in any order or combination, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

Bids will be awarded to one Bidder for the entire Project or to any series of Bidders for an appropriate proportion of the Project. If specified in the Bid Form, awards will be based upon the submitted unit prices.

The acceptance of a bid will be by a Notice of Award, signed by a duly authorized representative of the Park District; no other act by the Park District shall constitute the acceptance of a bid. The acceptance of a bid by the Park District shall bind the successful Bidder to execute and perform the Work of the Contract. The successful Bidder to whom the Contract is awarded by the Park District shall sign and deliver to the Park District for execution by the Park District all required copies of the Contract, along with all required insurance and surety documents within ten (10) days after presentation to him of the Contract for signature. In case the Bidder shall fail or neglect to do so, he will be considered as having abandoned the Contract, and as being in default to the Owner. The Owner may thereupon re-advertise or otherwise award said Contract and forfeit the Bid Security.

The Advertisement for Bids, Instructions to Bidders, General Conditions, Supplementary and/or Special Conditions, if any, Drawings, Specifications, Contractor Bid Form, Addenda, if any, Contractors Compliance and Certifications Attachment, and Substance Abuse Certification and the Prevailing Wage Determination and Supersedes Notice comprise the Bid Documents. The Bid Documents, together with the Standard Abbreviated Form of Agreement Between Owner and Contractor, AIA Document A104-2017, as modified by the Park District and included in these Bid Documents, and the Performance Bond and Labor Material Payment Bond and proof of insurance comprise the Contract Documents.

## **J. INTERPRETATION OF THE CONTRACT DOCUMENTS**

The Park District shall in all cases determine the amount or quantity of the several kinds of Work which are to be paid for under this Contract, and shall decide all questions which may arise relative to the execution of the Contract on the part of the Contractor, and all estimates and decisions shall be final and conclusive. The Park District shall have the right to make alterations in the lines, grades, plans, forms, or dimensions of the Work herein contemplated either before or after the commencement of the Work. If such alterations

diminish the quantity of the Work to be done, they shall not constitute a claim for damage or for anticipated profits on the work dispensed with, or if they increase the amount of Work, such increase shall be paid according to the quantity actually done and at the price or prices stipulated for such Work in the Contract. The Park District reserves the right to approve, an equal to or superior to product or equipment required under the Specifications, or to reject as not being and equal to or superior to the product or equipment required under the Specifications. If the Bidder is in doubt as to the interpretation of any part of the Bid Documents, or finds errors, discrepancies or omissions from any part of the Contract Documents, he must submit a written request for interpretation thereof not later than five (5) days prior to opening of bids to the Park District. Address all communications to the Architect. If an error or omission is discovered in the Bid Documents after the bid opening, the Park District reserves the right: 1) to determine whether to require the submission of new bids; or 2) if the error or omission is of such a nature that it was reasonably discoverable upon a careful review of the Bid Documents, to award the Contract to the lowest responsive and responsible Bidder as determined by the Park District and to require that Contractor to perform the Work in accordance with an issued correction by the Park District and for the amount bid by the Contractor. Such decisions are final and not subject to recourse. Errors and omissions made by the Bidder cannot be corrected after the bid opening.

**K. ADDENDA**

Any interpretation, correction to, or addition to the Bid Documents will be made by written Addendum and will be delivered by mail or fax to each prime Bidder of record. The written Addenda constitute the only interpretations of the Bid Documents; the Park District accepts no responsibility for any other claimed interpretations or communications.

It is the responsibility of each Bidder to verify that he has received all Addenda prior to submitting a bid. It is also the responsibility of each Bidder to verify that all subcontractors and material suppliers whose prices are incorporated in the Bidder's bid are familiar with the Bid Documents in their entirety, including all Addenda issued up to the time of bid opening.

In the event a conflict or omission is discovered in the Bid Documents after the issuing of the last Addendum such that an interpretation cannot be issued by the Architect or Park District prior to bidding, the Bidder is directed to estimate on and provide the quantity and quality of material and labor consistent with the overall represented and indicated Work so as to provide all materials, equipment, labor, and services necessary for the completion of the Work in accordance with the Bid Documents.

**L. SUBSTITUTIONS DURING BIDDING**

Unless otherwise indicated, the use of brand names in the Specifications is used for the purpose of establishing a grade or quality. Bidders proposing to use an alternate that is equal to or superior to in every respect to that required by the Specifications must request approval for the proposed substitution by completing and submitting to the Architect the

Substitution Request Form included in the Specifications at least seven (7) business days prior to the bid opening.

Additionally, Bidders requesting approval for use of an alternate must provide certification by the manufacturer that the substitute proposed is equal to or superior in every respect to that required by the Contract Documents, and that its in-place performance will be equal to or superior to the product or equipment specified in the application indicated. The Bidder, in submitting the request for substitution, waives the right to additional payment or an extension of Contract Time because of the failure of the substitute to perform as represented in the request for substitution.

The Architect may request additional information or documentation necessary for evaluation of the request for substitution. The Architect will notify all Bidders of acceptance of the proposed substitute by means of an Addendum to the Bid Documents. The Architect's approval of a substitute during bidding does not relieve the Contractor of the responsibility to submit required shop drawings and to comply with all other requirements of the Contract Documents, including but not limited to proper performance of all components of the Work and suitability for the uses specified.

Bids proposing alternates not previously approved by the Architect will be considered non-responsive and rejected. The Architect and Park District reserve the right to determine whether a substituted selection, in their judgment, is equal to or better quality and therefore an acceptable alternate. Such decisions are final and not subject to recourse.

**CONDITIONS OF THE CONTRACT  
OAK BROOK PARK DISTRICT  
FAMILY RECREATION CENTER RTU REPLACEMENT PROJECT**

**GENERAL CONDITIONS**

The General Conditions are the General Provisions of the Standard Abbreviated Form of Agreement Between Owner and Contractor, AIA Document A104-2017, as modified by the Park District and included in these Bid Documents (the “General Conditions”).

**SUPPLEMENTARY CONDITIONS**

The General Conditions are hereby amended to include the following:

**1. COMMENCEMENT AND COMPLETION DATE**

The Work for the Contract shall commence on December 17, 2019, or on such earlier date as may be agreed upon by the parties. Contractor shall achieve Substantial Completion on or before April 10, 2020 and shall achieve Final Completion on or before May 11, 2020, unless otherwise extended by agreement of the parties pursuant to the General Conditions.

**2. USE OF THE SITE**

The Contractor shall confine all equipment, the storage of materials and the operations of its workers, to limits indicated by law, ordinances, permits, or directions of the Owner and shall not unreasonably encumber the site with such materials. The site shall not be utilized for the storage of vehicles, materials, equipment, or fixtures not intended for the Work to be performed.

**3. COOPERATION WITH UTILITIES**

The Contractor shall notify all utility companies, public and private, as necessary in advance of commencing performance of the Work. The responsibility for moving water lines, gas lines, wire lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cable ways, signals and all other utility appurtenances which are within the limits of the proposed construction will be assumed by the Contractor, at no additional compensation.

The Contractor shall verify the location of all utilities prior to the start of construction and shall be responsible for the preservation of existing utility installation and the cost of providing precautionary supports, braces, etc. to insure against damage to said utility installation.

The cost to repair and replace any new or existing utilities damaged will be paid for by the Contractor.

It is understood and agreed that the Contractor has considered in its bid all of the permanent and temporary utility appurtenances in their present or relocated positions and that no additional compensation will be allowed for delays, inconvenience, or damage sustained by the Contractor, due to any interference from the said utility appurtenances or the operation of moving them either by the utility company or by the Contractor, or on account of any special construction methods required in performing the Work due to the existence of said appurtenances whether in their present or relocated positions.

**4. PROTECTION OF PROPERTY -SAFETY RESPONSIBILITY**

In accordance with the Specifications, the Contractor shall protect all existing property and improvements within the Project site and those adjacent to the Owner's property in a manner agreed upon between the Owner and Contractor. The Contractor shall be responsible for the repair cost of any damage created by its operations or the operations of any subcontractors.

Contractor shall comply with State and Federal regulations as outlined in the latest revision of the Federal Construction Safety Standards and with applicable provisions and regulations of Occupation Safety and Health Administration (OSHA), Standards of the William-Steiger Occupational Health and Safety Act of 1970 (revised). The Contractor and Owner shall each be responsible for their respective agents and employees.

The Contractor shall be obligated to indemnify, hold harmless and protect the Owner, its officers, employees and agents, from any actions or suits instituted as a direct or indirect result of any injury or damage consequent upon any failure to use or misuse by the Contractor, its agents and employees and any subcontractor, its agents and employees, of any ladder, support or other mechanical contrivance erected or constructed by any person or any or all kinds of equipment whether or not Owner or furnished by the Owner.

**5. INSURANCE**

**BIDDER'S ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW. IT IS HIGHLY RECOMMENDED THAT THE BIDDER CONFER WITH ITS INSURANCE CARRIER REGARDING THESE REQUIREMENTS. FAILURE TO MEET THESE REQUIREMENTS IS CAUSE FOR CANCELLATION OF THE CONTRACT.**

The successful Bidder shall obtain insurance of the types and in the amounts listed below.

**a. Commercial General and Umbrella Liability Insurance**

The successful Bidder shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$2,000,000 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 04 13, 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).

The District, its elected and appointed officials, employees, agents and volunteers shall be included as an additional named insured under the CGL, using ISO additional insured endorsement CG 20 26 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 District. Any insurance or self-insurance maintained by the District shall be deemed excess of such bidder's insurance and shall not contribute with it.

**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 \$2,000,000 each occurrence for at least three years following Substantial Completion of the Work.

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 04 13, 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**

The successful Bidder 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**

The successful Bidder shall maintain workers compensation 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.

Such Bidder waives all rights against District and its officers, officials, employees, volunteers and agents for recovery of damages arising out of or incident to such Bidder's activities.

**e. General Insurance Provisions**

i. Evidence of Insurance: The successful Bidder shall furnish the District 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 the District prior to the cancellation or material change of any insurance referred to therein. Written notice to the District shall be by certified mail, return receipt requested.

Failure of the District to demand such certificate, endorsement or other evidence of full compliance with these insurance requirements, or failure of the District to identify a coverage deficiency from evidence that is provided, shall not be construed as a waiver of such Bidder's obligation to maintain such insurance.

The District shall have the right, but not the obligation, of prohibiting such Bidder from entering the premises until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by District.

Failure to maintain the required insurance may result in termination of the Contract entered by the parties at the District's option.

Such Bidder shall provide certified copies of all insurance policies required above within 10 days of the District's written request for said copies.

ii. Acceptability of Insurers: All insurance companies shall maintain a rating no less than A-VII from A.M. Best, based on 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 District has the right to reject insurance written by an insurer it deems unacceptable.

iii. Deductibles and Self-Insured Retentions: Any deductibles or self-insured retentions must be declared to the District. At the option of the District, the successful Bidder may be asked to eliminate such deductibles or self-insured retentions as respects the District, its officers, officials, employees, volunteers and agents, or such Bidder may be required to procure a bond guaranteeing payment of losses and other related costs, including, but not limited to, investigations, claims administration and defense expenses.

**f. 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.

**6. INDEMNIFICATION**

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner and its officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses including but not limited to legal fees (attorney's and paralegals' 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 (i) 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 there from and (ii) is caused in whole or in 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, regardless of whether or not 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.

Nothing contained herein shall be construed as prohibiting the District, its officers, employees or agents from defending, through the selection and use of their own agents, attorneys and experts, any claims, suits, demands, proceedings or actions brought against them. The District's participation in its defense shall not remove the successful Bidder's duty to indemnify, defend and hold the District harmless as set forth herein.

The indemnification required hereunder shall not be limited by reason of the enumeration of insurance coverage herein provided.

The successful Bidder's indemnification of the District shall survive the termination or expiration of the Contract.

**7. WARRANTY**

- A. The Work performed and the materials and equipment installed under this Contract shall be in compliance with the Contract Documents and must be guaranteed by the Contractor and the Surety for a period of twenty four (24) months from Final Completion against defective workmanship and material of any nature. On all material or equipment incorporated, the Contractor and its Surety must guarantee that the type, quality, design and performance will fully meet the requirements of the Specifications and Drawings.
- B. The Contractor shall provide the Owner with manufacturer's warranties for all materials and equipment installed under the Contract.
- C. A Maintenance Bond or Irrevocable Letter of Credit meeting the requirements set forth in the Instructions to Bidders shall be furnished by the Contractor to guarantee the Work performed, and the materials and equipment provided under the Contract.

**SPECIAL CONDITIONS**

- 1. The Family Recreation Center shall remain open to the public for the duration of the Project. As such, Contractor shall maintain the Project site in a manner that ensures safe access to the Family Recreation Center amenities by the public, Park District staff and others requiring access to the Family Recreation Center. Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.
- 2. Time is of the essence to the Contract. Should the Contractor fail to complete the Work on or before the Substantial Completion date as stipulated in the Contract or within such extended time as may be have been allowed, the Contractor shall be liable and shall pay to the Owner the sum of \$175.00 per calendar day, not as a penalty but as a liquidated damages for each day of overrun in the Contract Time or such extended time as may have been allowed. The liquidated damages for failure to complete the Contract on time are approximate, due to the impracticality of calculating and proving actual delay costs. The costs of delay represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Owner during extended and delayed performance by the Contractor for the Work. The liquidated damage amount specified will accrue and be assessed until Final Completion of the total physical Work of the Contract even though the Work may be substantially complete. The Owner will deduct

these liquidated damages from any monies due or to become due to the Contractor from the Owner.

**BID FORM  
OAK BROOK PARK DISTRICT  
FAMILY RECREATION CENTER RTU REPLACEMENT PROJECT**

(Please complete in ink, and print or type)

TO: Oak Brook Park District  
1450 Forest Gate Road  
Oak Brook, IL 60523

FROM: \_\_\_\_\_  
NAME OF BIDDER

\_\_\_\_\_  
STREET ADDRESS

\_\_\_\_\_  
CITY STATE ZIP

\_\_\_\_\_  
PHONE

\_\_\_\_\_  
EMAIL ADDRESS

**FOR:** Family Recreation Center RTU Replacement Project

By submission of its bid, the Bidder acknowledges, agrees, represents, declares and warrants:

- A. That he has carefully examined the written Specifications and Drawings and is thoroughly familiar therewith, and that he has visited the site of the proposed Work to arrive at a clear understanding of the conditions under which the Work is to be done, and that he has compared the site with the Drawings and Specifications and has satisfied himself as to all conditions affecting the execution of the Work;
- B. That all modifications have been submitted with this bid;
- C. That he has checked carefully the bid figures and understands that he shall be responsible for any errors or omissions based on these Specifications and alternates as submitted on the Bid Proposal Form;
- D. That it is understood and agreed that the Oak Brook Park District reserves the right to accept or reject any or all bids, or to combine or separate any section or work, and to waive any technicalities;
- E. To hold the bid open for sixty (60) days subsequent to the date of the bid opening;
- F. To enter into and execute a Contract with the Owner within ten (10) days after the date of the Notice of Award, if awarded on the basis of this bid, and in connection therewith to:
  - (a) Furnish all bonds and insurance required by the Contract Documents;
  - (b) Accomplish the Work in accordance with the Contract Documents; and
  - (c) Complete the Work within the time requirements as set forth in the Bid Documents.

- G. That if this bid is accepted, the Bidder is to provide all of the necessary equipment, tools, apparatus, labor, and other means of construction, and to do all of the Work and to furnish all of the materials specified in the Bid Documents in the manner and at the time therein prescribed, and in accordance with the requirements set forth;
- H. To commence Work as specified in the Instructions to Bidders, and to prosecute the Work in such a manner, and with sufficient materials, equipment and labor as will ensure its completion within reasonable time, it being understood and agreed that the completion within such reasonable time is an essential part of this Contract;
- I. That any and all prices stated in the proposal include all costs of labor, materials, equipment, insurance, bonds, overhead and profit, and any and all other costs normal to doing business.

**The undersigned Bidder agrees to perform the Work for the following lump sum price:**

Base Bid	Amount
Replace 3 Roof Top Units and associated building automation control systems at Family Recreation Center.	\$

**Total Lump Sum Bid:** \_\_\_\_\_

Alternate Bid	Amount
Replace existing roof top portals at all locations at all 3 roof top units.	\$

Bids will be awarded to one Bidder for the entire Project or to any series of Bidders for an appropriate proportion of the Project.

The undersigned Bidder hereby acknowledges the receipt of the following addenda (if any) distributed by the Park District.

Addendum No. \_\_\_\_\_ Date: \_\_\_\_\_  
 Addendum No. \_\_\_\_\_ Date: \_\_\_\_\_

The Work for the Contract shall commence on December 17, 2019, or on such earlier date as may be agreed upon by the parties. Substantial Completion of the Project shall be on or before April 10, 2020 and Final Completion of the Project shall be on or before May 11, 2020, unless otherwise extended by agreement of the parties pursuant to the General Conditions.

The undersigned Bidder agrees that if this bid is accepted by the Park District, it will perform all Work in accordance with the requirements of the Contract.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2019.

\_\_\_\_\_  
 Full Name of Bidder (Print) (a) Individual ( )  
 (b) Partnership ( )  
 (c) Corporation ( )

Name and Title of Authorized Agent  
 if Corporation or Partnership (Print): \_\_\_\_\_

\_\_\_\_\_  
Full Name and Title of Bidder (Signature)

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City/State/Zip

\_\_\_\_\_  
Email

Phone \_\_\_\_\_

**LIST OF SUBCONTRACTORS**

Bidder submits a list of subcontractors for each trade relative to the Work to be performed under the Contract with the District, and agrees that if selected the successful Contractor, the Bidder will promptly confer with the District's agents on the question of which subcontractors the Bidder proposes to use, including submission of their qualifications. It is agreed that the District may substitute for any proposed subcontractor, another subcontractor for the trade against whose standing and ability the Bidder makes no objection in writing, and the Bidder will use all such finally selected subcontractors at the amount named in their respective subcontracts, and be in every way responsible for them and their work as if they had been originally named in the Bidder's bid, the unit, total and alternate Contract prices being adjusted to confirm thereto.

Subcontractor Name & Address                      Classification of Work                      Amount of Subcontract

1.		
2.		
3.		
4.		



## CONTRACTOR COMPLIANCE AND CERTIFICATIONS ATTACHMENT

**Note: The following certifications form an integral part of the Agreement between the Owner and Contractor. Breach by Contractor of any of the certifications may result in immediate termination of the Contractor's services by Owner.**

THE UNDERSIGNED CONTRACTOR HEREBY ACKNOWLEDGES, CERTIFIES, AFFIRMS AND AGREES AS FOLLOWS:

- A. Contractor has carefully read and understands the contents, purpose and legal effect of this document as stated above and hereafter in this document. The certifications contained herein are true, complete and correct in all respects.
- B. Contractor shall abide by and comply with, and in contracts which it has with all persons providing any of the services or Work on this Project on its behalf shall require compliance with, all applicable Federal, State and local laws and rules and regulations including without limitation those relating to 1) fair employment practices, affirmative action and prohibiting discrimination in employment; 2) workers' compensation; 3) workplace safety; 4) wages and claims of laborers, mechanics and other workers, agents, or servants in any manner employed in connection with contracts involving public funds or the development or construction of public works, buildings or facilities; and 5) steel products procurement.
- C. All contracts for this Project are subject to the provisions of the Illinois Prevailing Wage Act (820 ILCS 130/0.01 *et seq.*), providing for the payment of the prevailing rate of wage to all laborers, workmen and mechanics engaged in the Work. Contractor shall pay prevailing rates of wages in accordance with the Illinois Department of Labor's wage determination and any subsequent determinations issued by the Illinois Department of Labor, all in accordance with applicable law. These revisions may be accessed by computer at <http://labor.illinois.gov/>. Contractor is responsible for determining the applicable prevailing wage rates at the time of bid submission and at the time of performance of the Work. Failure of Contractor to make such determination shall not relieve it of its obligations in accordance with the Contract Documents. Contractor shall also comply with all other requirements of the Act including without limitation those pertaining to inclusion of required language in subcontracts, job site posting, maintenance and submission of certified payroll records and inspection of records. Contractor is not barred from entering into public contracts under Section 11a of the Illinois Prevailing Wage Act due to its having been found to have disregarded its obligations under the Act.
- D. To the best of Contractor's knowledge, no officer or employee of Contractor has been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, or any unit of local government, nor has any officer or employee made an admission of guilt of such conduct which is a matter of record.
- E. Contractor is not barred from bidding on or entering into public contracts due to having been convicted of bid-rigging or bid rotating under paragraphs 33E-3 or 33E-4 of the Illinois Criminal Code. Contractor also certifies that no officers or employees of the Contractor have been so convicted and that Contractor is not the successor company or a new company created by the officers or owners of one so convicted. Contractor further certifies that any such conviction occurring after the date of this certification will be reported to the Owner, immediately in writing, if it occurs during the bidding process, or otherwise prior to entering into the Contract therewith.

- F. Pursuant to the Illinois Human Rights Act (775 ILCS 5/2-105), Contractor has a written sexual harassment policy that includes, at a minimum, the following information: (i) a statement on the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment utilizing examples; (iv) the Contractor's internal complaint process including penalties; (v) the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission and directions on how to contact both; and (vi) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act. Contractor further certifies that such policy shall remain in full force and effect. A copy of the policy shall be provided to the Illinois Department of Human Rights upon request.
- G. (i) Contractor's bid proposal was made without any connection or common interest in the profits anticipated to be derived from the Contract by Contractor with any other persons submitting any bid or proposal for the Contract; (ii) the Contract terms are in all respects fair and the Contract will be entered into by Contractor without collusion or fraud; (iii) no official, officer or employee of the Owner has any direct or indirect financial interest in Contractor's bid proposal or in Contractor, (iv) the Contractor has not directly or indirectly provided, and shall not directly or indirectly provide, funds or other consideration to any person or entity (including, but not limited to, the Owner and the Owner's employees and agents), to procure improperly special or unusual treatment with respect to this Agreement or for the purpose of otherwise improperly influencing the relationship between the Owner and the Contractor. Additionally, the Contractor shall cause all of its officers, directors, employees, (as the case may be) to comply with the restrictions contained in the preceding sentence.
- H. Contractor knows and understands the Equal Employment Opportunity Clause administered by the Illinois Department of Human Rights, which is incorporated herein by this reference, and agrees to comply with the provisions thereof. Contractor further certifies that Contractor is an "equal opportunity employer" as defined by Section 2000 (e) of Chapter 21, Title 42 of the United States Code Annotated and Executive Orders #11246 and #11375 as amended, which are incorporated herein by this reference.
- I. Neither Contractor nor any substantially owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.
- J. Contractor is not barred from contracting with the Owner because of any delinquency in the payment of any tax administered by the Illinois Department of Revenue, unless it is being contested. Contractor further certifies that it understands that making a false statement regarding delinquency in taxes is a Class A misdemeanor and, in addition, voids the Contract and allows the Owner, a municipal entity, to recover in a civil action all amounts paid to the Contractor.
- K. If Contractor has 25 or more employees at the time of letting of the Contract, Contractor knows, understands and acknowledges its obligations under the Illinois Drug Free Workplace Act (30 ILCS 580/1 *et seq.*) and certifies that it will provide a drug-free workplace by taking the actions required under, and otherwise implementing on a continuing basis, Section 3 of the Drug Free Workplace Act. Contractor further certifies that it has not been debarred and is not ineligible for award of this Contract as the result of a violation of the Illinois Drug Free Workplace Act.
- L. Contractor knows, understands and acknowledges its obligations under the Substance Abuse Prevention on Public Works Act, 820 ILCS 265/1 *et seq.* A true and complete copy of Contractor's



**SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION**

The Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1 et seq., (“Act”) prohibits any employee of the Contractor or any Subcontractor on a public works project to use, possess or be under the influence of a drug or alcohol, as those terms are defined in the Act, while performing work on the project. The Contractor/Subcontractor **[circle one]**, by its undersigned representative, hereby certifies and represents to the Oak Brook Park District that **[Contractor/Subcontractor must complete either Part A or Part B below]:**

A. The Contractor/Subcontractor **[circle one]** has in place for all of its employees not covered by a collective bargaining agreement that deals with the subject of the Act a written substance abuse prevention program, a true and correct copy of which is attached to this certification, which meets or exceeds the requirements of the Substance Abuse Prevention on Public Works Act, 820 ILCS 265/1 et seq. **[Contractor/Subcontractor must attach a copy of its substance abuse prevention program to this Certification.]**

\_\_\_\_\_  
Name of Contractor/Subcontractor (print or type)

\_\_\_\_\_  
Name and Title of Authorized Representative (print or type)

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_ Dated: \_\_\_\_\_

B. The Contractor/Subcontractor **[circle one]** has one or more collective bargaining agreements in effect for all of its employees that deal with the subject matter of the Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1 et seq.

\_\_\_\_\_  
Name of Contractor/Subcontractor (print or type)

\_\_\_\_\_  
Name and Title of Authorized Representative (print or type)

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_ Dated: \_\_\_\_\_

## **IMPORTANT NOTICE OF RESPONSIBILITY FOR PERIODIC REVISIONS TO PREVAILING WAGE RATES**

Revisions of the Prevailing Wage Rates are made periodically by the Illinois Department of Labor (IDOL). As required by the Illinois Prevailing Wage Act, the contractor/subcontractor has an obligation to check IDOL's web site for revisions to prevailing wage rates. These revisions may be accessed by computer at <http://labor.illinois.gov/>. Bidders and contractors performing work on this Project are responsible for determining the applicable prevailing wage rates at the time of bid submission and performance of the Work. Failure of a bidder/contractor to make such determination shall not relieve it of its obligations in accordance with the Contract Documents. In consideration for the award to it of the contract for this Project, the contractor agrees that the foregoing notice satisfies any obligation of the public body in charge of this Project to notify the contractor of periodic changes in the prevailing wage rates and the contractor agrees to assume and be solely responsible for, as a material obligation of the contractor under the contract, the obligation to determine periodic revisions of the prevailing wage rates, to notify its subcontractors of such revisions, to post such revisions as required for the posting of wage rates under the Act, and to pay and require its subcontractors to pay wages in accordance with such revised rates.

# Owner/Contractor Agreement

# AIA<sup>®</sup> Document A104<sup>™</sup> – 2017

## **Standard Abbreviated Form of Agreement Between Owner and Contractor**

**AGREEMENT** made as of the    day of    in the year Two Thousand Nineteen  
*(In words, indicate day, month and year.)*

**BETWEEN** the Owner:  
*(Name, legal status, address and other information)*

Oak Brook Park District  
1450 Forest Gate Road  
Oak Brook, IL 60523

and the Contractor:  
*(Name, legal status, address and other information)*

for the following Project:  
*(Name, location and detailed description)*

Family Recreation Center RTU Replacement Project  
1450 Forest Gate Road  
Oak Brook, IL 60523

This Project includes the replacement of three roof top units and associated temperature control systems at Owner's Family Recreation Center, and all other incidental and collateral work necessary to complete the Project in accordance with the Contract Documents.

The Architect:  
*(Name, legal status, address and other information)*

Kluber, Inc.  
10 South Shumway Avenue  
Batavia, IL 60510

The Owner and Contractor agree as follows.

### **ADDITIONS AND DELETIONS:**

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

**TABLE OF ARTICLES**

- 1 THE WORK OF THIS CONTRACT
- 2 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 3 CONTRACT SUM
- 4 PAYMENT
- 5 DISPUTE RESOLUTION
- 6 ENUMERATION OF CONTRACT DOCUMENTS
- 7 GENERAL PROVISIONS
- 8 OWNER
- 9 CONTRACTOR
- 10 ARCHITECT
- 11 SUBCONTRACTORS
- 12 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS
- 13 CHANGES IN THE WORK
- 14 TIME
- 15 PAYMENTS AND COMPLETION
- 16 PROTECTION OF PERSONS AND PROPERTY
- 17 INSURANCE AND BONDS
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- 19 MISCELLANEOUS PROVISIONS
- 20 TERMINATION OF THE CONTRACT
- 21 CLAIMS AND DISPUTES
- 22 OTHER CONDITIONS OR PROVISIONS
- 23 COMPLIANCE WITH LAWS

**EXHIBIT A DETERMINATION OF THE COST OF THE WORK**

**ARTICLE 1 THE WORK OF THIS CONTRACT**

The Contractor shall execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

**ARTICLE 2 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION**

§ 2.1 The date of commencement of the Work shall be:

Init.

(Check one of the following boxes.)

- The date of this Agreement.
- A date set forth in a notice to proceed issued by the Owner.
- Established as follows:  
(Insert a date or a means to determine the date of commencement of the Work.)  
December 17, 2019

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 2.2 The Contract Time shall be measured from the date of commencement.

### § 2.3 Substantial Completion

§ 2.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

(Check the appropriate box and complete the necessary information.)

- Not later than ( ) calendar days from the date of commencement of the Work.
- By the following date: April 10, 2020

§ 2.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

Portion of Work	Substantial Completion Date
NA	

§ 2.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 2.3, liquidated damages, if any, shall be assessed as set forth in Section 3.5.

### § 2.4 Final Completion

§ 2.4.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Final Completion of the entire Work:

(Check the appropriate box and complete the necessary information.)

- Not later than ( ) calendar days from the date of commencement of the Work.
- By the following date: May 11, 2020

§ 2.4.2 If the Contractor fails to achieve Final Completion as provided in this Section 2.4, liquidated damages, if any, shall be assessed as set forth in Section 3.5.

## ARTICLE 3 CONTRACT SUM

§ 3.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be one of the following:

(Check the appropriate box.)

- Stipulated Sum, in accordance with Section 3.2 below

- [ ] Cost of the Work plus the Contractor's Fee, in accordance with Section 3.3 below
- [ ] Cost of the Work plus the Contractor's Fee with a Guaranteed Maximum Price, in accordance with Section 3.4 below

*(Based on the selection above, complete Section 3.2, 3.3 or 3.4 below.)*

**§ 3.2** The Stipulated Sum shall be Dollars (\$ ), subject to additions and deductions as provided in the Contract Documents.

**§ 3.2.1** The Stipulated Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:  
*(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)*

**§ 3.2.2** Unit prices, if any:  
*(Identify the item and state the unit price and the quantity limitations, if any, to which the unit price will be applicable.)*

Item	Units and Limitations	Price per Unit (\$0.00)
------	-----------------------	-------------------------

**§ 3.2.3** Allowances, if any, included in the stipulated sum:  
*(Identify each allowance.)*

Item	Price
NA	

*(Paragraphs deleted)*

**§ 3.2.4** Adjustments to the Contract Sum: Adjustments to the Contract Sum for changes in the Work other than changes in the Work involving items for which unit prices were requested by Owner and provided in Contractor's Submitted Bid Proposal, shall be made as follows:

1. In the manner agreed to by the Parties, or in the absence of agreement then the combined allowance for overhead and profit in connection with changes to the Work shall be the lesser of the amount, if any, included in the Contractor's bid proposal, or the following:
  - a. Five percent (5%) of the cost of the change in the Work involved if performed by the Contractor not involving Subcontractors, or
  - b. Five percent (5%) of the cost of the change in the Work involved performed by Subcontractors, plus two percent (2%) of the cost of the change in the Work for the Contractor's supervision of the work performed by the Subcontractors.

When both additions and credits covering related Work are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

**§ 3.2.5** Overtime, if and when specifically authorized in advance in writing by the Owner shall be paid by the Owner on the basis of premium payment if any, plus the cost of insurance and taxes based on the premium payment period. No overhead or profit may be charged for overtime. The Contractor shall not be entitled to any payment for overtime necessitated by the failure of the Contractor to perform the Work in accordance with the Contract Documents including without limitation to the Contractor's failure to prosecute the Work diligently and on an uninterrupted basis and with a sufficient work force so as to achieve completion of the Work within the time and in the manner

Int.

contemplated by the Contract Documents or otherwise due to the fault of the Contractor. In such instances if the Owner requires the Contractor to perform Work on an overtime basis, all costs for and associates with such overtime shall be borne by the Contractor.

*(Paragraphs deleted)*

*(Table deleted)*

*(Paragraphs deleted)*

*(Table deleted)*

**§ 3.5 Liquidated damages, if any:**

*(Insert terms and conditions for liquidated damages, if any.)*

Time is of the essence to the Contract. Should the Contractor fail to complete the Work on or before the Substantial Completion date as stipulated in the Contract or within such extended time as may be have been allowed, the Contractor shall be liable and shall pay to the Owner the sum of \$175.00 per calendar day, not as a penalty but as a liquidated damages for each day of overrun in the Contract Time or such extended time as may have been allowed. The liquidated damages for failure to complete the Contract on time are approximate, due to the impracticality of calculating and proving actual delay costs. The costs of delay represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Owner during extended and delayed performance by the Contractor for the Work. The liquidated damage amount specified will accrue and be assessed until Final Completion of the total physical Work of the Contract even though the Work may be substantially complete. The Owner will deduct these liquidated damages from any monies due or to become due to the Contractor from the Owner.

**ARTICLE 4 PAYMENT**

**§ 4.1 Progress Payments**

**§ 4.1.1** Based upon Applications for Payment properly completed and accompanied by all supporting documentation and other submittals required by the Contract Documents, submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, and agreed to by the Owner and not subsequently nullified by the Architect in accordance with the Contract Documents, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

**§ 4.1.2** The period covered by each Application for Payment shall be one calendar month ending on the last day of the month.

**§ 4.1.3** Provided that an Application for Payment, which is in proper form and accompanied by the required supporting documents and submittals, in form and substance required by the Contract Documents, is received by the Architect not later than the 10th day of a month, certified by Architect and not subsequently nullified by Architect, the Owner shall make payment of the certified amount to the Contractor not later than the fifteenth day of the following month. If an Application for Payment is received by the Architect after the date fixed above, payment shall be made by the Owner not later than forty-five ( 45 ) days after the Architect receives the Application for Payment.

*(Federal, state or local laws may require payment within a certain period of time.)*

**§ 4.1.4** For each progress payment made prior to Final Completion of the Work, the Owner may withhold retainage from the payment otherwise due as follows:

*(Insert a percentage or amount to be withheld as retainage from each Application for Payment and any terms for reduction of retainage during the course of the Work. The amount of retainage may be limited by governing law.)*

10% of the Contract Sum

**§ 4.1.5** Payments due and unpaid under the Contract, and any penalties associated with the same, shall be paid in accordance with the provisions of, the Illinois Local Government Prompt Payment Act, 50 ILCS 505/1 *et seq.*

*(Paragraph deleted)*

**§ 4.2 Final Payment**

**§ 4.2.1** Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has achieved Final Completion of the Work, including Final Completion for Contractor’s responsibility to correct Work as provided in Sections 9.4 and 18.2, and to satisfy other requirements, if any, which extend beyond final payment;
- .2 the Contractor has submitted a final accounting for the Cost of the Work, where payment is on the basis of the Cost of the Work with or without a Guaranteed Maximum Price; and
- .3 a final Certificate for Payment has been issued by the Architect in accordance with Section 15.7.1.

**§ 4.2.2** Subject to § 4.2.1, the Owner’s final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect’s final Certificate for Payment and approval by Owner.

**ARTICLE 5 DISPUTE RESOLUTION**

**§ 5.1 Binding Dispute Resolution**

The method of binding dispute resolution shall be as follows:

*(Check the appropriate box.)*

- Arbitration pursuant to Section 21.6 of this Agreement
- Litigation in a court of competent jurisdiction
- Other *(Specify)*

**ARTICLE 6 ENUMERATION OF CONTRACT DOCUMENTS**

**§ 6.1** The Contract Documents are defined in Article 7 and, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

**§ 6.1.1** The Agreement is this executed AIA Document A104™–2017, Standard Abbreviated Form of Agreement Between Owner and Contractor.

**§ 6.1.2**

*(Paragraphs deleted)*

Intentionally Omitted.

**§ 6.1.3** The Supplementary and other Conditions of the Contract are those included in the Project Manual dated November 18, 2019.

*(Table deleted)*

**§ 6.1.4** The

*(Paragraphs deleted)*

Specifications are those included in the Project Manual dated November 18, 2019.

*(Table deleted)*

**§ 6.1.5** The Drawings are those included in the Project Manual dated November 18, 2019.

*(Either list the Drawings here or refer to an exhibit attached to this Agreement.)*

*(Table deleted)*

**§ 6.1.6** The Addenda, if any:

Number	Date	Pages
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Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are enumerated in this Article 6.

**§ 6.1.7** Additional documents, if any, forming part of the Contract Documents:

- .1 Other Exhibits:

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(Check all boxes that apply.)

Exhibit A, Determination of the Cost of the Work.

AIA Document E204™–2017, Sustainable Projects Exhibit, dated as indicated below:  
(Insert the date of the E204-2017 incorporated into this Agreement.)

The Sustainability Plan:

Title	Date	Pages
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Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
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.2 Other documents, if any, listed below:

(List here any additional documents that are intended to form part of the Contract Documents.)

- a. Project Manual for Family Recreation Center RTU Replacement Project, dated November 18, 2019, incorporated herein by reference.
- b. Contractor’s Proposal, dated \_\_\_\_\_, 2019, attached to and incorporated in this Agreement as **Exhibit A**.
- c. Contractor’s Compliance and Certification, a copy of which is attached to and incorporated in this Agreement as **Exhibit B**.
- d. Performance Bond, Labor Material Payment Bond and Maintenance Bond, copies of which are attached to and incorporated as part of this Agreement by reference.

**ARTICLE 7 GENERAL PROVISIONS**

**§ 7.1 The Contract Documents**

The Contract Documents are enumerated in Article 6 and consist of this Agreement (including, if applicable, Supplementary and other Conditions of the Contract), Drawings, Specifications, Addenda issued prior to the execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

**§ 7.2 The Contract**

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind between any persons or entities other than the Owner and the Contractor.

**§ 7.3 The Work**

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor’s obligations. The Work may constitute the whole or a part of the Project.

#### § 7.4 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

#### § 7.5 Ownership and use of Drawings, Specifications and Other Instruments of Service

§ 7.5.1 The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 7.5.2 The Contractor, Subcontractors, Sub-subcontractors and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to the protocols established pursuant to Sections 7.6 and 7.7, if applicable, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

7.5.3 The Owner is the owner of the Contract Documents. The Contractor may retain one record set for use with this Project only. All copies of the Contract Documents except the Contractor's record set, shall be returned or suitably accounted for to the Owner on request upon completion of the Work.

#### § 7.6 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. If applicable, the parties may use AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

#### § 7.7 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, and the requisite AIA Document G202™–2013, Project Building Information Modeling Protocol Form, if completed, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

#### § 7.8 Severability

The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

#### § 7.9 Notice

§ 7.9.1 Except as otherwise provided in Section 7.9.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission in accordance with AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

*(If other than in accordance with AIA Document E203–2013, insert requirements for delivering Notice in electronic format such as name, title and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)*

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§ 7.9.2 Notice of Claims shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

*(Paragraphs deleted)*

## **ARTICLE 8 OWNER**

### **§ 8.1 Information and Services Required of the Owner**

§ 8.1.1 Intentionally omitted.

§ 8.1.2 The Owner shall furnish all necessary surveys and a legal description of the site.

§ 8.1.3 Subject to the Contractor's duties and obligations under the Contract Document and § 9.1.1 of this Agreement, the Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 8.1.4 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 9.6.1, the Owner shall secure and pay for other necessary approvals, easements, assessments, and charges required for the construction, use, or occupancy of permanent structures or for permanent changes in existing facilities.

### **§ 8.2 Owner's Right to Stop the Work**

If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents, or fails or refuses to provide a sufficient amount of properly supervised and coordinated labor, material or equipment so as to be able to complete the Work within the Contract Time, or fails to pay subcontractors or material suppliers timely or to remove and discharge within ten days any lien filed upon the Owner's property or funds by anyone claiming by, through or under the Contractor, or disregards the instructions of the Architect or Owner when based on the requirements of the Contract Documents, or otherwise fails to carry out the Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order is eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity.

### **§ 8.3 Owner's Right to Carry Out the Work**

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents, or fails to perform a duty under or comply with a provision of the Contract Documents and fails within a seven-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, or fails within such seven-day period to eliminate (or diligently commence to eliminate) the cause of any stop work order issued under Section 8.2 thereof, the Owner may, without prejudice to any other remedies the Owner may have, correct such deficiencies, default or neglect and may deduct the actual cost thereof, including Owner's expenses and compensation for the Architect's services made necessary thereby, from the payment then or thereafter due the Contractor. Architect may, pursuant to Section 15.4.3, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including the Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 21.

## **ARTICLE 9 CONTRACTOR**

### **§ 9.1 Review of Contract Documents and Field Conditions by Contractor**

§ 9.1.1 By its execution of the Contract, the Contractor acknowledges, agrees, represents, and warrants that: (a) the Contractor has carefully and thoroughly examined the Contract Documents, and the Contract Documents are full and complete, include all items necessary for the proper execution and completion of the Work, are sufficient to have enabled the Contractor to determine the cost of the Work and the time required for performance of the Work and to enable Contractor to construct the Work indicated therein in accordance with laws, ordinances, codes, regulations and rules applicable to the Work, and otherwise to fulfill all its obligations thereunder, including, but not limited to, Contractor's obligation to construct the Work for an amount not in excess of the Contract Sum on or before the date(s) of Substantial and Final Completion established in the Contract; (b) the omission from the Contract Documents of minor details which ordinarily form a part of first class work and are necessary to the completion of the Work as indicated, shall not be cause for any extra cost but shall be included as if specifically mentioned or detailed; (c) the Contractor has visited and examined the Project site and surrounding areas, examined all physical, legal and other

conditions affecting the Work and correlated its personal observations with the requirements of the Contract Documents, and understands, is familiar with, and satisfied itself as to the same, including, without limitation: (i) the nature, location, and character of the Project and the site, including, without limitation surface conditions of the site and subsurface conditions observable or ascertainable upon the exercise of reasonable diligence including all structures and obstructions thereon and thereunder, both natural and manmade and all surface and subsurface water conditions of the site and the surrounding area; (ii) the nature, location, and character of the general area in which the Project is located, including without limitation, its generally prevailing climatic conditions, available labor supply and labor costs, and available equipment supply and equipment costs; (iii) the availability, quality, quantity and cost of all labor, materials, supplies, tools, equipment and professional services necessary to complete the Work in the manner and within the cost and time frame indicated by the Contract Documents.

By its execution of the Contract, the Contractor acknowledges, agrees, represents and warrants that it has carefully examined the Drawings, Specifications and other Contract Documents and having visited the Project site it has no actual knowledge of any discrepancies, omissions, ambiguities, or conflicts in or between the Contract Documents except those, if any, which have been clarified by Architect by Addenda to the Contractor's satisfaction, and that if it becomes aware of any such discrepancies, omissions, ambiguities, or conflicts, it has an obligation to and will immediately notify Owner and Architect of such fact, and will not proceed until it shall have received the written interpretation of Owner or Architect. If any such differences or conflicts which were ascertainable by careful review of the documents were not called to the Owner's and Architect's attention prior to submission by the Contractor of its bid proposal, the Architect shall decide which of the conflicting requirements will govern based upon the most stringent or highest quality of the requirements and, subject to the approval of the Owner, the Contractor shall perform the Work at no additional cost and/or time to the Owner in accordance with the Architect's decision.

**§ 9.1.2** Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 8.1.2, shall take field measurements of any existing conditions related to that portion of the Work and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies, or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents.

**§ 9.1.3** Except as otherwise required by the Contract Documents, the Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

## **§ 9.2 Supervision and Construction Procedures**

**§ 9.2.1** The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention under the full-time supervision of an approved site superintendent or foreman capable of communicating clearly with the Architect and the Owner in English. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters.

**§ 9.2.2** The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for or on behalf of the Contractor or any of its Subcontractors.

**§ 9.2.3** The Contractor has the responsibility to ensure that all material suppliers and Subcontractors, their agents, and employees adhere to the Contract Documents, and that they order materials on time, taking into account the current market and delivery conditions and that they provide materials on time. The Contractor shall coordinate its Work with that of all others on the Project including deliveries, storage, installations, and construction utilities. The Contractor shall be responsible for the space requirements, locations, and routing of its equipment. In areas and locations where the proper and most effective space requirements, locations, and routing cannot be made as indicated, the Contractor

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shall meet with all others involved, before installation, to plan the most effective and efficient method of overall installation.

### **§ 9.3 Labor and Materials**

**§ 9.3.1** Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

**§ 9.3.2** The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.

**§ 9.3.3** The Contractor may make a substitution equivalent to or superior to the specified materials only with the consent of the Owner, after evaluation by the Architect and approval by the Owner and in accordance with a Modification.

**§ 9.3.4** The Contractor shall only employ labor on the Project or in connection with the Work capable of working harmoniously with all trades, crafts and any other individuals associated with the Project. The Contractor shall also use its reasonable best efforts to minimize the likelihood of any strike, work stoppage or other labor disturbance. The Contractor shall comply with all requirements of OSHA and shall indemnify and hold harmless the Owner against and from any claims, losses, damages or expenses it may incur as a result of the failure of the Contractor or any of its Subcontractors to comply with OSHA requirements.

**§ 9.3.5** If the Work is to be performed by trade unions, the Contractor shall make all necessary arrangements to reconcile, without delay, damage, or cost to the Owner and without recourse to the Architect, Owner's representative or the Owner, any conflict between the Contract Documents and any agreements or regulations of any kind at any time in force among members of councils which regulate or distinguish what activities shall not be included in the Work of any particular trade. In case the progress of the Work is affected by any undue delay in furnishing or installing any items or materials or equipment required under the Contract Documents because of the conflict involving any such agreement or regulations, the Architect or Owner's representative with the Owner's approval may require that other materials or equipment of equal kind and quality be provided at no additional cost to the Owner.

**§ 9.3.6** The Contractor shall carefully inspect all materials delivered on and to the Project site and reject defective materials without waiting for the Architect or Owner to observe the materials.

**§ 9.3.7** The Contractor shall deliver, handle, store and install materials in accordance with manufacturers' or suppliers' instructions.

**§ 9.3.8** Before ordering any material or doing any Work, the Contractor shall verify all measurements at the Project Site and Contractor 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 by the Project Drawings.

**§ 9.3.9** If any person employed by the Contractor on the Work shall appear to the Owner to be incompetent or conduct himself in a disorderly or improper manner, such person or persons shall be removed from the Work immediately on the request of the Owner. Said removal shall not create any additional cost to Owner and shall not extend the time for completion of the Work.

### **§ 9.4 Warranty**

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from faults and defects. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work of persons other than Contractor or subcontractor, improper or insufficient maintenance, improper operation or normal wear and tear under normal usage. All other warranties required by the Contract Documents shall be issued in the name of the Owner, or

shall be transferable to the Owner. Inability, failure or refusal of the Subcontractor or supplier responsible for the defective materials, equipment or Work to correct the same shall not excuse the Contractor from performing under the warranty. If required by the Architect or the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials being furnished.

All warranties shall include labor and materials and shall be signed by the manufacturer or subcontractor as the case may be and countersigned by the Contractor. All warranties shall be addressed to the Owner and delivered to the Owner upon completion of the Work and before or with the submission of request for final payment. Except as otherwise provided in this Agreement or elsewhere in the Contract Documents, or in any Certificate of Substantial or Partial Completion approved by the Owner and Contractor and/or subcontractor, as applicable, all warranties shall become effective on the date of Substantial Completion of the entire Work unless otherwise provided in any Certificate of Partial or Substantial Completion approved by the Owner and the Contractor or Subcontractor, as applicable, but only with respect to warranties for that specific portion of the Work, and shall run for a twenty-four (24) month period, unless a longer period is provided for in the Contract Documents or by law. Where warranties overlap, the more stringent requirement shall govern. The Contractor shall consult with the Owner prior to the submission of any application to the appropriate permitting agency or authority in order to afford Owner the opportunity to obtain a waiver or reduction of any fees or costs associated therewith.

Defective materials, equipment or workmanship occurring within the Warranty period may be repaired where such produces results conforming to the Contract Documents relating to appearance, performance and reliability. Where the nature of the defective materials, equipment or workmanship is such that acceptable results cannot be obtained by repair, such defective items shall be removed and replaced with new materials, equipment or workmanship complying with the Contract Documents.

#### **§ 9.5 Taxes**

The Contractor shall pay sales, consumer, use, and other similar taxes that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect. Because the Owner is an Illinois unit of local government, the Illinois sales tax is not applicable to materials, equipment and supplies incorporated in the Work or wholly consumed in the performance of the Work. The Owner will provide its sales tax exemption number for use by Contractor in purchasing such materials, equipment and supplies for this Project.

#### **§ 9.6 Permits, Fees, Notices, and Compliance with Laws**

**§ 9.6.1** Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

**§ 9.6.2** The Contractor shall comply with and give notices and permit inspections required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work or having jurisdiction over the Work. The Contractor shall promptly notify the Architect and Owner if any of the Contract Documents appear to be a variance therewith. If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, or had it carried out its obligations under the Contract Documents generally, and Section 9.1.1 of this Agreement in particular, should reasonably have known it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

#### **§ 9.7 Allowances**

The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. The Owner shall select materials and equipment under allowances with reasonable promptness. Allowance amounts shall include the costs to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts. Contractor's costs for unloading and handling at the site, labor, installation, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowance.

#### **§ 9.8 Contractor's Construction Schedules**

**§ 9.8.1** The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current

under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

**§ 9.8.2** The Contractor shall perform the Work in general accordance with the most recent schedule submitted to the Owner and Architect.

### **§ 9.9 Submittals**

**§ 9.9.1** The Contractor shall review for compliance with the Contract Documents and submit to the Architect Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents in coordination with the Contractor's construction schedule and in such sequence as to allow the Architect reasonable time for review. By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them; (2) determined and verified materials, field measurements, and field construction criteria related thereto, or will do so; and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. The Work shall be in accordance with approved submittals.

**§ 9.9.2** Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents.

**§ 9.9.3** The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents or unless the Contractor needs to provide such services in order to carry out the Contractor's own responsibilities. If professional design services or certifications by a design professional are specifically required, the Owner and the Architect will specify the performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional. If no criteria are specified, the design shall comply with applicable codes and ordinances. Each Party shall be entitled to rely upon the information provided by the other Party. The Architect will review and approve or take other appropriate action on submittals for the limited purpose of checking for conformance with information provided and the design concept expressed in the Contract Documents. The Architect's review of Shop Drawings, Product Data, Samples, and similar submittals shall be for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. In performing such review, the Architect will approve, or take other appropriate action upon, the Contractor's Shop Drawings, Product Data, Samples, and similar submittals.

### **§ 9.10 Use of Site**

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, the Contract Documents and as otherwise directed by Owner and shall not unreasonably encumber the site with materials or equipment.

#### **§ 9.10.1 Parking & Traffic.**

.1 Parking of construction vehicles on the site by the Contractor shall not inhibit construction nor prevent access for emergency or other official vehicles. Parking of private vehicles on the site by the Contractor is prohibited unless said vehicle is necessary in the execution of the Contract. No construction vehicles shall be parked near or under any existing vegetation on the site.

.2 Construction traffic and staging shall be permitted only within construction limits as indicated on plan. Contractor is responsible for repair of any areas disturbed outside of this area, including grading and sodding. No staging will be permitted on existing asphalt without Owner's prior written consent. The cost to repair any damage to existing asphalt will be back-charged to the Contractor.

**§ 9.10.2 Fencing.** Contractor will be responsible for erecting and maintaining construction fencing around the limits of the Project site at all times of construction in accordance with applicable law and the Contract Documents. Failure to erect or maintain this fencing will result in the correction of the problem by the Owner at the expense of the Contractor, and may include, but are not limited to, the cost of any materials and staff time. This fence must be installed and fully erected before construction operations beginning and tied-up at the end of each working day.

**§ 9.10.3 Water Removal.** If, during construction, standing water caused by heavy rains or poor drainage becomes a hazard in the proper execution of the Contract, it shall be the responsibility of the Contractor to provide and make payment for removal of said water to existing drainage swales, storm sewers or other natural or man-made drainage ways.

**§ 9.11 Cutting and Patching**

The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly.

**§ 9.12 Cleaning Up**

The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove, and properly and lawfully dispose of as applicable, waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus material from and about the Project. The Contractor shall clean up and keep all streets, sidewalks and other public ways used for access to the Project site free from accumulation of spillage of fill or soils or other materials caused by operations under the Contract. The Contractor shall strictly comply with all laws and regulations pertaining to same be solely responsible for, and shall pay any fines or penalties assessed as the result of, any violation.

**§ 9.13 Access to Work**

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

**§ 9.14 Royalties, Patents and Copyrights**

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

**§ 9.15 Indemnification**

**§ 9.15.1** To the fullest extent permitted by law, the Contractor waives any rights of contribution against, and shall indemnify and hold harmless the Owner and its officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses including but not limited to legal fees (attorney's and paralegals' 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 (i) 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 there from and (ii) is caused in whole or in 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, regardless of whether or not 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.

"Claims," "damages," "losses" and "expenses" as these words are used in this Agreement shall be construed to include, but not limited to (1) injury or damage consequent upon the failure of or use or misuse by Contractor, its subcontractors, agents, servants or employees, of any hoist, rigging, blocking, scaffolding, or any and all other kinds of items of equipment or other mechanical or structural contrivance erected or constructed by any person, or any or all other kinds of equipment whether or not the same be owned, furnished or loaned by Owner; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity or any other indemnity contained herein; (3) all costs and expenses incurred by the indemnified party; and (4) error or omission or defect in any submission made to Architect / Architect for its approval or review.

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**§ 9.15.2** In claims against any person or entity indemnified under this Section 9.15 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 9.15.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

## **ARTICLE 10 ARCHITECT**

**§ 10.1** The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction, until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified in writing in accordance with other provisions of the Contract.

**§ 10.2** Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner and Architect. Consent shall not be unreasonably withheld.

**§ 10.3** The Architect will visit the site at intervals appropriate to the stage of the construction to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

**§ 10.4** On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

**§ 10.5** Based on the Architect's evaluations of the quality and progress of the Work and of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

**§ 10.6** The Architect has authority to reject Work that does not conform to the Contract Documents and to require inspection or testing of the Work.

**§ 10.7** The Architect will review and approve or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

**§ 10.8** The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect will make initial decisions on all claims, disputes, and other matters in question between the Owner and Contractor but will not be liable for results of any interpretations or decisions rendered in good faith.

**§ 10.9** The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

## **ARTICLE 11 SUBCONTRACTORS**

**§ 11.1** A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site.

§ 11.2 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect in writing of the name, trade and subcontract amount of each Subcontractor and supplier proposed for each of the principal portions of the Work. The Contractor shall not contract with any Subcontractor or supplier to whom the Owner or Architect has made reasonable written objection within ten days after receipt of the Contractor's written list of Subcontractors and suppliers. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 11.3 Contracts between the Contractor and Subcontractors shall (1) require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by the terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by the Contract Documents, assumes toward the Owner and Architect, and (2) allow the Subcontractor the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Contract Documents, has against the Owner.

§ 11.4 All subcontracts shall be in writing and shall specifically provide that the Owner is an intended third-party beneficiary of such subcontract and that the Owner shall have the right to enforce the Subcontractor's obligations thereunder after the occurrence of a default under the Contract by the contractor. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar written agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their representatives proposed Sub-subcontractors.

§ 11.5 All subcontract agreements shall conform to the requirements of the Contract Documents and the Contractor hereby irrevocably assigns to the Owner and Owner's permitted assigns all its interest in any subcontract agreements and purchase orders now existing or hereinafter entered into the contractor for performance of any part of the Work, which assignment will be effective in the event of the Contractor's failure to perform the Work in accordance with the Contract Documents and upon acceptance by the Owner in writing and only as to those subcontract agreements and purchase orders that Owner designates in said writing. It is agreed and understood that the Owner may accept said assignment at any time during the course of construction prior to Final Completion. The Contractor shall promptly submit to the Owner a true and complete copy of each subcontract upon execution of same. Each subcontract shall contain a contingent assignment of the subcontract to the Owner, consistent with this Subparagraph. Upon acceptance by the Owner of a subcontract; (1) the Contractor shall promptly furnish to the Owner true and complete copies of the designated subcontract agreements and purchase orders, both as may have been amended by approved change order together with copies of any and all such amendments, and (2) the Owner shall only be required to compensate the designated Subcontractor(s) or supplier(s) for compensation accruing to such party(ies) for Work done or materials delivered from and after the date on which the Owner accepts the subcontract agreement(s) or purchase order(s). All sums due and owing by the Contractor to the designated Subcontractor(s) or supplier(s) for work performed or material supplied prior to the Owner's acceptance of the subcontract agreement(s) or purchase order(s) shall constitute a debt between such parties and the Contractor. It is further agreed that no subcontract agreement or purchase order shall contain any restriction that would prohibit assignment under the terms and conditions stated hereinabove. It is further agreed and understood that such assignment is part of the consideration to Owner for entering into the Contract with the Contractor and may not be withdrawn prior to Final Completion.

## ARTICLE 12 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 12.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to

those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 12.2 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's activities with theirs as required by the Contract Documents.

§ 12.3 The Owner shall be reimbursed by the Contractor for costs incurred by the Owner which are payable to a Separate Contractor because of delays, improperly timed activities, or defective construction of the Contractor. The Owner shall be responsible to the Contractor for costs incurred by the Contractor because of delays, improperly timed activities, damage to the Work, or defective construction of a Separate Contractor.

#### ARTICLE 13 CHANGES IN THE WORK

§ 13.1 By appropriate Modification, changes in the Work may be accomplished after execution of the Contract. The Owner, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, with the Contract Sum and Contract Time being adjusted accordingly. Such changes in the Work shall be authorized by written Change Order signed by the Owner, Contractor, and Architect, or by written Construction Change Directive signed by the Owner and Architect. Upon issuance of the Change Order or Construction Change Directive, the Contractor shall proceed promptly with such changes in the Work, unless otherwise provided in the Change Order or Construction Change Directive.

§ 13.2 Adjustments in the Contract Sum and Contract Time resulting from a change in the Work shall be determined by mutual agreement of the parties or, in the case of a Construction Change Directive signed only by the Owner and Architect, by the Contractor's cost of labor, material, equipment, and reasonable overhead and profit, unless the parties agree on another method for determining the cost or credit. Pending final determination of the total cost of a Construction Change Directive, the Contractor may request payment for Work completed pursuant to the Construction Change Directive. The Architect will make an interim determination of the amount of payment due for purposes of certifying the Contractor's monthly Application for Payment. When the Owner and Contractor agree on adjustments to the Contract Sum and Contract Time arising from a Construction Change Directive, the Architect will prepare a Change Order.

§ 13.3 The Architect will have authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work.

§ 13.4 If concealed or unknown physical conditions are encountered at the site that differ materially from those indicated in the Contract Documents or from those conditions ordinarily found to exist, and the Contractor could not have discovered same in the exercise of reasonable diligence as required under Subsection 9.1.1 of this Agreement, the Contract Sum and Contract Time shall be equitably adjusted as mutually agreed between the Owner and Contractor; provided that the Contractor provides notice to the Owner and Architect promptly and before conditions are disturbed.

§ 13.5 Agreement on any Change Order shall constitute a final settlement, and accord and satisfaction between the Owner and Contractor, of all matters relating to the change in the Work which is the subject of the Change Order, including, but not limited to, all direct and indirect costs associated with such change and any and all adjustments to the Contract Sum, Contract Time and Construction Schedule. In the event a Change Order increases the Contract Sum, the Contractor shall include the Work covered by such Change Order in Applications for Payment as if such Work were originally part of the Contract Documents.

§ 13.6 No change in the Work, whether by way of alteration or addition to the Work, shall be the bases of an addition to the Contract Sum or change in the Contract Time unless and until such alteration or addition has been authorized by a Change Order executed and issued in accordance with and in strict compliance with the requirements of the Contract Documents and applicable law. Accordingly, no course of conduct or dealing between the parties, nor any express or implied acceptance of alterations or additions to the Work and no claim that the Owner has been unjustly enriched shall be the basis of any claim to an increase in the Contract Sum or change in the Contract Time.

## ARTICLE 14 TIME

§ 14.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing this Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 14.2 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion and for Final Completion of the Work.

§ 14.3 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 14.4 The date of Substantial Completion and Final Completion are the dates certified by the Architect in accordance with Section 15.6.3.

§ 14.5 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) changes ordered in the Work; (2) by labor disputes, fire, unusual delay in deliveries, abnormal adverse weather conditions not reasonably anticipatable, unavoidable casualties, or any causes beyond the Contractor's control; or (3) by other causes that the Contractor asserts, and the Architect determines and Owner agrees, justify delay, then, as the Contractor's sole remedy, the Contract Time shall be extended for such reasonable time as the Architect may determine. Notwithstanding the foregoing, delays of the Contractor to carry out its obligations under or in accordance with the provisions of the Contract, shall not extend the Contract Time.

§ 14.6 The Contractor shall carry the Work forward regularly, diligently, uninterruptedly and expeditiously and in a good workmanlike and professional manner at such a rate of progress and with an adequate work force as will insure the completion of the Work in accordance with the Contract Documents by the date established in the Contract. It is expressly understood and agreed by and between Contractor and Owner that the time for completion of the Work is a reasonable time, taking into consideration the average climatic range, usual industrial conditions, and all other conditions and factors prevailing in this locality.

## ARTICLE 15 PAYMENTS AND COMPLETION

### § 15.1 Schedule of Values

§ 15.1.1 Where the Contract is based on a Stipulated Sum or the Cost of the Work with a Guaranteed Maximum Price pursuant to Section 3.2 or 3.4, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Stipulated Sum or Guaranteed Maximum Price to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy required by the Architect. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 15.1.2 The allocation of the Stipulated Sum or Guaranteed Maximum Price under this Section 15.1 shall not constitute a separate stipulated sum or guaranteed maximum price for each individual line item in the schedule of values.

### § 15.2 Control Estimate

§ 15.2.1 Where the Contract Sum is the Cost of the Work, plus the Contractor's Fee without a Guaranteed Maximum Price pursuant to Section 3.3, the Contractor shall prepare and submit to the Owner a Control Estimate within 14 days of executing this Agreement. The Control Estimate shall include the estimated Cost of the Work plus the Contractor's Fee.

§ 15.2.2 The Control Estimate shall include:

- .1 the documents enumerated in Article 6, including all Modifications thereto;
- .2 a list of the assumptions made by the Contractor in the preparation of the Control Estimate to supplement the information provided by the Owner and contained in the Contract Documents;
- .3 a statement of the estimated Cost of the Work organized by trade categories or systems and the Contractor's Fee;
- .4 a project schedule upon which the Control Estimate is based, indicating proposed Subcontractors, activity sequences and durations, milestone dates for receipt and approval of pertinent information,

- schedule of shop drawings and samples, procurement and delivery of materials or equipment the Owner's occupancy requirements, and the date of Substantial Completion; and
- .5 a list of any contingency amounts included in the Control Estimate for further development of design and construction.

§ 15.2.3 When the Control Estimate is acceptable to the Owner and Architect, the Owner shall acknowledge it in writing. The Owner's acceptance of the Control Estimate does not imply that the Control Estimate constitutes a Guaranteed Maximum Price.

§ 15.2.4 The Contractor shall develop and implement a detailed system of cost control that will provide the Owner and Architect with timely information as to the anticipated total Cost of the Work. The cost control system shall compare the Control Estimate with the actual cost for activities in progress and estimates for uncompleted tasks and proposed changes. This information shall be reported to the Owner, in writing, no later than the Contractor's first Application for Payment and shall be revised and submitted with each Application for Payment.

§ 15.2.5 The Owner shall authorize preparation of revisions to the Contract Documents that incorporate the agreed-upon assumptions contained in the Control Estimate. The Owner shall promptly furnish such revised Contract Documents to the Contractor. The Contractor shall notify the Owner and Architect of any inconsistencies between the Control Estimate and the revised Contract Documents.

### § 15.3 Applications for Payment

§ 15.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 15.1, for completed portions of the Work. The application shall be notarized, if required; be supported by all data substantiating the Contractor's right to payment that the Owner or Architect require; shall reflect retainage if provided for in the Contract Documents; and include any revised cost control information required by Section 15.2.4. Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 15.3.2 With each Application for Payment where the Contract Sum is based upon the Cost of the Work, or the Cost of the Work with a Guaranteed Maximum Price, the Contractor shall submit payrolls, petty cash accounts, receipted invoices or invoices with check vouchers attached, and any other evidence required by the Owner to demonstrate that cash disbursements already made by the Contractor on account of the Cost of the Work equal or exceed progress payments already received by the Contractor plus payrolls for the period covered by the present Application for Payment, less that portion of the progress payments attributable to the Contractor's Fee.

§ 15.3.3 Unless approved in advance by the Owner in writing, payments shall be made on account of materials and equipment incorporated in the Work. If approved in advance by the Owner payment shall be made on account of materials and equipment delivered and suitably stored and protected from damage and loss at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment delivered and suitably stored, and protected from damage and loss, off the site at a location agreed upon in writing. The Owner may condition such approvals on such terms as the Owner in its discretion deems necessary for its protection.

§ 15.3.4 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or other encumbrances adverse to the Owner's interests.

§ 15.3.5 Failure to supply waivers of lien or acceptable evidence of payment of all current accounts incurred by this Contract work will be considered grounds for withholding final payment.

§ 15.3.6 The first payment application shall be accompanied by the Contractor's Partial Waiver of Lien only, for the full amount of the payment. Each subsequent monthly payment application shall be accompanied by the Contractor Partial Waiver, and by the Partial lien Waivers of Subcontractor and Suppliers who were included in the immediately

preceding payment application to the extent of that payment. Application for Final Payment shall be accompanied by Final Waivers of Lien from the Contractor, Subcontractors and Suppliers who have not previously furnished such Final Waivers. Final Waivers shall be for the full amount of the Contract. All applications for payment shall be accompanied by affidavits, in triplicate, from the Contractor and Subcontractors containing such information and in such form as to comply with the Illinois Mechanics Lien Act (770 ILCS 60/0.01 *et seq.*) and showing in detail the sources of all labor and materials used and contracted to be used on the Project, including names and addresses of subcontractors and material suppliers; amounts paid and remaining to be paid to each; together with all documents as shall be necessary, in the sole judgment of the Architect and Owner, to waive all claims of liens to date and comply with all applicable state and local laws.

- (i) All waivers (partial and final) shall include language as applicable indicating either that:
  - a. all material were taken from fully paid stock and delivered to job site in our own vehicles and all labor has been fully paid in accordance with prevailing wage laws; or
  - b. materials were provided by the following suppliers for whom waivers of lien are attached and all labor has been fully paid in accordance with prevailing wage laws.

#### § 15.4 Certificates for Payment

§ 15.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner of the Architect's reasons for withholding certification in whole or in part as provided in Section 15.4.3.

§ 15.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, but not to Contractor, based on the Architect's evaluations of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation to the Owner but not to the Contractor that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 15.4.3 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 15.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 15.4.1. If the Contractor and the Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 9.2.2, because of

- .1 defective Work not remedied;
- .2 third-party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a Separate Contractor;

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- .6 reasonable evidence that the Work will not be completed within the Contract Time and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 failure to carry out the Work in accordance with the Contract Documents.

§ 15.4.4 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld. No interest will be paid on amounts withheld.

#### § 15.5 Progress Payments

§ 15.5.1 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to sub-subcontractors in a similar manner. This provision is not to be construed as a "conditional payment" or "pay when paid" clause. In the event that payment to the Contractor is delayed without fault of the Subcontractor, payment to the Subcontractor shall be made within a reasonable time after work is properly performed by a Subcontractor irrespective of any delay in payment to the Contractor.

§ 15.5.2 Neither the Owner nor Architect shall have an obligation to pay or see to the payment of money to a Subcontractor or supplier except as may otherwise be required by law.

§ 15.5.3 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 15.5.4 Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 15.5.5 Anything to the contrary contained or implied herein notwithstanding, no progress payment need be made by Owner until such time as Contractor, Subcontractors or any other persons performing the Work or furnishing materials or equipment for the Project furnishes such documents as Owner may reasonably require (including without limitation sworn notarized contractor's statement, affidavits and waivers of lien).

#### § 15.6 Substantial Completion

§ 15.6.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is completed in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use and has been accepted by Owner to receive all required occupancy permits.

"Punch List" mean and shall be limited to uncompleted items of Work (a) that do not interfere with the use and occupancy of any area of the Site for its intended purpose and (b) that, as a group, are capable of being completed by the Contractor within thirty (30) days of issuance of any Punch List. The "Punch List" is the list containing the Punch List Items.

§ 15.6.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 15.6.3 Upon receipt of the Contractor's list, the Architect and Owner will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's or Owner's inspection discloses an item, whether or not included in the Contractor's list, which is not in accordance with the Contract Documents and is necessary for Owner's occupancy or utilization of the Work, the Contractor shall before issuance of a Certificate of Substantial Completion, complete such items upon notification from the Architect and Owner. The cost of this and any additional inspections required to establish Substantial Completion due to the failure of the Contractor to properly complete all items of the Work necessary for the Owner's use or occupancy of the Work shall be charged to the Contractor. When the Architect determines that the Work or designated portion thereof is substantially complete, the

Architect will issue a Certificate of Substantial Completion to the Owner for review and concurrence by the Owner which shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the Punch List accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Final Completion of the Work or designated portion thereof with the exception of the items of Work contained in the Punch List accompanying the Certificate of Substantial Completion. With respect to Work enumerated on the Punch List, the guarantee or warranty period shall commence upon Contractor's completion and Owner's approval of the Punch List items.

§ 15.6.4 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate.

#### § 15.7 Final Completion and Final Payment

§ 15.7.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, and the Architect has advised Owner of that finding and Owner has not advised Architect of any objection to such finding, the Architect will promptly issue a final Certificate for Payment to the Owner but not the Contractor stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions stated in Section 15.7.2 as precedent to the Contractor's being entitled to final payment have been fulfilled. The Owner's failure to object to, and the Owner's acceptance of, the Architect's findings and/or certifications hereunder shall not constitute Owner's acceptance of Work not complying with the Contract Documents, or Owner's waiver of any claims or remedies it may have with respect to any such defective or delayed Work.

§ 15.7.2 Final payment shall not become due until the Contractor has fully performed the contract, including but not limited to, delivery of all manufacturer's and supplier's warranties, operating manuals, as-build drawings, and consent of the surety to final payment, pursuant to the Contract Documents, and has delivered to the Owner a complete release of all liens arising out of this Contract or receipts in full covering all labor, materials and equipment for which a lien could be filed, or a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including costs and reasonable attorneys' fees.

§ 15.7.3 The making of final payment shall constitute a waiver of claims by the Owner except those arising from

- .1 liens, claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents;
- .3 terms of special warranties required by the Contract Documents; or
- .4 audits performed by the Owner, if permitted by the Contract Documents, after final payment.

The final payment by Owner shall not relieve the Contractor of the responsibility for the correction of any and all defects in the work performed. Contractor shall correct all defects as notified for the applicable warranty period after final payment.

§ 15.7.4 Acceptance of final payment by the Contractor, a Subcontractor or supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of the final Application for Payment.

### ARTICLE 16 PROTECTION OF PERSONS AND PROPERTY

#### § 16.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and

- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation, or replacement in the course of construction.

The Contractor shall comply with, and give notices required by, applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons and property and their protection from damage, injury, or loss. The Contractor shall promptly remedy damage and loss to property caused in whole or in part by the Contractor, a Subcontractor, a sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 16.1.2 and 16.1.3. The Contractor may make a claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 9.15.

### § 16.2 Hazardous Materials and Substances

§ 16.2.1 The Contractor is responsible for compliance with the requirements of the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents, and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 16.2.2 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area, if in fact, the material or substance presents the risk of bodily injury or death as described in Section 16.2.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 16.2.3 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

## ARTICLE 17 INSURANCE AND BONDS

### § 17.1 Contractor's Insurance

§ 17.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in this Section 17.1 and in the Contract Documents. The Contractor shall purchase and maintain the insurance required by this Agreement from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. Contractor shall procure insurance from insurance companies that have obtained A.M. Best ratings 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. Failure to maintain the required insurance may result in termination of the Contract at Owner's option. 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.

The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 18.4, unless a different duration is stated below:

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella liability insurance with a limit of not less than \$2,000,000 each occurrence for at least three years following Substantial

Completion of the Work.

§ 17.1.2 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than Two Million Dollars (\$ 2,000,000 ) each occurrence, Two Million Dollars (\$ 2,000,000 ) general aggregate, which shall apply separately to this project, and Two Million Dollars (\$ 2,000,000 ) each occurrence for products-completed operations hazard for at least three years following Completion of the Work, providing coverage for claims including

- .1 damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
- .2 personal and advertising injury;
- .3 damages because of physical damage to or destruction of tangible property, including the loss of use of such property;
- .4 bodily injury or property damage arising out of completed operations; and
- .5 the Contractor's indemnity obligations under Section 9.15.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 04 93, or a substitute form providing equivalent coverage, and shall also cover liability arising from premises, operations, independent contractors, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract)

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.

**For Contractor's Continuing Completed Operations Liability Insurance:**

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 4 13, 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.

§ 17.1.3 Automobile Liability covering vehicles owned by the Contractor, hired, and non-owned vehicles used by the Contractor, with policy limits of not less than One Million Dollars (\$ 1,000,000 ) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance, and use of those motor vehicles along with any other statutorily required automobile coverage. Business auto insurance shall be written 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.

§ 17.1.4 The Contractor may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella insurance policies result in the same or greater coverage as those required under Section 17.1.2 and 17.1.3, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

**§ 17.1.5 Workers' Compensation**

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 of \$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.

§ 17.1.6 Employers' Liability with policy limits not less than One Million Dollars (\$ 1,000,000 ) each accident, One Million Dollars (\$ 1,000,000 ) each employee, and One Million Dollars (\$ 1,000,000 ) policy limit.

§ 17.1.7 Intentionally deleted.

§ 17.1.8 Intentionally deleted.

§ 17.1.9 Intentionally deleted.

§ 17.1.10 The Contractor shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Section 17.1 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and (3) within 10 days' upon the Owner's written request. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the period required by Section 17.1.1 or upon Owner's written request for the same. The certificates will show the Owner, its elected and appointed officials, employees, volunteers and agents as an additional insured on the Contractor's Commercial General Liability and excess or umbrella liability policy. 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.

§ 17.1.11 The Contractor shall disclose to the Owner any deductible or self-insured retentions applicable to any insurance required to be provided by the Contractor. 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.

§ 17.1.12 To the fullest extent permitted by law, the Contractor shall cause the commercial liability coverage required by this Section 17.1 to include (1) the Owner, its elected and appointed officials, employees, volunteers and agents for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory to any of the Owner's general liability insurance policies and shall apply to both ongoing and completed operations. The additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, or a substitute providing equivalent coverage, and under the commercial umbrella, if any. ..

If Contractor's liability policies do not contain the standard ISO separation of insured's' provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.

§ 17.1.13 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. Upon receipt of notice from the Contractor, the Owner shall have the right to either stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor or terminate the contract, at Owner's option. In the event Owner does not terminate, the furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

**§ 17.1.14 Other Insurance Provided by the Contractor**

*(List below any other insurance coverage to be provided by the Contractor and any applicable limits.)*

**Coverage**

**Limits**

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.

## § 17.2 Owner's Insurance

### § 17.2.1

*(Paragraphs deleted)*

Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance in the amount of the initial Contract Sum as well as subsequent modifications thereto for the entire Work at the site on a replacement cost basis without voluntary deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Article 15.7 or until no person or entity other than the Owner has an insurable interest in the property required by this Paragraph 17.2.1 to be covered, whichever is earlier. This insurance shall include the respective interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Work.

**§ 17.2.2** Property insurance shall be on a course of construction policy form and shall insure against the perils of fire and extended coverage and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, false work, windstorm, testing and start-up, temporary buildings and debris removal, including demolition, and shall cover reasonable compensation for the Architect's, any of the Owner's Consultant's services and expenses required as a result of such insured loss. Coverage for other perils shall not be required unless otherwise provided in the Contract Documents. Property insurance provided by the Owner shall not cover Contractor's, Subcontractor's or Sub-subcontractor's liability or any tools, apparatus, machinery, scaffolding, hoists, forms, staging, shoring or other similar items commonly referred to as construction equipment, which may be on the site and the capital value of which is not included in the Work. The Contractor shall make his own arrangements for any insurance he may require on such construction equipment.

*(Paragraphs deleted)*

**§ 17.2.3** The Contractor shall effect insurance which will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work.

**§ 17.2.4** If the property insurance requires minimum deductibles and such deductibles are identified in the Contract Documents, the Contractor shall pay costs not covered because of deductibles. If the Owner or insurer increases the required minimum deductibles above the amounts so identified or if the Owner elects to purchase this insurance with voluntary deductible amounts, the Owner shall be responsible for payment of the additional costs not covered because of such increased or voluntary deductibles. If deductibles are not identified in the Contract Documents, the Owner shall pay costs not covered because of deductibles.

**§ 17.2.5** Unless otherwise provided in the Contract Documents, this property insurance shall cover portions of the Work stored off the site and paid for by Owner after written approval of the Owner at the value established in the approval, and also portions of the Work in transit and paid for by Owner.

**§ 17.2.6** Partial occupancy or use shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

**§ 17.2.7** The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor Subcontractors and Sub-subcontractors in the Work, and the Owner and the Contractor shall be named insureds.

**§ 17.2.8** If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

§ 17.2.9 Notwithstanding any provision contained in Article 17, the Owner's obligation to purchase insurance shall herein be deemed satisfied by the Owner's membership in a self-insured risk management agency or pool. The Contractor agrees that any obligation the Owner has to purchase property insurance shall be satisfied by the Owner's membership in a self-insured risk management agency or pool. The Contractor further agrees that it will only have rights allowable to it under any coverage provided through the Owner's membership in a self-insured risk management agency or pool.

**Omitted.**

*(Table deleted)*

**§ 17.3 Performance Bond and Payment Bond**

§ 17.3.1 The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in the Contract Documents on the date of execution of the Contract.

§ 17.3.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 17.3.3 If required by the Owner the Contractor, before commencing the Work, shall furnish a Performance Bond and a Labor and Material Payment Bond. The Performance Bond shall be in an amount equal to 110% of the full amount of the Contract Sum as security for the faithful performance of the obligations of the Contract Documents, including the payment of prevailing wages in accordance with Article 23 of this Agreement, and the Labor and Material Payment Bond shall be in an amount equal to 110% of the full amount of the Contract Sum as security for required payments to all persons performing labor and furnishing materials in connection with the Work. Such bonds shall be on AIA Document A-312, or the most current edition, issued by the American Institute of Architects, shall be issued by a surety satisfactory to the Owner, and shall name the Owner as primary co-obligee. Such bonds shall be from an Illinois Admitted Bonding Company acceptable to the Owner and having a minimum policy holder rating of "B+" in the latest edition of Best's Insurance Guide in effect as of the date of the Contract. Bonds shall remain in full force and effect for at least one year following the date of Final Completion of the Work or for the entire duration of the longest warranty period provided for the Work, whichever is longer. The cost of the bonds is to be included in the Contract Sum stated by the Contractor in its Bid Proposal.

§17.3.4 The Contractor shall (i) furnish with all bonds a certified copy of the power of attorney from the Surety Company stating that the person executing said bond is duly authorized by the Surety Company to execute said bond; (ii) furnish a certified copy of the certificate from said Surety Company's state showing said Surety Company licensed and authorized to transact business and execute said bond in Illinois; and (iii) if requested by Owner, furnish a copy of current financial statements of said Surety Company.

§17.3.5 In addition to the required performance and labor and material payment bonds, Contractor shall furnish a maintenance bond and/or irrevocable letter of credit in the amount of the Contract to guarantee the Work performed under the Contract against defective workmanship and/or defective materials of any nature for a period of not less than twenty-four (24) months from the date of acceptance of the Work, materials or equipment provided. The maintenance bond shall be in a form acceptable to District.

**ARTICLE 18 CORRECTION OF WORK**

§ 18.1 The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed, or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense. If prior to the date of Final Completion the Contractor, a Subcontractor, or anyone for who either of them is responsible, uses or damages any portion of the Work, including but not limited to mechanical, electrical, plumbing or other building system, machinery, equipment or other mechanical device, the Contractor shall cause such item to be replaced or if permitted by the Owner restored to "like new" condition, at no expense to the Owner.

§ 18.2 In addition to the Contractor's obligations under Section 9.4, if, within one year after the date of Final Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 15.6.3, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it

promptly after receipt of notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. The obligation under this Section 18.2 shall survive acceptance of the Work under the Contract and termination of the Contract. Corrective Work shall be warranted to be free from defects for a period equal to the longer of twelve (12) months after the completion of the corrective Work or one (1) year from the date of Final Completion of the Work, or such longer period of time as may be prescribed by law or in equity or by the terms of any applicable special warranty. Notwithstanding the foregoing, Contractor shall correct Work deficiently or defectively performed and replace defective or non-conforming materials and equipment, even though such deficiency, defect or non-conformity may be discovered more than one (1) year after Final Completion, if the correction is of a latent defect and arises from poor workmanship or improper materials or equipment, or is required to be made to Work, materials or equipment covered by the Contractor or a Subcontractor contrary to the Architect's or Owner's request or to the request of a governmental officer, or to the requirements of the Contract Documents or Governmental Requirements, and was therefore not visible for inspection by the Architect, Owner or governmental officer, as applicable, at the time of inspection. Contractor shall, within a reasonable time under the circumstances, after receipt of written notice thereof, correct, repair, replace and otherwise make good any defects or non-conformity in the Work.

**§ 18.3** If the Contractor fails to correct nonconforming Work within a reasonable time, the Owner may correct it in accordance with Section 8.3.

**§ 18.4** The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

**§ 18.5** The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

**§ 18.6** The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of the Work that is not in accordance with the requirements of the Contract Documents

## **ARTICLE 19 MISCELLANEOUS PROVISIONS**

### **§ 19.1 Assignment of Contract**

Neither party to the Contract shall assign the Contract without written consent of the other, except that the Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

### **§ 19.2 Governing Law**

The Contract shall be governed by the law of the place where the Project is located.

### **§ 19.3 Tests and Inspections**

Tests, inspections, and approvals of portions of the Work required by the Contract Documents or by applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities shall be made at an appropriate time. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating the costs to the Contractor, unless such tests, inspection or approvals were necessitated by the Contractor's failure to perform the Work in accordance with the Contract Documents in which event the Contractor shall bear the costs. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating the costs to the Contractor, unless such tests, inspection or approvals

were necessitated by the Contractor's failure to perform the Work in accordance with the Contract Documents in which event the Contractor shall bear the costs.

**§ 19.4 The Owner's representative:**

*(Name, address, email address and other information)*

Dave Thommes  
Oak Brook Park District  
1450 Forest Gate Road  
Oak Brook, IL 60523  
T: 630-645-9534  
Email: dthommes@obparks.org

**§ 19.5 The Contractor's representative:**

*(Name, address, email address and other information)*

**§ 19.6** Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

**ARTICLE 20 TERMINATION OF THE CONTRACT**

**§ 20.1 Termination by the Contractor**

If the Architect fails to certify payment as provided in Section 15.4.1 for a period of 30 days through no fault of the Contractor or for any undisputed payment and has not notified Contractor for the reason for withholding payment, or if the Owner fails to make payment as provided in Section 4.1.3 for a period of 30 days through no fault of the Contractor or for any undisputed payment and has not notified Contractor for the reason for withholding payment, and such failure continues for a period of 90 days after notice from the Contractor, the Contractor may, as its sole remedy, upon seven additional days' notice to the Owner and the Architect, unless this reason is cured prior to the expiration of the notice period, and recover from Owner payment of Work properly executed in accordance with the Contract Documents (the basis for such payment shall be as provided in the Contract) provided said Work was authorized in advance by Owner. The Owner shall have the right to cure any defect or default prior to the date of termination stated in any written notice from Contractor as provided herein, in which event Contractor shall continue with the Work. If the Contractor terminates the Work and receives payment in connection with his equipment, tools or materials such items shall be left and remain on the Site if the Owner so elects. Owner shall not be responsible for damages for loss of anticipated profits on Work not performed.

**§ 20.2 Termination by the Owner for Cause**

**§ 20.2.1** The Owner may terminate the Contract if the Contractor

*(Paragraph deleted)*

If the Contractor shall institute proceedings or consent to proceeding requesting relief or arrangement under the Federal Bankruptcy Act or any applicable Federal or State Law, or if a petition under any federal or state insolvency law is filed against the Contractor and such petition is not dismissed within sixty (60) days from the date of the filing, or if the Contractor admits in writing his inability to pay his debts generally as they become due, or if he makes a general assignment for the benefit of his creditors, or if a receiver, liquidator, trustee, or assignee is appointed on account of his bankruptcy or insolvency; or if a receiver of all or any substantial portion of the Contractor's properties is appointed; or if the Contractor abandons the Work; or if he fails, except in cases for which extension of time is provided, to prosecute promptly and diligently the Work or to supply enough properly skilled workmen or proper materials for the Work; or if the Contractor submits an application for payment, sworn statement, waiver of lien, affidavit or document of any nature whatsoever which is intentionally falsified; or if the Contractor fails to make prompt payment to Subcontractors for materials or labor

*(Paragraphs deleted)*

or otherwise breaches obligations under any subcontract with a Subcontractor; or if a lien or a notices of lien is filed against any part of the Project or Project funds or if the Contractor disregards any laws, statues, ordinances, rules, regulations or orders of any governmental body or public or quasi-public authority having jurisdiction of the Work or the Project premises; or if the Contractor otherwise violates any material provision of the Contract Documents, then, without prejudice to any right or remedy available Owner may, after giving the Contractor seven (7) days' written notice, terminate the Contractor, and take possession of the Project and all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and accept assignment of Subcontracts and may complete the Work by whatever reasonable method the Owner may deem expedient. If requested by the Owner, the Contractor shall remove any part or all of this equipment, machinery and supplies from the Project within seven (7) days from the date of such request, and in such event at the Contractor's expense. Upon request of the Contractor, the Owner shall furnish to the Contractor a reasonably detailed accounting of the costs incurred by the Owner in completing the Work.

§ 20.2.2 Intentionally omitted.

§ 20.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 20.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 20.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Architect, upon application, and this obligation for payment shall survive termination of the Contract.

§ 20.2.5 The Owner's right to terminate the contract pursuant to Section 20.2 shall be in addition to and not in limitation of its right to stop the Work without terminating the Contract as provided elsewhere in this Agreement.

### § 20.3 Termination by the Owner for Convenience

The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

*(Paragraphs deleted)*

Termination by the Owner under this Section 20.3 shall be by a written notice of termination specifying the extent of termination and the effective date.

§ 20.3.1 Upon receipt of a notice of termination for convenience, the Contractor shall immediately, in accordance with instructions from the Owner, proceed with performance of the following duties:

1. cease operation as specified in the notice;
2. place no further orders and enter into no further Subcontracts for materials, labor, services, equipment, or facilities except as necessary to complete continued portions of the Contract;
3. terminate all subcontracts and orders to the extent they relate to the Work terminated;
4. proceed to complete the performance of Work not terminated; and
5. take actions that may be necessary, or that the Owner may direct, for the protection and preservation of the terminated work.

§ 20.3.2 In the event of termination by Owner for convenience, the sum payable to the Contractor for the Work shall be prorated based upon the amount of properly performed Work completed. Owner shall receive proper credit for sums already paid. Upon any such termination, all obligations of Owner (other than payment of sums due Contractor for services properly performed but not previously paid prior to the date of termination) shall cease as of the effective date of termination.

§20.3.4 The Owner shall be credited for (1) payments previously made to the Contractor for the terminated portion of the Work, and (2) claims which the Owner has against the Contractor under the Contract.

### §20.4 SUSPENSION BY THE OWNER FOR CONVENIENCE

§20.4.1 The Owner may without cause order the Contractor in writing to suspend, delay or interrupt the Work in whole

or in part for such period of time as the Owner may determine.

**§20.4.2** If suspension, delay or interruption ordered by the Owner constitutes in the aggregate more than twenty percent (20%) of the total number of days scheduled for completion, an adjustment shall be made for increases in the cost of the performance of this Contract, excluding profit caused by such suspension, delay or interruption. No adjustment shall be made to the extent:

- .1 That the performance is, was, or would have been so suspended, delayed or interrupted by another cause, including without limitation the fault or negligence of the Contractor or any Subcontractor; or
- .2 That an equitable adjustment is made or denied under another provision of this Contract.

**§20.4.3** Adjustments made in the cost of performance may have a mutually agreed fixed or percentage fee.

## **ARTICLE 21 CLAIMS AND DISPUTES**

**§ 21.1** Intentionally omitted.

### **§ 21.2 Notice of Claims**

**§ 21.2.1** Intentionally omitted.

**§ 21.2.2** Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 18.2, shall be initiated by notice to the other party.

### **§ 21.3 Time Limits on Claims**

The Owner and Contractor shall commence all claims and causes of action against the other and arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in this Agreement whether in contract, tort, breach of warranty, or otherwise, within the period specified by applicable law.

**§ 21.4** If a claim, dispute or other matter in question relates to or is the subject of a mechanic's lien, the party asserting such matter may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

**§ 21.5** Intentionally omitted.

**§ 21.6** Intentionally omitted.

*(Paragraphs deleted)*

**§ 21.7- § 21.9** Intentionally omitted.

### **§ 21.10 Continuing Contract Performance**

Pending final resolution of a Claim, except as otherwise agreed in writing, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

### **§ 21.11 Waiver of Claims for Consequential Damages**

The Contractor waives Claims against the Owner for consequential damages arising out of or relating to this Contract. This

*(Paragraphs deleted)*

waiver includes, but is not limited to damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit arising from the Work.

This waiver is applicable, without limitation, to all consequential damages due to Owner's termination in accordance with Article 20.

In any suit or action arising under this Contract the Owner shall be entitled to an award of reasonable attorney's fees and costs of litigation.

## **ARTICLE 22 OTHER CONDITIONS OR PROVISIONS**

**§ 22.1** The Contractor shall be responsible for the supply and maintenance of any and all temporary equipment, utilities, and facilities necessary to properly and safely complete and protect the Work, including without limitation

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those required by winter conditions. Contractor shall provide and erect barricades and other safeguards adequate to warn of danger at the site and to protect persons and property from injury resulting from the Work.

**§ 22.2** The Contractor shall limit material and equipment storage to the immediate area of Work and such other areas as Owner may designate. The Contractor shall promptly remove and properly dispose off-site all construction material, trash, garbage and other debris.

**§ 22.3** The Contractor shall notify Architect and Owner in advance (to the extent practicable, notice shall be made at least 48 hours in advance) of any and all deliveries of major materials to the Project Site and shall give notice of receipt of materials and equipment that Architect or Owner has indicated or customarily would want to inspect prior to commencement of the Work. Prior to resumption of the Work in the event of a temporary suspension lasting longer than 72 hours, and at such other time intervals during the process of the Work as requested by Owner, in order to permit Owner to properly coordinate its normal operations and facilities requirements with the Work.

**§22.4** The following definitions are added to the Contract:

**"Final completion"** means the date the Contract has been fully performed, all the Work has been completed in accordance with the Contract Documents and the Owner has approved Final Payment to the Contractor.

**"Indicated"** and **"shown"** mean as described, detailed, discussed, scheduled, referenced, or called for in. or reasonably inferable from the Contract Documents in order to produce a first class Work product.

**"Provide"** or derivatives thereof means the Contractor shall properly fabricate, supply, furnish or procure all labor, materials, equipment, apparatus, and accessory appurtenances necessary to transport, deliver, install, erect and construct the specified item, complete, in place and ready for operation and use, including any final connections, in strict accordance with the Drawings, Specifications and other Contract Documents. The words "Contractor shall" are implied and shall be so understood whenever the direction or term "provide" is used.

**"Unit Price"** is an amount stated in the Contractor's bid proposal or in the Contract Documents as a price per unit of measurement for materials, equipment or services for a portion of the Work as described in the Bidding Documents or the Contract Documents. A Unit Price includes all costs associated with the performance of the portion of the Work for which the Unit Price is provided, including but not limited to labor, materials, equipment, loading, transportation, handling, unloading, overhead and profit.

**§22.5** Except as otherwise specifically provided in the Contract Documents, if and to the extent of any inconsistency, ambiguity, conflict, discrepancy or error in the Contract Document, and otherwise in interpreting the Contract Documents, the Parties shall give precedence to the Contract Documents in the following order of priority:

- (i) Modifications.
- (ii) Specifications.
- (iii) This Agreement except that the Supplementary Conditions shall take precedence over the General Conditions of the Contract.

#### **ARTICLE 23 • COMPLIANCE WITH LAWS**

**§ 23.1** The Contractor shall comply with all federal, state, county and local laws, codes, rules and regulations applicable to the Work including without limitation all building codes, permit conditions, the American with Disabilities Act and the equal employment opportunity clause of the Illinois Human Rights Act and the rules and regulations of the Illinois Department of Human Rights, the Illinois Prevailing Wage Act, and all laws and regulations pertaining to occupational and work safety, hours of operation and disposal of construction debris. A copy of the Contractor's certification of compliance with applicable laws is attached to and made a part of this Agreement.

**§23.2** The Contractor shall maintain and shall require its Subcontractors to maintain policies of employment as follows:

**§23.3.1** In the event of the Contractor's non-compliance with the provisions of this equal opportunity clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"). Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its

political subdivisions or municipal corporations, 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 regulation. During the performance of this Contract, Contractor agrees as follows:

- 1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation or preference, marital status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to a person's ability to perform the essential functions of the job, association with a person with a disability, military status or an unfavorable discharge from military service, or record of arrest; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2) That, if it hires additional employees in order to perform this Contract or any portions thereof, it will determine the availability (in accordance with the Department's Rules and Regulations) 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 underutilized.
- 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, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap or disability unrelated to a person's ability to perform the essential function of the job, or association with a person with a disability, military status or an unfavorable discharge from military service, or record of arrest.
- 4) 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 notify the Department and the Owner and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5) 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 Owner, and in all respects comply with the Illinois Human Rights Act and the Department's rules and regulations.
- 6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the Owner and the Department for purposes of investigation to ascertain Department's rules and regulations.
- 7) 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 Owner 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 (or contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

**§23.4** The Contractor is encouraged to utilize qualified minority businesses as subcontractors for supplies, services and construction.

**§23.5** The Contractor shall comply with the requirements of the Illinois Prevailing Wage Act (820 ILCS 130/0.01 *et seq.*) requiring payment of prevailing wages. The Contractor shall pay or cause to be paid not less than the prevailing rate of hourly wage in the county the Work is performed as determined by the Illinois Department of Labor for the

month in which the Work is performed including but not limited to all laborers, workers and mechanics. All contractors and subcontractors rendering services under this contract must comply with all requirements under the Act, including but not limited to, all wage, notice and record keeping duties.

The Contractor is required to verify current prevailing wage prior to the first day of each month and to pay the then-current prevailing wage rate as determined by the Illinois Department of Labor. Any increases in costs to the Contractor due to the changes in the prevailing wage during the term of this Contract shall be at the expense of Contractor and not at the expense of Owner. Current prevailing wage rates are published at the following: <https://www2.illinois.gov/idol/Laws-Rules/COMMED/Pages/2018-Rates.aspx>. The Contractor agrees to indemnify and hold harmless the Park District for any violations of the Prevailing Wage Act.

The Contractor shall also: (1) insert into each subcontract and the project specifications for each subcontract, a written stipulation that the subcontractor shall not pay less than the prevailing rate of hourly wage to all laborers, workers, and mechanics performing work under the contract; and (2) require each subcontractor to insert into each lower-tiered contract and the project specifications for each lower-tiered subcontract, a stipulation that the subcontractor shall not pay less than prevailing rate of hourly wage to all laborers, workers, and mechanics performing work under the contract.

The Contractor shall include on all bonds and shall cause all subcontractors' bonds required under the Contract Documents to guarantee compliance with the Prevailing Wage Act.

Additionally, the Contractor and each subcontractor shall make and keep, for a period of not less than 5 years from the date of the last payment on a contract or subcontract, records of all laborers, mechanics, and other workers employed by them on the Project; the records shall include each worker's name, address, telephone number when available, social security number, classification or classifications, the hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending times of work each day. The Contractor shall submit monthly, no later than the 10<sup>th</sup> day of each calendar month, in person, by mail, or electronically a certified payroll to the Park District with each monthly pay request in the form required by the Illinois Prevailing Wage Act. The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor which states that: (i) he or she has examined the certified payroll and such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required by this Act; and (iii) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor. The Contractor may rely on the certification of a lower tier subcontractor, provided the Contractor does not knowingly rely upon a subcontractor's false certification. The records submitted in accordance with this payroll submittal provision shall be considered public records pursuant to Section 5 of the Prevailing Wage Act, 820 ILCS 130/5 (2004, as amended by P.A. 94-515). The Park District may, at its option, immediately terminate the Contract in the event that Contractor violates any provision of this paragraph or the Prevailing Wage Act.

Contractor shall also post the prevailing wage rates for each craft or type of worker or mechanic needed to complete the project at either: (1) a location on the project site easily accessible to the workers engaged on the project; or (2) in lieu of posting on the project site, if the Contractor has a business location where laborers, workers, and mechanics may regularly visit, the Contractor may either post the prevailing rate of wages in each county the Contractor works in a conspicuous location or provide the laborers, workers or mechanics engaged on the project a written notice indicating the prevailing rate of wages for the project.

Upon seven business days' notice, the Contractor and each subcontractor shall make available for inspection and copying at a location within this State during reasonable hours, the records identified in 820 ILCS 130/5(a)(1) to the Owner, and its officers and agents.

This Agreement entered into as of the day and year first written above.

OAK BROOK PARK DISTRICT

\_\_\_\_\_  
**OWNER** *(Signature)*

\_\_\_\_\_  
**CONTRACTOR** *(Signature)*

\_\_\_\_\_  
*(Printed name and title)*

\_\_\_\_\_  
*(Printed name and title)*

# **Additions and Deletions Report for** **AIA® Document A104™ – 2017**

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 15:20:56 ET on 11/13/2019.

## **PAGE 1**

**AGREEMENT** made as of the day of in the year Two Thousand Nineteen

...

Oak Brook Park District  
1450 Forest Gate Road  
Oak Brook, IL 60523

...

Family Recreation Center RTU Replacement Project  
1450 Forest Gate Road  
Oak Brook, IL 60523

This Project includes the replacement of three roof top units and associated temperature control systems at Owner's Family Recreation Center, and all other incidental and collateral work necessary to complete the Project in accordance with the Contract Documents.

...

Kluber, Inc.  
10 South Shumway Avenue  
Batavia, IL 60510

## **PAGE 2**

**21 CLAIMS AND DISPUTES**

**22 OTHER CONDITIONS OR PROVISIONS**

**23 COMPLIANCE WITH LAWS**

## **PAGE 3**

Established as follows:

...

December 17, 2019

...

By the following date: April 10, 2020

...

NA

...

**§ 2.4 Final Completion**

**§ 2.4.1** Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Final Completion of the entire Work:

*(Check the appropriate box and complete the necessary information.)*

Not later than ( ) calendar days from the date of commencement of the Work.

By the following date: May 11, 2020

**§ 2.4.2** If the Contractor fails to achieve Final Completion as provided in this Section 2.4, liquidated damages, if any, shall be assessed as set forth in Section 3.5.

...

Stipulated Sum, in accordance with Section 3.2 below

PAGE 4

**§ 3.2** The Stipulated Sum shall be Dollars (\$ ), subject to additions and deductions as provided in the Contract Documents.

...

NA

**§ 3.3 Cost of the Work Plus Contractor's Fee**

**§ 3.3.1** The Cost of the Work is as defined in Exhibit A, Determination of the Cost of the Work.

**§ 3.3.2** The Contractor's Fee:

*(State a lump sum, percentage of Cost of the Work or other provision for determining the Contractor's Fee and the method of adjustment to the Fee for changes in the Work.)*

**§ 3.4 Cost of the Work Plus Contractor's Fee With a Guaranteed Maximum Price**

**§ 3.4.1** The Cost of the Work is as defined in Exhibit A, Determination of the Cost of the Work.

**§ 3.4.2** The Contractor's Fee:

*(State a lump sum, percentage of Cost of the Work or other provision for determining the Contractor's Fee and the method of adjustment to the Fee for changes in the Work.)*

**§ 3.4.3 Guaranteed Maximum Price**

**§ 3.4.3.1** The sum of the Cost of the Work and the Contractor's Fee is guaranteed by the Contractor not to exceed (\$ ), subject to additions and deductions by changes in the Work as provided in the Contract Documents. This maximum sum is referred to in the Contract Documents as the Guaranteed Maximum Price. Costs which would cause the Guaranteed Maximum Price to be exceeded shall be paid by the Contractor without reimbursement by the Owner.

*(Insert specific provisions if the Contractor is to participate in any savings.)*

**§ 3.4.3.2** ~~The Guaranteed Maximum Price is based on the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:  
(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)~~

**§ 3.4.3.3** ~~Unit Prices, if any:  
(Identify the item and state the unit price and the quantity limitations, if any, to which the unit price will be applicable.)~~

**§ 3.2.4** Adjustments to the Contract Sum: Adjustments to the Contract Sum for changes in the Work other than changes in the Work involving items for which unit prices were requested by Owner and provided in Contractor's Submitted Bid Proposal, shall be made as follows:

1. In the manner agreed to by the Parties, or in the absence of agreement then the combined allowance for overhead and profit in connection with changes to the Work shall be the lesser of the amount, if any, included in the Contractor's bid proposal, or the following:
  - a. Five percent (5%) of the cost of the change in the Work involved if performed by the Contractor not involving Subcontractors, or
  - b. Five percent (5%) of the cost of the change in the Work involved performed by Subcontractors, plus two percent (2%) of the cost of the change in the Work for the Contractor's supervision of the work performed by the Subcontractors.

When both additions and credits covering related Work are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

**§ 3.2.5** Overtime, if and when specifically authorized in advance in writing by the Owner shall be paid by the Owner on the basis of premium payment if any, plus the cost of insurance and taxes based on the premium payment period. No overhead or profit may be charged for overtime. The Contractor shall not be entitled to any payment for overtime necessitated by the failure of the Contractor to perform the Work in accordance with the Contract Documents including without limitation to the Contractor's failure to prosecute the Work diligently and on an uninterrupted basis and with a sufficient work force so as to achieve completion of the Work within the time and in the manner contemplated by the Contract Documents or otherwise due to the fault of the Contractor. In such instances if the Owner requires the Contractor to perform Work on an overtime basis, all costs for and associates with such overtime shall be borne by the Contractor.

Item	Units and Limitations	Price per Unit (\$0.00)
------	-----------------------	-------------------------

**§ 3.4.3.4** ~~Allowances, if any, included in the Guaranteed Maximum Price:  
(Identify each allowance.)~~

Item	Price
------	-------

**§ 3.4.3.5** ~~Assumptions, if any, on which the Guaranteed Maximum Price is based:~~

**§ 3.4.3.6** ~~To the extent that the Contract Documents are anticipated to require further development, the Guaranteed Maximum Price includes the costs attributable to such further development consistent with the Contract Documents~~

~~and reasonably inferable therefrom. Such further development does not include changes in scope, systems, kinds and quality of materials, finishes or equipment, all of which, if required, shall be incorporated by Change Order.~~

~~§ 3.4.3.7 The Owner shall authorize preparation of revisions to the Contract Documents that incorporate the agreed upon assumptions contained in Section 3.4.3.5. The Owner shall promptly furnish such revised Contract Documents to the Contractor. The Contractor shall notify the Owner and Architect of any inconsistencies between the agreed upon assumptions contained in Section 3.4.3.5 and the revised Contract Documents.~~

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Time is of the essence to the Contract. Should the Contractor fail to complete the Work on or before the Substantial Completion date as stipulated in the Contract or within such extended time as may have been allowed, the Contractor shall be liable and shall pay to the Owner the sum of \$175.00 per calendar day, not as a penalty but as a liquidated damages for each day of overrun in the Contract Time or such extended time as may have been allowed. The liquidated damages for failure to complete the Contract on time are approximate, due to the impracticality of calculating and proving actual delay costs. The costs of delay represented by the liquidated damage amount are understood to be a fair and reasonable estimate of the costs that will be borne by the Owner during extended and delayed performance by the Contractor for the Work. The liquidated damage amount specified will accrue and be assessed until Final Completion of the total physical Work of the Contract even though the Work may be substantially complete. The Owner will deduct these liquidated damages from any monies due or to become due to the Contractor from the Owner.

...

§ 4.1.1 Based upon Applications for Payment properly completed and accompanied by all supporting documentation and other submittals required by the Contract Documents, submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, and agreed to by the Owner and not subsequently nullified by the Architect in accordance with the Contract Documents, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 4.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows: month.

...

§ 4.1.3 Provided that an Application for Payment, which is in proper form and accompanied by the required supporting documents and submittals, in form and substance required by the Contract Documents, is received by the Architect not later than the 10th day of a month, certified by Architect and not subsequently nullified by Architect, the Owner shall make payment of the certified amount to the Contractor not later than the fifteenth day of the following month. If an Application for Payment is received by the Architect after the date fixed above, payment shall be made by the Owner not later than forty-five ( 45 ) days after the Architect receives the Application for Payment.

...

§ 4.1.4 For each progress payment made prior to Substantial-Final Completion of the Work, the Owner may withhold retainage from the payment otherwise due as follows:

...

10% of the Contract Sum

§ 4.1.5 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located. Contract, and any penalties associated with the same, shall be paid in accordance with the provisions of, the Illinois Local Government Prompt Payment Act, 50 ILCS 505/1 et seq.

*(Insert rate of interest agreed upon, if any.)*

—%  
PAGE 6

.1 ~~the Contractor has fully performed the Contract except for the achieved Final Completion of the Work, including Final Completion for Contractor's responsibility to correct Work as provided in Section Sections 9.4 and 18.2, and to satisfy other requirements, if any, which extend beyond final payment;~~

...

~~§ 4.2.2 The Subject to § 4.2.1, the Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows: Payment and approval by Owner.~~

...

~~For any claim subject to, but not resolved by, mediation pursuant to Section 21.5, the The method of binding dispute resolution shall be as follows:~~

...

[  ] Litigation in a court of competent jurisdiction

...

~~If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, claims will be resolved in a court of competent jurisdiction.~~

...

~~§ 6.1.2 AIA Document E203™ 2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below: (Insert the date of the E203 2013 incorporated into this Agreement.)~~

Intentionally Omitted.

~~§ 6.1.3 The Supplementary and other Conditions of the Contract: Contract are those included in the Project Manual dated November 18, 2019.~~

Document	Title	Date	Pages
----------	-------	------	-------

~~§ 6.1.4 The Specifications: (Either list the Specifications here or refer to an exhibit attached to this Agreement.)~~

Specifications are those included in the Project Manual dated November 18, 2019.

Section	Title	Date	Pages
---------	-------	------	-------

~~§ 6.1.5 The Drawings: Drawings are those included in the Project Manual dated November 18, 2019.~~

...

Number

Title

Date

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- a. Project Manual for Family Recreation Center RTU Replacement Project, dated November 18, 2019, incorporated herein by reference.
- b. Contractor's Proposal, dated \_\_\_\_\_, 2019, attached to and incorporated in this Agreement as Exhibit A.
- c. Contractor's Compliance and Certification, a copy of which is attached to and incorporated in this Agreement as Exhibit B.
- d. Performance Bond, Labor Material Payment Bond and Maintenance Bond, copies of which are attached to and incorporated as part of this Agreement by reference.

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~~§ 7.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.~~

§ 7.5.2 The Contractor, Subcontractors, Sub-subcontractors and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to the protocols established pursuant to Sections 7.6 and 7.7, if applicable, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

7.5.3 The Owner is the owner of the Contract Documents. The Contractor may retain one record set for use with this Project only. All copies of the Contract Documents except the Contractor's record set, shall be returned or suitably accounted for to the Owner on request upon completion of the Work.

...

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. ~~The parties will if applicable, the parties may~~ use AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

...

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, if completed, and the requisite AIA Document G202™-2013, Project Building Information Modeling Protocol Form, if completed, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

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#### § 7.10 Relationship of the Parties

~~Where the Contract is based on the Cost of the Work plus the Contractor's Fee, with or without a Guaranteed Maximum Price, the Contractor accepts the relationship of trust and confidence established by this Agreement and covenants with the Owner to cooperate with the Architect and exercise the Contractor's skill and judgment in furthering the interests of the Owner; to furnish efficient business administration and supervision; to furnish at all times an adequate supply of workers and materials; and to perform the Work in an expeditious and economical manner consistent with the Owner's interests. The Owner agrees to furnish and approve, in a timely manner, information~~

~~required by the Contractor and to make payments to the Contractor in accordance with the requirements of the Contract Documents.~~

...

~~§ 8.1.1 Prior to commencement of the Work, at the written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 8.1.1, the Contract Time shall be extended appropriately.~~

Intentionally omitted.

...

~~§ 8.1.3 The Subject to the Contractor's duties and obligations under the Contract Document and § 9.1.1 of this Agreement, the Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.~~

...

~~If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents, or repeatedly fails or refuses to provide a sufficient amount of properly supervised and coordinated labor, material or equipment so as to be able to complete the Work within the Contract Time, or fails to pay subcontractors or material suppliers timely or to remove and discharge within ten days any lien filed upon the Owner's property or funds by anyone claiming by, through or under the Contractor, or disregards the instructions of the Architect or Owner when based on the requirements of the Contract Documents, or otherwise fails to carry out the Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order is eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity.~~

...

~~If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents, and fails within a ten-day period after receipt of or fails to perform a duty under or comply with a provision of the Contract Documents and fails within a seven-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, or fails within such seven-day period to eliminate (or diligently commence to eliminate) the cause of any stop work order issued under Section 8.2 thereof, the Owner may, without prejudice to any other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the deficiencies, default or neglect and may deduct the actual cost thereof, including Owner's expenses and compensation for the Architect's services made necessary thereby, from the payment then or thereafter due the Contractor. Architect may, pursuant to Section 15.4.3, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including the Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 21.~~

...

~~§ 9.1.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents. By its execution of the Contract, the Contractor acknowledges, agrees, represents, and warrants that: (a) the Contractor has carefully and thoroughly examined the Contract Documents, and the Contract Documents are full and complete, include all items necessary for the proper execution and completion of the Work, are sufficient to have enabled the Contractor to determine the cost of the Work and the time required for~~

performance of the Work and to enable Contractor to construct the Work indicated therein in accordance with laws, ordinances, codes, regulations and rules applicable to the Work, and otherwise to fulfill all its obligations thereunder, including, but not limited to, Contractor's obligation to construct the Work for an amount not in excess of the Contract Sum on or before the date(s) of Substantial and Final Completion established in the Contract; (b) the omission from the Contract Documents of minor details which ordinarily form a part of first class work and are necessary to the completion of the Work as indicated, shall not be cause for any extra cost but shall be included as if specifically mentioned or detailed; (c) the Contractor has visited and examined the Project site and surrounding areas, examined all physical, legal and other conditions affecting the Work and correlated its personal observations with the requirements of the Contract Documents, and understands, is familiar with, and satisfied itself as to the same, including, without limitation: (i) the nature, location, and character of the Project and the site, including, without limitation surface conditions of the site and subsurface conditions observable or ascertainable upon the exercise of reasonable diligence including all structures and obstructions thereon and thereunder, both natural and manmade and all surface and subsurface water conditions of the site and the surrounding area; (ii) the nature, location, and character of the general area in which the Project is located, including without limitation, its generally prevailing climatic conditions, available labor supply and labor costs, and available equipment supply and equipment costs; (iii) the availability, quality, quantity and cost of all labor, materials, supplies, tools, equipment and professional services necessary to complete the Work in the manner and within the cost and time frame indicated by the Contract Documents.

By its execution of the Contract, the Contractor acknowledges, agrees, represents and warrants that it has carefully examined the Drawings, Specifications and other Contract Documents and having visited the Project site it has no actual knowledge of any discrepancies, omissions, ambiguities, or conflicts in or between the Contract Documents except those, if any, which have been clarified by Architect by Addenda to the Contractor's satisfaction, and that if it becomes aware of any such discrepancies, omissions, ambiguities, or conflicts, it has an obligation to and will immediately notify Owner and Architect of such fact, and will not proceed until it shall have received the written interpretation of Owner or Architect. If any such differences or conflicts which were ascertainable by careful review of the documents were not called to the Owner's and Architect's attention prior to submission by the Contractor of its bid proposal, the Architect shall decide which of the conflicting requirements will govern based upon the most stringent or highest quality of the requirements and, subject to the approval of the Owner, the Contractor shall perform the Work at no additional cost and/or time to the Owner in accordance with the Architect's decision.

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§ 9.1.3 ~~The~~ Except as otherwise required by the Contract Documents, the Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

...

§ 9.2.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and ~~attention~~ attention under the full-time supervision of an approved site superintendent or foreman capable of communicating clearly with the Architect and the Owner in English. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters.

...

§ 9.2.3 The Contractor has the responsibility to ensure that all material suppliers and Subcontractors, their agents, and employees adhere to the Contract Documents, and that they order materials on time, taking into account the current market and delivery conditions and that they provide materials on time. The Contractor shall coordinate its Work with that of all others on the Project including deliveries, storage, installations, and construction utilities. The Contractor shall be responsible for the space requirements, locations, and routing of its equipment. In areas and locations where the proper and most effective space requirements, locations, and routing cannot be made as indicated, the Contractor shall meet with all others involved, before installation, to plan the most effective and efficient method of overall installation.

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§ 9.3.3 The Contractor may make a substitution equivalent to or superior to the specified materials only with the consent of the Owner, after evaluation by the Architect and approval by the Owner and in accordance with a Modification.

§ 9.3.4 The Contractor shall only employ labor on the Project or in connection with the Work capable of working harmoniously with all trades, crafts and any other individuals associated with the Project. The Contractor shall also use its reasonable best efforts to minimize the likelihood of any strike, work stoppage or other labor disturbance. The Contractor shall comply with all requirements of OSHA and shall indemnify and hold harmless the Owner against and from any claims, losses, damages or expenses it may incur as a result of the failure of the Contractor or any of its Subcontractors to comply with OSHA requirements.

§ 9.3.5 If the Work is to be performed by trade unions, the Contractor shall make all necessary arrangements to reconcile, without delay, damage, or cost to the Owner and without recourse to the Architect, Owner's representative or the Owner, any conflict between the Contract Documents and any agreements or regulations of any kind at any time in force among members of councils which regulate or distinguish what activities shall not be included in the Work of any particular trade. In case the progress of the Work is affected by any undue delay in furnishing or installing any items or materials or equipment required under the Contract Documents because of the conflict involving any such agreement or regulations, the Architect or Owner's representative with the Owner's approval may require that other materials or equipment of equal kind and quality be provided at no additional cost to the Owner.

§ 9.3.6 The Contractor shall carefully inspect all materials delivered on and to the Project site and reject defective materials without waiting for the Architect or Owner to observe the materials.

§ 9.3.7 The Contractor shall deliver, handle, store and install materials in accordance with manufacturers' or suppliers' instructions.

§ 9.3.8 Before ordering any material or doing any Work, the Contractor shall verify all measurements at the Project Site and Contractor 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 by the Project Drawings.

§ 9.3.9 If any person employed by the Contractor on the Work shall appear to the Owner to be incompetent or conduct himself in a disorderly or improper manner, such person or persons shall be removed from the Work immediately on the request of the Owner. Said removal shall not create any additional cost to Owner and shall not extend the time for completion of the Work.

...

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, ~~except for those inherent in the quality of the Work the Contract Documents require or permit.~~ faults and defects. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work ~~not executed by the Contractor, or persons other than Contractor or subcontractor,~~ improper or insufficient maintenance, improper operation or normal wear and tear under normal usage. All other warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, ~~and shall commence in accordance with Section 15.6.3 to the Owner.~~ Inability, failure or refusal of the Subcontractor or supplier responsible for the defective materials, equipment or Work to correct the same shall not excuse the Contractor from performing under the warranty. If required by the Architect or the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials being furnished.

All warranties shall include labor and materials and shall be signed by the manufacturer or subcontractor as the case may be and countersigned by the Contractor. All warranties shall be addressed to the Owner and delivered to the Owner upon completion of the Work and before or with the submission of request for final payment. Except as otherwise provided in this Agreement or elsewhere in the Contract Documents, or in any Certificate of Substantial or Partial Completion approved by the Owner and Contractor and/or subcontractor, as applicable, all warranties shall

become effective on the date of Substantial Completion of the entire Work unless otherwise provided in any Certificate of Partial or Substantial Completion approved by the Owner and the Contractor or Subcontractor, as applicable, but only with respect to warranties for that specific portion of the Work, and shall run for a twenty-four (24) month period, unless a longer period is provided for in the Contract Documents or by law. Where warranties overlap, the more stringent requirement shall govern. The Contractor shall consult with the Owner prior to the submission of any application to the appropriate permitting agency or authority in order to afford Owner the opportunity to obtain a waiver or reduction of any fees or costs associated therewith.

Defective materials, equipment or workmanship occurring within the Warranty period may be repaired where such produces results conforming to the Contract Documents relating to appearance, performance and reliability. Where the nature of the defective materials, equipment or workmanship is such that acceptable results cannot be obtained by repair, such defective items shall be removed and replaced with new materials, equipment or workmanship complying with the Contract Documents.

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The Contractor shall pay sales, consumer, use, and other similar taxes that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect. Because the Owner is an Illinois unit of local government, the Illinois sales tax is not applicable to materials, equipment and supplies incorporated in the Work or wholly consumed in the performance of the Work. The Owner will provide its sales tax exemption number for use by Contractor in purchasing such materials, equipment and supplies for this Project.

...

**§ 9.6.2** The Contractor shall comply with and give notices and permit inspections required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work or having jurisdiction over the Work. The Contractor shall promptly notify the Architect and Owner if any of the Contract Documents appear to be a variance therewith. If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, or had it carried out its obligations under the Contract Documents generally, and Section 9.1.1 of this Agreement in particular, should reasonably have known it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

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The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, ~~and~~ the Contract Documents and as otherwise directed by Owner and shall not unreasonably encumber the site with materials or equipment.

#### **§ 9.10.1 Parking & Traffic.**

.1 Parking of construction vehicles on the site by the Contractor shall not inhibit construction nor prevent access for emergency or other official vehicles. Parking of private vehicles on the site by the Contractor is prohibited unless said vehicle is necessary in the execution of the Contract. No construction vehicles shall be parked near or under any existing vegetation on the site.

.2 Construction traffic and staging shall be permitted only within construction limits as indicated on plan. Contractor is responsible for repair of any areas disturbed outside of this area, including grading and sodding. No staging will be permitted on existing asphalt without Owner's prior written consent. The cost to repair any damage to existing asphalt will be back-charged to the Contractor.

**§ 9.10.2 Fencing.** Contractor will be responsible for erecting and maintaining construction fencing around the limits of the Project site at all times of construction in accordance with applicable law and the Contract Documents. Failure to erect or maintain this fencing will result in the correction of the problem by the Owner at the expense of the Contractor, and may include, but are not limited to, the cost of any materials and staff time. This fence must be installed and fully erected before construction operations beginning and tied-up at the end of each working day.

§ 9.10.3 Water Removal. If, during construction, standing water caused by heavy rains or poor drainage becomes a hazard in the proper execution of the Contract, it shall be the responsibility of the Contractor to provide and make payment for removal of said water to existing drainage swales, storm sewers or other natural or man-made drainage ways.

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The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall ~~remove~~ remove, and properly and lawfully dispose of as applicable, waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus material from and about the Project. The Contractor shall clean up and keep all streets, sidewalks and other public ways used for access to the Project site free from accumulation of spillage of fill or soils or other materials caused by operations under the Contract. The Contractor shall strictly comply with all laws and regulations pertaining to same be solely responsible for, and shall pay any fines or penalties assessed as the result of, any violation.

...

§ 9.15.1 To the fullest extent permitted by law, the Contractor waives any rights of contribution against, and shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, Owner and its officers, officials, employees, volunteers and agents from and against all claims, damages, losses and expenses including but not limited to legal fees (attorney's and paralegals' fees and court costs), arising out of or resulting from the performance of the Work, Contractor's work, provided that any such claim, damage, loss, loss or expense (i) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a property, other than the work itself, including the loss of use resulting there from and (ii) is caused in whole or in part by any wrongful or negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by them, any of them or anyone for whose acts they any of them may be liable, regardless of whether or not such claim, damage, loss, or expense it is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations otherwise reduce any other right or obligation of indemnity which would otherwise exist as to a party or person described in this Section 9.15.1; 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.

"Claims," "damages," "losses" and "expenses" as these words are used in this Agreement shall be construed to include, but not limited to (1) injury or damage consequent upon the failure of or use or misuse by Contractor, its subcontractors, agents, servants or employees, of any hoist, rigging, blocking, scaffolding, or any and all other kinds of items of equipment or other mechanical or structural contrivance erected or constructed by any person, or any or all other kinds of equipment whether or not the same be owned, furnished or loaned by Owner; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity or any other indemnity contained herein; (3) all costs and expenses incurred by the indemnified party; and (4) error or omission or defect in any submission made to Architect / Architect for its approval or review.

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§ 10.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, Owner and Architect. Consent shall not be unreasonably withheld.

...

§ 10.5 Based on the Architect's evaluations of the quality and progress of the Work and of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

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§ 11.2 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the Subcontractors or suppliers in writing of the name, trade and subcontract amount of each Subcontractor and supplier proposed for each of the principal portions of the Work. The Contractor shall not contract with any Subcontractor or supplier to whom the Owner or Architect has made reasonable written objection within ten days after receipt of the Contractor's written list of Subcontractors and suppliers. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

...

§ 11.4 All subcontracts shall be in writing and shall specifically provide that the Owner is an intended third-party beneficiary of such subcontract and that the Owner shall have the right to enforce the Subcontractor's obligations thereunder after the occurrence of a default under the Contract by the contractor. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar written agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their representatives proposed Sub-subcontractors.

§ 11.5 All subcontract agreements shall conform to the requirements of the Contract Documents and the Contractor hereby irrevocably assigns to the Owner and Owner's permitted assigns all its interest in any subcontract agreements and purchase orders now existing or hereinafter entered into the contractor for performance of any part of the Work, which assignment will be effective in the event of the Contractor's failure to perform the Work in accordance with the Contract Documents and upon acceptance by the Owner in writing and only as to those subcontract agreements and purchase orders that Owner designates in said writing. It is agreed and understood that the Owner may accept said assignment at any time during the course of construction prior to Final Completion. The Contractor shall promptly submit to the Owner a true and complete copy of each subcontract upon execution of same. Each subcontract shall contain a contingent assignment of the subcontract to the Owner, consistent with this Subparagraph. Upon acceptance by the Owner of a subcontract: (1) the Contractor shall promptly furnish to the Owner true and complete copies of the designated subcontract agreements and purchase orders, both as may have been amended by approved change order together with copies of any and all such amendments, and (2) the Owner shall only be required to compensate the designated Subcontractor(s) or supplier(s) for compensation accruing to such party(ies) for Work done or materials delivered from and after the date on which the Owner accepts the subcontract agreement(s) or purchase order(s). All sums due and owing by the Contractor to the designated Subcontractor(s) or supplier(s) for work performed or material supplied prior to the Owner's acceptance of the subcontract agreement(s) or purchase order(s) shall constitute a debt between such parties and the Contractor. It is further agreed that no subcontract agreement or purchase order shall contain any restriction that would prohibit assignment under the terms and conditions stated hereinabove. It is further agreed and understood that such assignment is part of the consideration to Owner for entering into the Contract with the Contractor and may not be withdrawn prior to Final Completion.

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§ 13.4 If concealed or unknown physical conditions are encountered at the site that differ materially from those indicated in the Contract Documents or from those conditions ordinarily found to exist, and the Contractor could not have discovered same in the exercise of reasonable diligence as required under Subsection 9.1.1 of this Agreement, the Contract Sum and Contract Time shall be equitably adjusted as mutually agreed between the Owner and Contractor; provided that the Contractor provides notice to the Owner and Architect promptly and before conditions are disturbed.

§ 13.5 Agreement on any Change Order shall constitute a final settlement, and accord and satisfaction between the Owner and Contractor, of all matters relating to the change in the Work which is the subject of the Change Order.

including, but not limited to, all direct and indirect costs associated with such change and any and all adjustments to the Contract Sum, Contract Time and Construction Schedule. In the event a Change Order increases the Contract Sum, the Contractor shall include the Work covered by such Change Order in Applications for Payment as if such Work were originally part of the Contract Documents.

§ 13.6 No change in the Work, whether by way of alteration or addition to the Work, shall be the bases of an addition to the Contract Sum or change in the Contract Time unless and until such alteration or addition has been authorized by a Change Order executed and issued in accordance with and in strict compliance with the requirements of the Contract Documents and applicable law. Accordingly, no course of conduct or dealing between the parties, nor any express or implied acceptance of alterations or additions to the Work and no claim that the Owner has been unjustly enriched shall be the basis of any claim to an increase in the Contract Sum or change in the Contract Time.

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§ 14.2 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion and for Final Completion of the Work.

...

§ 14.4 The date of Substantial Completion is the date and Final Completion are the dates certified by the Architect in accordance with Section 15.6.3.

§ 14.5 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) changes ordered in the Work; (2) by labor disputes, fire, unusual delay in deliveries, abnormal adverse weather conditions not reasonably anticipatable, unavoidable casualties, or any causes beyond the Contractor's control; or (3) by other causes that the Contractor asserts, and the Architect determines, justify delay, then determines and Owner agrees, justify delay, then, as the Contractor's sole remedy, the Contract Time shall be extended for such reasonable time as the Architect may determine, subject to the provisions of Article 21 determine. Notwithstanding the foregoing, delays of the Contractor to carry out its obligations under or in accordance with the provisions of the Contract, shall not extend the Contract Time.

§ 14.6 The Contractor shall carry the Work forward regularly, diligently, uninterruptedly and expeditiously and in a good workmanlike and professional manner at such a rate of progress and with an adequate work force as will insure the completion of the Work in accordance with the Contract Documents by the date established in the Contract. It is expressly understood and agreed by and between Contractor and Owner that the time for completion of the Work is a reasonable time, taking into consideration the average climatic range, usual industrial conditions, and all other conditions and actors prevailing in this locality.

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§ 15.3.3 ~~Payments~~ Unless approved in advance by the Owner in writing, payments shall be made on account of materials and equipment incorporated in the Work. If approved in advance by the Owner payment shall be made on account of materials and equipment delivered and suitably stored and protected from damage and loss at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment delivered and suitably stored, and protected from ~~damage, damage and loss~~, off the site at a location agreed upon in writing. The Owner may condition such approvals on such terms as the Owner in its discretion deems necessary for its protection.

...

§ 15.3.5 Failure to supply waivers of lien or acceptable evidence of payment of all current AIA accounts incurred by this Contract work will be considered grounds for withholding final payment.

§ 15.3.6 The first payment application shall be accompanied by the Contractor's Partial Waiver of Lien only, for the full amount of the payment. Each subsequent monthly payment application shall be accompanied by the Contractor Partial Waiver, and by the Partial lien Waivers of Subcontractor and Suppliers who were included in the immediately preceding payment application to the extent of that payment. Application for Final Payment shall be accompanied by Final Waivers of Lien from the Contractor, Subcontractors and Suppliers who have not previously furnished such Final Waivers. Final Waivers shall be for the full amount of the Contract. All applications for payment shall be

accompanied by affidavits, in triplicate, from the Contractor and Subcontractors containing such information and in such form as to comply with the Illinois Mechanics Lien Act (770 ILCS 60/0.01 et seq.) and showing in detail the sources of all labor and materials used and contracted to be used on the Project, including names and addresses of subcontractors and material suppliers; amounts paid and remaining to be paid to each; together with all documents as shall be necessary, in the sole judgment of the Architect and Owner, to waive all claims of liens to date and comply with all applicable state and local laws.

- (i) All waivers (partial and final) shall include language as applicable indicating either that:
- a. all material were taken from fully paid stock and delivered to job site in our own vehicles and all labor has been fully paid in accordance with prevailing wage laws; or
  - b. materials were provided by the following suppliers for whom waivers of lien are attached and all labor has been fully paid in accordance with prevailing wage laws.

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§ 15.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, but not to Contractor, based on the Architect's evaluations of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation to the Owner but not to the Contractor that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

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- .7 ~~repeated~~ failure to carry out the Work in accordance with the Contract Documents.

§ 15.4.4 ~~When either party disputes the Architect's decision regarding a Certificate for Payment under Section 15.4.3, in whole or in part, that party may submit a Claim in accordance with Article 21, the above reasons for withholding certification are removed. certification will be made for amounts previously withheld. No interest will be paid on amounts withheld.~~

...

§ 15.5.1 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to sub-subcontractors in a similar manner. This provision is not to be construed as a "conditional payment" or "pay when paid" clause. In the event that payment to the Contractor is delayed without fault of the Subcontractor, payment to the Subcontractor shall be made within a reasonable time after work is properly performed by a Subcontractor irrespective of any delay in payment to the Contractor.

...

§ 15.5.4 ~~Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any~~

tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 15.5.5 Anything to the contrary contained or implied herein notwithstanding, no progress payment need be made by Owner until such time as Contractor, Subcontractors or any other persons performing the Work or furnishing materials or equipment for the Project furnishes such documents as Owner may reasonably require (including without limitation sworn notarized contractor's statement, affidavits and waivers of lien).

...

§ 15.6.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete completed in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use for its intended use and has been accepted by Owner to receive all required occupancy permits.

"Punch List" mean and shall be limited to uncompleted items of Work (a) that do not interfere with the use and occupancy of any area of the Site for its intended purpose and (b) that, as a group, are capable of being completed by the Contractor within thirty (30) days of issuance of any Punch List. The "Punch List" is the list containing the Punch List Items.

...

§ 15.6.3 Upon receipt of the Contractor's list, the Architect and Owner will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's or Owner's inspection discloses an item, whether or not included in the Contractor's list, which is not in accordance with the Contract Documents and is necessary for Owner's occupancy or utilization of the Work, the Contractor shall before issuance of a Certificate of Substantial Completion, complete such items upon notification from the Architect and Owner. The cost of this and any additional inspections required to establish Substantial Completion due to the failure of the Contractor to properly complete all items of the Work necessary for the Owner's use or occupancy of the Work shall be charged to the Contractor. When the Architect determines that the Work or designated portion thereof is substantially complete, the Architect will issue a Certificate of Substantial Completion to the Owner for review and concurrence by the Owner which shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list-Punch List accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial-Final Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion with the exception of the items of Work contained in the Punch List accompanying the Certificate of Substantial Completion. With respect to Work enumerated on the Punch List, the guarantee or warranty period shall commence upon Contractor's completion and Owner's approval of the Punch List items.

§ 15.6.4 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

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§ 15.7.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, and the Architect has advised Owner of that finding and Owner has not advised Architect of any objection to such finding, the Architect will promptly issue a final Certificate for Payment to the Owner but not the Contractor stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions stated in Section 15.7.2 as precedent to the Contractor's being entitled to final payment have been fulfilled. The Owner's failure to object to, and the Owner's acceptance of, the

Architect's findings and/or certifications hereunder shall not constitute Owner's acceptance of Work not complying with the Contract Documents, or Owner's waiver of any claims or remedies it may have with respect to any such defective or delayed Work.

§ 15.7.2 Final payment shall not become due until the Contractor has fully performed the contract, including but not limited to, delivery of all manufacturer's and supplier's warranties, operating manuals, as-build drawings, and consent of the surety to final payment, pursuant to the Contract Documents, and has delivered to the Owner a complete release of all liens arising out of this Contract or receipts in full covering all labor, materials and equipment for which a lien could be filed, or a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including costs and reasonable attorneys' fees.

...

The final payment by Owner shall not relieve the Contractor of the responsibility for the correction of any and all defects in the work performed. Contractor shall correct all defects as notified for the applicable warranty period after final payment.

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§ 17.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in this Section 17.1 or elsewhere and in the Contract Documents. The Contractor shall purchase and maintain the insurance required by this Agreement from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. Contractor shall procure insurance from insurance companies that have obtained A.M. Best ratings 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. Failure to maintain the required insurance may result in termination of the Contract at Owner's option. 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.

...

Contractor shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella liability insurance with a limit of not less than \$2,000,000 each occurrence for at least three years following Substantial Completion of the Work.

§ 17.1.2 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than (\$ ) each occurrence, (\$ ) general aggregate, and (\$ ) aggregate for products-completed operations hazard, Two Million Dollars (\$ 2,000,000 ) each occurrence. Two Million Dollars (\$ 2,000,000 ) general aggregate, which shall apply separately to this project, and Two Million Dollars (\$ 2,000,000 ) each occurrence for products-completed operations hazard for at least three years following Completion of the Work, providing coverage for claims including

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.5 the Contractor's indemnity obligations under Section 9.15.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 04 93, or a substitute form providing equivalent coverage, and shall also cover liability arising from premises, operations, independent contractors, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract)

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.

**For Contractor's Continuing Completed Operations Liability Insurance:**

Continuing CGL insurance shall be written on ISO occurrence form CG 00 01 4 13, 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.

**§ 17.1.3** Automobile Liability covering vehicles owned by the ~~Contractor~~ Contractor, hired, and non-owned vehicles used by the Contractor, with policy limits of not less than One Million Dollars (\$ 1,000,000 ) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance, and use of those motor vehicles along with any other statutorily required automobile coverage. Business auto insurance shall be written 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.

...

**§ 17.1.5** Workers' Compensation ~~at statutory limits.~~

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 of \$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.

**§ 17.1.6** Employers' Liability with policy limits not less than One Million Dollars (\$ 1,000,000 ) each accident, One Million Dollars (\$ 1,000,000 ) each employee, and One Million Dollars (\$ 1,000,000 ) policy limit.

**§ 17.1.7** ~~If the Contractor is required to furnish professional services as part of the Work, the Contractor shall procure Professional Liability insurance covering performance of the professional services, with policy limits of not less than (\$ ) per claim and (\$ ) in the aggregate.~~

~~Intentionally deleted.~~

**§ 17.1.8** ~~If the Work involves the transport, dissemination, use, or release of pollutants, the Contractor shall procure Pollution Liability insurance, with policy limits of not less than (\$ ) per claim and (\$ ) in the aggregate.~~

~~Intentionally deleted.~~

**§ 17.1.9** ~~Coverage under Sections 17.1.7 and 17.1.8 may be procured through a Combined Professional Liability and Pollution Liability insurance policy, with combined policy limits of not less than (\$ ) per claim and (\$ ) in the aggregate.~~

~~Intentionally deleted.~~

**§ 17.1.10** The Contractor shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Section 17.1 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and ~~(3) upon~~ (3) within 10 days' upon the Owner's written request. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the period required by ~~Section 17.1.1. The certificates will show the Owner~~ Section 17.1.1 or upon Owner's written request for the same. The certificates will show the Owner, its elected and appointed officials, employees, volunteers and agents as an additional insured on the Contractor's Commercial General Liability and excess or umbrella liability policy. 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.

§ 17.1.11 The Contractor shall disclose to the Owner any deductible or self-insured retentions applicable to any insurance required to be provided by the Contractor. 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.

§ 17.1.12 To the fullest extent permitted by law, the Contractor shall cause the commercial liability coverage required by this Section 17.1 to include (1) the Owner, the Architect, and the Architect's Consultants as additional insureds Owner, its elected and appointed officials, employees, volunteers and agents for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory to any of the Owner's general liability insurance policies and shall apply to both ongoing and completed operations. ~~To the extent commercially available, the~~ The additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's Consultants, CG 20 32 07 04 or a substitute providing equivalent coverage, and under the commercial umbrella, if any. . .

If Contractor's liability policies do not contain the standard ISO separation of insured's' provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.

§ 17.1.13 ~~Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by this Section 17.1, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. All certificates shall provide for 30 days' written notice to the 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. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to either stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The Contractor or terminate the contract, at Owner's option. In the event Owner does not terminate, the~~ furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

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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.

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#### § 17.2.1 Owner's Liability Insurance

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance. Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance in the amount of the initial Contract Sum as well as subsequent modifications thereto for the entire Work at the site on a replacement cost basis without voluntary deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Article 15.7 or until no person or entity other than the Owner has an insurable interest in the property required by this Paragraph 17.2.1 to be covered, whichever is earlier. This insurance shall include the respective interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Work.

§ 17.2.2 Property Insurance ~~Property insurance shall be on a course of construction policy form and shall insure against the perils of fire and extended coverage and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, false work, windstorm, testing and start-up, temporary buildings and debris removal, including demolition, and shall cover reasonable compensation for the Architect's, any~~

of the Owner's Consultant's services and expenses required as a result of such insured loss. Coverage for other perils shall not be required unless otherwise provided in the Contract Documents. Property insurance provided by the Owner shall not cover Contractor's, Subcontractor's or Sub-subcontractor's liability or any tools, apparatus, machinery, scaffolding, hoists, forms, staging, shoring or other similar items commonly referred to as construction equipment, which may be on the site and the capital value of which is not included in the Work. The Contractor shall make his own arrangements for any insurance he may require on such construction equipment.

~~§ 17.2.2.1 The Owner shall purchase and maintain, from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, property insurance written on a builder's risk "all risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis. The Owner's property insurance coverage shall be no less than the amount of the initial Contract Sum, plus the value of subsequent Modifications and labor performed or materials or equipment supplied by others. The property insurance shall be maintained until Substantial Completion and thereafter as provided in Section 17.2.2.2, unless otherwise provided in the Contract Documents or otherwise agreed in writing by the parties to this Agreement. This insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Project as insureds. This insurance shall include the interests of mortgagees as loss payees.~~

~~§ 17.2.2.2 Unless the parties agree otherwise, upon Substantial Completion, the Owner shall continue the insurance required by Section 17.2.2.1 or, if necessary, replace the insurance policy required under Section 17.2.2.1 with property insurance written for the total value of the Project that shall remain in effect until expiration of the period for correction of the Work set forth in Section 18.4.~~

~~§ 17.2.2.3 If the insurance required by this Section 17.2.2 is subject to deductibles or self-insured retentions, the Owner shall be responsible for all loss not covered because of such deductibles or retentions.~~

~~§ 17.2.2.4 If the Work involves remodeling an existing structure or constructing an addition to an existing structure, the Owner shall purchase and maintain, until the expiration of the period for correction of Work as set forth in Section 18.4, "all risks" property insurance, on a replacement cost basis, protecting the existing structure against direct physical loss or damage, notwithstanding the undertaking of the Work. The Owner shall be responsible for all co-insurance penalties.~~

~~§ 17.2.2.5 Prior to commencement of the Work, the Owner shall secure the insurance, and provide evidence of the coverage, required under this Section 17.2.2 and, upon the Contractor's request, provide a copy of the property insurance policy or policies required by this Section 17.2.2. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.~~

~~§ 17.2.2.6 Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any insurance required by this Section 17.2.2, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.~~

#### **§ 17.2.2.7 Waiver of Subrogation**

~~§ 17.2.2.7.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by this Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this Section 17.2.2.7 shall not prohibit this waiver of subrogation. This waiver of subrogation shall~~

~~be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.~~

~~§ 17.2.2.7.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 17.2.2.7.1 for damages caused by fire or other causes of loss covered by this separate property insurance.~~

~~§ 17.2.2.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements, written where legally required for validity, the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.~~

**§ 17.2.3 Other Insurance Provided by the Owner**

~~(List below any other insurance coverage to be provided by the Owner and any applicable limits.) The Contractor shall effect insurance which will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work.~~

~~§ 17.2.4 If the property insurance requires minimum deductibles and such deductibles are identified in the Contract Documents, the Contractor shall pay costs not covered because of deductibles. If the Owner or insurer increases the required minimum deductibles above the amounts so identified or if the Owner elects to purchase this insurance with voluntary deductible amounts, the Owner shall be responsible for payment of the additional costs not covered because of such increased or voluntary deductibles. If deductibles are not identified in the Contract Documents, the Owner shall pay costs not covered because of deductibles.~~

~~§ 17.2.5 Unless otherwise provided in the Contract Documents, this property insurance shall cover portions of the Work stored off the site and paid for by Owner after written approval of the Owner at the value established in the approval, and also portions of the Work in transit and paid for by Owner.~~

~~§ 17.2.6 Partial occupancy or use shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.~~

~~§ 17.2.7 The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor Subcontractors and Sub-subcontractors in the Work, and the Owner and the Contractor shall be named insureds.~~

~~§ 17.2.8 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.~~

~~§ 17.2.9 Notwithstanding any provision contained in Article 17, the Owner's obligation to purchase insurance shall herein be deemed satisfied by the Owner's membership in a self-insured risk management agency or pool. The Contractor agrees that any obligation the Owner has to purchase property insurance shall be satisfied by the Owner's membership in a self-insured risk management agency or pool. The Contractor further agrees that it will only have rights allowable to it under any coverage provided through the Owner's membership in a self-insured risk management agency or pool.~~

~~Omitted.~~

**Coverage**

**Limits**

§ 17.3.3 If required by the Owner the Contractor, before commencing the Work, shall furnish a Performance Bond and a Labor and Material Payment Bond. The Performance Bond shall be in an amount equal to 110% of the full amount of the Contract Sum as security for the faithful performance of the obligations of the Contract Documents, including the payment of prevailing wages in accordance with Article 23 of this Agreement, and the Labor and Material Payment Bond shall be in an amount equal to 110% of the full amount of the Contract Sum as security for required payments to all persons performing labor and furnishing materials in connection with the Work. Such bonds shall be on AIA Document A-312, or the most current edition, issued by the American Institute of Architects, shall be issued by a surety satisfactory to the Owner, and shall name the Owner as primary co-obligee. Such bonds shall be from an Illinois Admitted Bonding Company acceptable to the Owner and having a minimum policy holder rating of "B+" in the latest edition of Best's Insurance Guide in effect as of the date of the Contract. Bonds shall remain in full force and effect for at least one year following the date of Final Completion of the Work or for the entire duration of the longest warranty period provided for the Work, whichever is longer. The cost of the bonds is to be included in the Contract Sum stated by the Contractor in its Bid Proposal.

§17.3.4 The Contractor shall (i) furnish with all bonds a certified copy of the power of attorney from the Surety Company stating that the person executing said bond is duly authorized by the Surety Company to execute said bond; (ii) furnish a certified copy of the certificate from said Surety Company's state showing said Surety Company licensed and authorized to transact business and execute said bond in Illinois; and (iii) if requested by Owner, furnish a copy of current financial statements of said Surety Company.

§17.3.5 In addition to the required performance and labor and material payment bonds, Contractor shall furnish a maintenance bond and/or irrevocable letter of credit in the amount of the Contract to guarantee the Work performed under the Contract against defective workmanship and/or defective materials of any nature for a period of not less than twenty-four (24) months from the date of acceptance of the Work, materials or equipment provided. The maintenance bond shall be in a form acceptable to District.

§ 18.1 The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed, or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense, unless compensable under Section A.1.7.3 in Exhibit A, Determination of the Cost of the Work. ~~expense~~ If prior to the date of Final Completion the Contractor, a Subcontractor, or anyone for who either of them is responsible, uses or damages any portion of the Work, including but not limited to mechanical, electrical, plumbing or other building system, machinery, equipment or other mechanical device, the Contractor shall cause such item to be replaced or if permitted by the Owner restored to "like new" condition, at no expense to the Owner.

§ 18.2 In addition to the Contractor's obligations under Section 9.4, if, within one year after the date of Substantial Final Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 15.6.3, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. ~~During the one year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty.~~ The obligation under this Section 18.2 shall survive acceptance of the Work under the Contract and termination of the Contract. Corrective Work shall be warranted to be free from defects for a period equal to the longer of twelve (12) months after the completion of the corrective Work or one (1) year from the date of Final Completion of the Work, or such longer period of time as may be prescribed by law or in equity or by the terms of any applicable special warranty. Notwithstanding the foregoing, Contractor shall correct Work deficiently or defectively performed and replace defective or non-conforming materials and equipment, even though such deficiency, defect or non-conformity may be discovered more than one (1) year after Final Completion, if the correction is of a latent defect and arises from poor workmanship or improper materials or equipment, or is required to be made to Work, materials or equipment covered by the Contractor or a Subcontractor contrary to the Architect's or Owner's request or to the request of a governmental officer, or to the requirements of the Contract Documents or Governmental Requirements, and was therefore not visible for inspection by the Architect, Owner or governmental officer, as applicable, at the time of inspection. Contractor shall, within a reasonable time under the circumstances,

after receipt of written notice thereof, correct, repair, replace and otherwise make good any defects or non-conformity in the Work.

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§ 18.5 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Article 18. Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 18.6 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of the Work that is not in accordance with the requirements of the Contract Documents

...

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 21.6, located.

...

Tests, inspections, and approvals of portions of the Work required by the Contract Documents or by applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities shall be made at an appropriate time. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections, or approvals that do not become requirements until after bids are received or negotiations ~~concluded~~ concluded and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating the costs to the Contractor, unless such tests, inspection or approvals were necessitated by the Contractor's failure to perform the Work in accordance with the Contract Documents in which event the Contractor shall bear the costs. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating the costs to the Contractor, unless such tests, inspection or approvals were necessitated by the Contractor's failure to perform the Work in accordance with the Contract Documents in which event the Contractor shall bear the costs.

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Dave Thommes  
Oak Brook Park District  
1450 Forest Gate Road  
Oak Brook, IL 60523  
T: 630-645-9534  
Email: dthommes@obparks.org

...

If the Architect fails to certify payment as provided in Section 15.4.1 for a period of 30 days through no fault of the Contractor, Contractor or for any undisputed payment and has not notified Contractor for the reason for withholding payment, or if the Owner fails to make payment as provided in Section 4.1.3 for a period of 30 days, the Contractor may, days through no fault of the Contractor or for any undisputed payment and has not notified Contractor for the reason for withholding payment, and such failure continues for a period of 90 days after notice from the Contractor, the Contractor may, as its sole remedy, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs

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~~incurred by reason of such termination, and damages unless this reason is cured prior to the expiration of the notice period, and recover from Owner payment of Work properly executed in accordance with the Contract Documents (the basis for such payment shall be as provided in the Contract) provided said Work was authorized in advance by Owner. The Owner shall have the right to cure any defect or default prior to the date of termination stated in any written notice from Contractor as provided herein, in which event Contractor shall continue with the Work. If the Contractor terminates the Work and receives payment in connection with his equipment, tools or materials such items shall be left and remain on the Site if the Owner so elects. Owner shall not be responsible for damages for loss of anticipated profits on Work not performed.~~

...

- ~~1~~ repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- ~~2~~ fails to make  
If the Contractor shall institute proceedings or consent to proceeding requesting relief or arrangement under the Federal Bankruptcy Act or any applicable Federal or State Law, or if a petition under any federal or state insolvency law is filed against the Contractor and such petition is not dismissed within sixty (60) days from the date of the filing, or if the Contractor admits in writing his inability to pay his debts generally as they become due, or if he makes a general assignment for the benefit of his creditors, or if a receiver, liquidator, trustee, or assignee is appointed on account of his bankruptcy or insolvency; or if a receiver of all or any substantial portion of the Contractor's properties is appointed; or if the Contractor abandons the Work; or if he fails, except in cases for which extension of time is provided, to prosecute promptly and diligently the Work or to supply enough properly skilled workmen or proper materials for the Work; or if the Contractor submits an application for payment, sworn statement, waiver of lien, affidavit or document of any nature whatsoever which is intentionally falsified; or if the Contractor fails to make prompt payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- ~~3~~ repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- ~~4~~ otherwise is guilty of substantial breach of a provision of the Contract Documents or otherwise breaches obligations under any subcontract with a Subcontractor; or if a lien or a notices of lien is filed against any part of the Project or Project funds or if the Contractor disregards any laws, statutes, ordinances, rules, regulations or orders of any governmental body or public or quasi-public authority having jurisdiction of the Work or the Project premises; or if the Contractor otherwise violates any material provision of the Contract Documents, then, without prejudice to any right or remedy available Owner may, after giving the Contractor seven (7) days' written notice, terminate the Contractor, and take possession of the Project and all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and accept assignment of Subcontracts and may complete the Work by whatever reasonable method the Owner may deem expedient. If requested by the Owner, the Contractor shall remove any part or all of this equipment, machinery and supplies from the Project within seven (7) days from the date of such request, and in such event at the Contractor's expense. Upon request of the Contractor, the Owner shall furnish to the Contractor a reasonably detailed accounting of the costs incurred by the Owner in completing the Work.

~~§ 20.2.2 When any of the reasons described in Section 20.2.1 exists, the Owner, upon certification by the Architect that sufficient cause exists to justify such action, may, without prejudice to any other remedy the Owner may have and after giving the Contractor seven days' notice, terminate the Contract and take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor and may finish the Work by whatever reasonable method the Owner may deem expedient. Upon request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work. Intentionally omitted.~~

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~~§ 20.2.5 The Owner's right to terminate the contract pursuant to Section 20.2 shall be in addition to and not in limitation of its right to stop the Work without terminating the Contract as provided elsewhere in this Agreement.~~

The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause. The Owner shall pay the Contractor for Work executed, and costs incurred by reason of such termination, including costs attributable to termination of Subcontracts; and a termination fee, if any, as follows:

*(Insert the amount of or method for determining the fee payable to the Contractor by the Owner following a termination for the Owner's convenience, if any.)*

Termination by the Owner under this Section 20.3 shall be by a written notice of termination specifying the extent of termination and the effective date.

§ 20.3.1 Upon receipt of a notice of termination for convenience, the Contractor shall immediately, in accordance with instructions from the Owner, proceed with performance of the following duties:

1. cease operation as specified in the notice;
2. place no further orders and enter into no further Subcontracts for materials, labor, services, equipment, or facilities except as necessary to complete continued portions of the Contract;
3. terminate all subcontracts and orders to the extent they relate to the Work terminated;
4. proceed to complete the performance of Work not terminated; and
5. take actions that may be necessary, or that the Owner may direct, for the protection and preservation of the terminated work.

§ 20.3.2 In the event of termination by Owner for convenience, the sum payable to the Contractor for the Work shall be prorated based upon the amount of properly performed Work completed. Owner shall receive proper credit for sums already paid. Upon any such termination, all obligations of Owner (other than payment of sums due Contractor for services properly performed but not previously paid prior to the date of termination) shall cease as of the effective date of termination.

§20.3.4 The Owner shall be credited for (1) payments previously made to the Contractor for the terminated portion of the Work, and (2) claims which the Owner has against the Contractor under the Contract.

#### §20.4 SUSPENSION BY THE OWNER FOR CONVENIENCE

§20.4.1 The Owner may without cause order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§20.4.2 If suspension, delay or interruption ordered by the Owner constitutes in the aggregate more than twenty percent (20%) of the total number of days scheduled for completion, an adjustment shall be made for increases in the cost of the performance of this Contract, excluding profit caused by such suspension, delay or interruption. No adjustment shall be made to the extent:

- .1 That the performance is, was, or would have been so suspended, delayed or interrupted by another cause, including without limitation the fault or negligence of the Contractor or any Subcontractor; or
- .2 That an equitable adjustment is made or denied under another provision of this Contract.

§20.4.3 Adjustments made in the cost of performance may have a mutually agreed fixed or percentage fee.

§ 21.1 Claims, disputes, and other matters in question arising out of or relating to this Contract, including those alleging an error or omission by the Architect but excluding those arising under Section 16.2, shall be referred initially to the Architect for decision. Such matters, except those waived as provided for in Section 21.11 and Sections 15.7.3 and 15.7.4, shall, after initial decision by the Architect or 30 days after submission of the matter to the Architect, be subject to mediation as a condition precedent to binding dispute resolution.  
Intentionally omitted.

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§ 21.2.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 18.2, shall be initiated by notice to the Architect within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.  
Intentionally omitted.

...

The Owner and Contractor shall commence all claims and causes of action against the other and arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in this Agreement whether in contract, tort, breach of warranty, or otherwise, within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 21.3. law.

...

~~§ 21.5 The parties shall endeavor to resolve their disputes by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with their Construction Industry Mediation Procedures in effect on the date of this Agreement. A request for mediation shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the mediation. The request may be made concurrently with the binding dispute resolution but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.~~

Intentionally omitted.

~~§ 21.6 If the parties have selected arbitration as the method for binding dispute resolution in this Agreement, any claim, subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association, in accordance with the Construction Industry Arbitration Rules in effect on the date of this Agreement. Demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.~~

Intentionally omitted.

~~§ 21.7 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation; (2) the arbitrations to be consolidated substantially involve common questions of law or fact; and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).~~

~~§ 21.8 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, any party to an arbitration may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of a Claim not described in the written Consent.~~

~~§ 21.7. § 21.9 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to this Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof. § 21.9 Intentionally omitted.~~

...

The Contractor and Owner waive claims against each other waives Claims against the Owner for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- ~~1~~ damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- ~~2~~ damages incurred by the waiver includes, but is not limited to damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

~~This mutual-waiver is applicable, without limitation, to all consequential damages due to either party's Owner's termination in accordance with Article 20. Nothing contained in this Section 21.11 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.~~

In any suit or action arising under this Contract the Owner shall be entitled to an award of reasonable attorney's fees and costs of litigation.

#### **ARTICLE 22 OTHER CONDITIONS OR PROVISIONS**

§ 22.1 The Contractor shall be responsible for the supply and maintenance of any and all temporary equipment, utilities, and facilities necessary to properly and safely complete and protect the Work, including without limitation those required by winter conditions. Contractor shall provide and erect barricades and other safeguards adequate to warn of danger at the site and to protect persons and property from injury resulting from the Work.

§ 22.2 The Contractor shall limit material and equipment storage to the immediate area of Work and such other areas as Owner may designate. The Contractor shall promptly remove and properly dispose off-site all construction material, trash, garbage and other debris.

§ 22.3 The Contractor shall notify Architect and Owner in advance (to the extent practicable, notice shall be made at least 48 hours in advance) of any and all deliveries of major materials to the Project Site and shall give notice of receipt of materials and equipment that Architect or Owner has indicated or customarily would want to inspect prior to commencement of the Work. Prior to resumption of the Work in the event of a temporary suspension lasting longer than 72 hours, and at such other time intervals during the process of the Work as requested by Owner, in order to permit Owner to properly coordinate its normal operations and facilities requirements with the Work.

§22.4 The following definitions are added to the Contract:

"Final completion" means the date the Contract has been fully performed, all the Work has been completed in accordance with the Contract Documents and the Owner has approved Final Payment to the Contractor.

"Indicated" and "shown" mean as described, detailed, discussed, scheduled, referenced, or called for in, or reasonably inferable from the Contract Documents in order to produce a first class Work product.

"Provide" or derivatives thereof means the Contractor shall properly fabricate, supply, furnish or procure all labor, materials, equipment, apparatus, and accessory appurtenances necessary to transport, deliver, install, erect and construct the specified item, complete, in place and ready for operation and use, including any final connections, in strict accordance with the Drawings, Specifications and other Contract Documents. The words "Contractor shall" are implied and shall be so understood whenever the direction or term "provide" is used.

"Unit Price" is an amount stated in the Contractor's bid proposal or in the Contract Documents as a price per unit of measurement for materials, equipment or services for a portion of the Work as described in the Bidding Documents or the Contract Documents. A Unit Price includes all costs associated with the performance of the portion of the Work for which the Unit Price is provided, including but not limited to labor, materials, equipment, loading, transportation, handling, unloading, overhead and profit.

§22.5 Except as otherwise specifically provided in the Contract Documents, if and to the extent of any inconsistency, ambiguity, conflict, discrepancy or error in the Contract Document, and otherwise in interpreting the Contract Documents, the Parties shall give precedence to the Contract Documents in the following order of priority:

- (i) Modifications.
- (ii) Specifications.
- (iii) This Agreement except that the Supplementary Conditions shall take precedence over the General Conditions of the Contract.

#### **ARTICLE 23 • COMPLIANCE WITH LAWS**

§ 23.1 The Contractor shall comply with all federal, state, county and local laws, codes, rules and regulations applicable to the Work including without limitation all building codes, permit conditions, the American with Disabilities Act and the equal employment opportunity clause of the Illinois Human Rights Act and the rules and

regulations of the Illinois Department of Human Rights, the Illinois Prevailing Wage Act, and all laws and regulations pertaining to occupational and work safety, hours of operation and disposal of construction debris. A copy of the Contractor's certification of compliance with applicable laws is attached to and made a part of this Agreement.

§23.2 The Contractor shall maintain and shall require its Subcontractors to maintain policies of employment as follows:

§23.3.1 In the event of the Contractor's non-compliance with the provisions of this equal opportunity clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, 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 regulation. During the performance of this Contract, Contractor agrees as follows:

- 1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation or preference, marital status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to a person's ability to perform the essential functions of the job, association with a person with a disability, military status or an unfavorable discharge from military service, or record of arrest; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2) That, if it hires additional employees in order to perform this Contract or any portions thereof, it will determine the availability (in accordance with the Department's Rules and Regulations) 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 underutilized.
- 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, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap or disability unrelated to a person's ability to perform the essential function of the job, or association with a person with a disability, military status or an unfavorable discharge from military service, or record of arrest.
- 4) 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 notify the Department and the Owner and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5) 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 Owner, and in all respects comply with the Illinois Human Rights Act and the Department's rules and regulations.
- 6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the Owner and the Department for purposes of investigation to ascertain Department's rules and regulations.
- 7) 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 Owner 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 (or contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

§23.4 The Contractor is encouraged to utilize qualified minority businesses as subcontractors for supplies, services and construction.

§23.5 The Contractor shall comply with the requirements of the Illinois Prevailing Wage Act (820 ILCS 130/0.01 et seq.) requiring payment of prevailing wages. The Contractor shall pay or cause to be paid not less than the prevailing rate of hourly wage in the county the Work is performed as determined by the Illinois Department of Labor for the month in which the Work is performed including but not limited to all laborers, workers and mechanics. All contractors and subcontractors rendering services under this contract must comply with all requirements under the Act, including but not limited to, all wage, notice and record keeping duties.

The Contractor is required to verify current prevailing wage prior to the first day of each month and to pay the then-current prevailing wage rate as determined by the Illinois Department of Labor. Any increases in costs to the Contractor due to the changes in the prevailing wage during the term of this Contract shall be at the expense of Contractor and not at the expense of Owner. Current prevailing wage rates are published at the following: <https://www2.illinois.gov/ohd/Laws-Rules/COSMILD/Pages/2011E-Rates.aspx>. The Contractor agrees to indemnify and hold harmless the Park District for any violations of the Prevailing Wage Act.

The Contractor shall also: (1) insert into each subcontract and the project specifications for each subcontract, a written stipulation that the subcontractor shall not pay less than the prevailing rate of hourly wage to all laborers, workers, and mechanics performing work under the contract; and (2) require each subcontractor to insert into each lower-tiered contract and the project specifications for each lower-tiered subcontract, a stipulation that the subcontractor shall not pay less than prevailing rate of hourly wage to all laborers, workers, and mechanics performing work under the contract.

The Contractor shall include on all bonds and shall cause all subcontractors' bonds required under the Contract Documents to guarantee compliance with the Prevailing Wage Act.

Additionally, the Contractor and each subcontractor shall make and keep, for a period of not less than 5 years from the date of the last payment on a contract or subcontract, records of all laborers, mechanics, and other workers employed by them on the Project; the records shall include each worker's name, address, telephone number when available, social security number, classification or classifications, the hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending times of work each day. The Contractor shall submit monthly, no later than the 10<sup>th</sup> day of each calendar month, in person, by mail, or electronically a certified payroll to the Park District with each monthly pay request in the form required by the Illinois Prevailing Wage Act. The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor which states that: (i) he or she has examined the certified payroll and such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required by this Act; and (iii) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor. The Contractor may rely on the certification of a lower tier subcontractor, provided the Contractor does not knowingly rely upon a subcontractor's false certification. The records submitted in accordance with this payroll submittal provision shall be considered public records pursuant to Section 5 of the Prevailing Wage Act, 820 ILCS 130/5 (2004, as amended by P.A. 94-515). The Park District may, at its option, immediately terminate the Contract in the event that Contractor violates any provision of this paragraph or the Prevailing Wage Act.

Contractor shall also post the prevailing wage rates for each craft or type of worker or mechanic needed to complete the project at either: (1) a location on the project site easily accessible to the workers engaged on the project; or (2) in lieu of posting on the project site, if the Contractor has a business location where laborers, workers, and mechanics may regularly visit, the Contractor may either post the prevailing rate of wages in each county the Contractor works in a conspicuous location or provide the laborers, workers or mechanics engaged on the project a written notice indicating the prevailing rate of wages for the project.

Upon seven business days' notice, the Contractor and each subcontractor shall make available for inspection and copying at a location within this State during reasonable hours, the records identified in 820 ILCS 130/5(a)(1) to the

Owner, and its officers and agents.

**PAGE 35**

OAK BROOK PARK DISTRICT

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## **Certification of Document's Authenticity**

**AIA® Document D401™ – 2003**

I, Nicole L. Karas, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 15:20:56 ET on 11/13/2019 under Order No. 8830539077 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A104™ – 2017, Standard Abbreviated Form of Agreement Between Owner and Contractor, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

*Nicole Karas*

*(Signed)*

**Nicole L. Karas**

*(Title)*

**November 13, 2019**

*(Dated)*

# Technical Specifications

**PROJECT MANUAL  
FOR**

**OAK BROOK PARK DISTRICT – FAMILY RECREATION CENTER  
RTU REPLACEMENT  
OAK BROOK, ILLINOIS 60523**

**OWNER**

OAK BROOK PARK DISTRICT  
1450 FOREST GATE ROAD  
OAK BROOK, ILLINOIS 60523

**ARCHITECT / ENGINEER**

KLUBER, INC.  
10 S. SHUMWAY AVENUE  
BATAVIA, ILLINOIS 60510



**SECTION 00 01 01  
PROJECT TITLE PAGE**

**PROJECT MANUAL**

**FOR**

**OAK BROOK PARK DISTRICT - FAMILY RECREATION CENTER RTU REPLACEMENT**

**1450 FOREST GATE ROAD  
OAK BROOK, ILLINOIS 60523**

**OWNER**

**OAK BROOK PARK DISTRICT  
1450 FOREST GATE ROAD  
OAK BROOK, ILLINOIS 60523**

**ARCHITECT/ENGINEER**

**KLUBER ARCHITECTS + ENGINEERS  
10 S. SHUMWAY AVE.  
BATAVIA, ILLINOIS 60510**

**SECTION 00 01 07  
SEALS PAGE**

**1.01 DESIGN PROFESSIONALS' SEALS**

A. ARCHITECT

B. MECHANICAL ENGINEER

C. ELECTRICAL ENGINEER

**END OF DOCUMENT**

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DRAWING INDEX**

**GENERAL**

G100 COVER SHEET, GENERAL NOTES, SYMBOLS & DRAWING INDEX

**MECHANICAL**

M230 MECHANICAL DEMOLITION ROOF PLAN

M400 MECHANICAL SCHEDULES & TEMPERATURE CONTROLS

ME330 MECHANICAL & ELECTRICAL ROOF PLAN

**END OF DOCUMENT**

**SECTION 00 11 13  
ADVERTISEMENT FOR BIDS**

**PROJECT:** OAK BROOK PARK DISTRICT - FAMILY RECREATION CENTER RTU  
REPLACEMENT  
1450 FOREST GATE ROAD  
OAK BROOK, ILLINOIS 60523

**OWNER:** OAK BROOK PARK DISTRICT  
1450 FOREST GATE ROAD  
OAK BROOK, ILLINOIS 60523

**ARCHITECT/  
ENGINEER:** KLUBER ARCHITECTS + ENGINEERS  
10 S. SHUMWAY AVENUE  
BATAVIA, ILLINOIS 60510

**DESCRIPTION OF THE WORK:**

The Owner will receive bids for the replacement of roof top units and associated building automation control systems. The Work will include: mechanical, electrical and minor demolition work.

**BASIS OF BIDS:**

Bids will be a single contract, stipulated sum.

**TIME OF COMPLETION:**

The Work will commence on December 17, 2019 or upon the successful execution of the contract and be performed such that the Project will be Substantially Complete as indicated in the Document 00 31 13 - Preliminary Schedule.

**BID OPENING:**

Sealed bids for all Contracts will be received by the Owner until 2:00 p.m. on Monday, December 2, 2019 in a sealed envelope addressed with the name of the Bidder, Owner, name and number of Contract, and the date and time of the Bid. Deliver to the Family Recreation Center, 1450 Forest Gate Road. Oak Brook. IL 60523. Bids will be publicly opened at that time.

**EXAMINATION AND PROCUREMENT OF DOCUMENTS:**

The Bidding Documents will consist of one full set of Drawings and one Project Manual.

**THE BIDDING DOCUMENTS MAY BE DOWNLOADED IN PDF FORMAT FROM THE OWNER'S WEBSITE: [HTTPS:WWW.ObPARKS.ORG/BIDS-RFPS](https://www.obparks.org/bids-rfps). THE BIDDING DOCUMENTS ARE ALSO AVAILABLE IN PRINTED FORMAT FROM THE ADMINISTRATIVE OFFICE AT THE DISTRICT'S FAMILY RECREATION CENTER, 1450 FOREST GATE ROAD, OAK BROOK, IL 60523, MONDAY - FRIDAY, 9:00AM - 5:00 PM. PLEASE NOTE THE PRINTED DRAWINGS AVAILABLE AT THE ADMINISTRATIVE OFFICE WILL BE ON 11" X 17" PAPER.**

**The Bidding Documents may be examined at the Architect's office:**

Batavia, Illinois Office: 10 S. Shumway Ave., Batavia, IL 60510.

**BID SECURITY:**

All bid proposals must be accompanied by a bid bond or bank cashier's check payable to the Oak Brook Park District for ten percent (10%) of the amount of the bid as provided in the Instructions to Bidders. No proposals or bids will be considered unless accompanied by such bond or check.

**PRE-BID MEETING:**

A mandatory pre-bid meeting will be held at Family Recreation Center, 1450 Forest Gate Road. Oak Brook. IL 60523 at 10:30 a.m. on Friday, November 22, 2019. Prospective bidders are requested to attend.

**RIGHT TO REJECT BIDS:**

The Owner reserves the right to reject any and all bids and to waive any errors, omissions or irregularities in the bids or the bidding procedure when, in the opinion of the Owner, such action will serve its best interests. Any bid which is not accompanied by the required bid security or by any other documents or certifications required by the Bidding Documents, and any bid which is in any way incomplete or irregular, is subject to rejection at the sole discretion of the Owner.

**GOVERNING LAWS AND REGULATIONS:**

The Work of this Project is subject to the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 et seq. A prevailing wage determination has been made by the Illinois Department of Labor for public works projects in DuPage County. Prevailing wage rates will apply to this Project and must be included in the Bid amount.

The Contractor selected will also be required to comply with all applicable federal, state and local laws, rules, regulations and executive orders including but not limited to those pertaining to equal employment opportunity.

**END OF DOCUMENT**

**SECTION 00 31 13  
PRELIMINARY SCHEDULE**

**1.01 GENERAL**

- A. The following represents the preliminary construction schedule for the Work. This schedule is the current estimate of the Owner to be used for purposes of bidding. All bidders shall include the costs of all overtime, double-shift, or so-called "premium" time that may be necessary to meet this milestone.

**1.02 PRELIMINARY SCHEDULE**

- A. Board Award of Contract: Anticipated December 16, 2019
- B. Commencement of Construction: Anticipated December 17, 2019
- C. All Shop Drawings Complete: December 30, 2019
- D. Substantial Completion: April 10, 2020
- E. Final Completion: May 11, 2020

**END OF SECTION**

**SECTION 00 43 23  
ALTERNATES FORM**

**PARTICULARS**

1.01 THE FOLLOWING IS THE LIST OF ALTERNATES REFERENCED IN THE BID SUBMITTED BY:

1.02 (Bidder) \_\_\_\_\_

1.03 TO (Owner ): Oak Brook Park District

1.04 Dated \_\_\_\_\_ and which is an integral part of the Bid Form.

**ALTERNATES LIST**

2.01 THE FOLLOWING AMOUNTS SHALL BE ADDED TO OR DEDUCTED FROM THE BID AMOUNT.  
REFER TO SECTION 01 23 00 - Alternates.

ALTERNATE # 1: ADD / (DEDUCT) \$ \_\_\_\_\_

**END OF SECTION**

**SECTION 01 10 00  
SUMMARY**

**PART 1 GENERAL**

**1.01 PROJECT**

- A. Project Name: OAK BROOK PARK DISTRICT - FAMILY RECREATION CENTER RTU REPLACEMENT.
- B. Owner's Name: Oak Brook Park District.
- C. Architect/Engineer's Name: Kluber Architects + Engineers.
- D. The Project consists of the replacement of three (3) roof top units and associated temperature control systems.

**1.02 CONTRACT DESCRIPTION**

- A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 00 52 00 - Agreement Form.

**1.03 DESCRIPTION OF ALTERATIONS WORK**

- A. Scope of demolition and removal work is shown on drawings.
- B. Scope of alterations work is indicated on drawings.
- C. HVAC: Replace existing system with new construction.

**1.04 OWNER OCCUPANCY**

- A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.
- B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy.

**1.05 CONTRACTOR USE OF SITE AND PREMISES**

- A. Construction Operations: Limited to renovation areas.
- B. Arrange use of site and premises to allow:
  - 1. Owner occupancy.
  - 2. Use of site and premises by the public.
- C. Provide access to and from site as required by law and by Owner:
  - 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
  - 2. Do not obstruct roadways, sidewalks, or other public ways without permit.
- D. Existing building spaces may not be used for storage.
- E. Utility Outages and Shutdown:
  - 1. Limit disruption of utility services to hours the building is unoccupied.

2. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
3. Prevent accidental disruption of utility services to other facilities.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 01 23 00  
ALTERNATES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

A. Description of Alternates.

**1.02 RELATED REQUIREMENTS**

A. Document 00 43 23 - Alternates Form: List of Alternates as supplement to Bid Form.

**1.03 ACCEPTANCE OF Alternates**

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option.  
Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

**1.04 SCHEDULE OF Alternates**

A. Alternate No. 1 - Replace existing roof top portals at all location at all three roof top units.:

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 01 25 00  
SUBSTITUTION PROCEDURES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Procedural requirements for proposed substitutions.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 60 00 - Product Requirements: Fundamental product requirements, product options, delivery, storage, and handling.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 GENERAL REQUIREMENTS**

- A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
  - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
  - 2. Agrees to provide the same warranty for the substitution as for the specified product.
  - 3. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
  - 4. Waives claims for additional costs or time extension that may subsequently become apparent.
- B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
- C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
- D. Limit each request to a single proposed substitution item.
- E. Use of brand names in these Specifications is used for the purpose of establishing a grade or quality. Bidders proposing to use an alternate that is equal to or superior to in every respect to that required by the Specifications must request approval in writing to the Architect at least seven (7) business days prior to the bid opening and mark the item as 'or approved equal' and otherwise in accordance with the Instructions to Bidders.

**3.02 RESOLUTION**

**3.03 ACCEPTANCE**

- A. See Instructions to Bidders for acceptance of substitutions proposed prior to the bid deadline.
- B. No substitutions shall be accepted after the bid deadline except in the following limited situations:
  - 1. The product, assembly, material or equipment specified is no longer available;
  - 2. A change in the law or legal requirements governing construction of the Project requires the use of a different product, assembly, material or equipment than what was specified;

3. The substitute product, assembly, material or equipment substantially reduces Owner's cost to construct the Project; or
4. Owner otherwise determines use of a substitute product is in its best interest.

**END OF SECTION**

**SECTION 01 30 00  
ADMINISTRATIVE REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. General administrative requirements.
- B. Preconstruction meeting.
- C. Progress meetings.
- D. Construction progress schedule.
- E. Submittals for review, information, and project closeout.
- F. Architect/Engineer-provided CAD files.
- G. Number of copies of submittals.
- H. Submittal procedures.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 32 16 - Construction Progress Schedule: Form, content, and administration of schedules.
- B. Section 01 70 00 - Execution and Closeout Requirements: Additional coordination requirements.
- C. Section 01 78 00 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.

**1.03 GENERAL ADMINISTRATIVE REQUIREMENTS**

- A. Conform to requirements of Section 01 70 00 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 PRECONSTRUCTION MEETING**

- A. Architect/Engineer will schedule a meeting after Notice of Award.
- B. Attendance Required:
  - 1. Owner.
  - 2. Architect/Engineer.
  - 3. Contractor.
- C. Agenda:
  - 1. Execution of Owner-Contractor Agreement.
  - 2. Submission of executed bonds and insurance certificates.
  - 3. Distribution of Contract Documents.

4. Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
  5. Designation of personnel representing the parties to Contract and Architect/Engineer.
  6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
  7. Scheduling.
- D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect/Engineer, Owner, participants, and those affected by decisions made.

### **3.02 PROGRESS MEETINGS**

- A. Schedule and administer meetings throughout progress of the work at maximum bi-monthly intervals.
- B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
- C. Attendance Required:
1. Contractor.
  2. Owner.
  3. Architect/Engineer.
  4. Contractor's superintendent.
- D. Agenda:
1. Review minutes of previous meetings.
  2. Review of Work progress.
  3. Field observations, problems, and decisions.
  4. Identification of problems that impede, or will impede, planned progress.
  5. Review of submittals schedule and status of submittals.
  6. Review of off-site fabrication and delivery schedules.
  7. Maintenance of progress schedule.
  8. Corrective measures to regain projected schedules.
  9. Planned progress during succeeding work period.
  10. Maintenance of quality and work standards.
  11. Effect of proposed changes on progress schedule and coordination.
  12. Other business relating to Work.
- E. Record minutes and distribute copies within two days after meeting to participants, with copies to Architect/Engineer, Owner, participants, and those affected by decisions made.

### **3.03 CONSTRUCTION PROGRESS SCHEDULE - See Section 01 32 16**

### **3.04 SUBMITTALS FOR REVIEW**

- A. When the following are specified in individual sections, submit them for review:
1. Product data.
  2. Shop drawings.
  3. Samples for selection.
  4. Samples for verification.

- B. Submit to Architect/Engineer for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- C. Samples will be reviewed only for aesthetic, color, or finish selection.
- D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 78 00 - Closeout Submittals.

### **3.05 SUBMITTALS FOR INFORMATION**

- A. When the following are specified in individual sections, submit them for information:
  - 1. Design data.
  - 2. Certificates.
  - 3. Test reports.
  - 4. Inspection reports.
  - 5. Manufacturer's instructions.
  - 6. Manufacturer's field reports.
  - 7. Other types indicated.
- B. Submit for Architect/Engineer's knowledge as contract administrator or for Owner. No action will be taken.

### **3.06 SUBMITTALS FOR PROJECT CLOSEOUT**

- A. Submit Correction Punch List for Substantial Completion.
- B. Submit Final Correction Punch List for Substantial Completion.
- C. When the following are specified in individual sections, submit them at project closeout:
  - 1. Project record documents.
  - 2. Operation and maintenance data.
  - 3. Warranties.
  - 4. Bonds.
  - 5. Other types as indicated.
- D. Submit for Owner's benefit during and after project completion.

### **3.07 ARCHITECT/ENGINEER-PROVIDED CAD FILES**

- A. After the execution of the Contract, Architect/Engineer will provide, free of charge, upon receipt of a properly completed and signed request utilizing "Electronic Data Transfer Consent Form" at the end of this Specification Section, CAD files depicting graphic information for the project as follows:
  - 1. Architectural Floor Plans: Column grid, walls, floors, stairs, doors, windows, room numbers, ceiling grid, mechanical diffusers, plumbing fixtures, sprinkler heads (if depicted in Bid Documents) and lights.
- B. Contractor acknowledges and accepts that the Architectural Floor Plans do not contain structural, mechanical, electrical, plumbing, fire protection and other building systems information depicted in the Bidding Documents. Examples of information not contained in these files include, but are not limited to, title blocks, keynotes, schedules, mechanical ductwork and equipment, electrical device symbols, circuit numbers and home runs, plumbing equipment, piping runs and riser diagrams,

and architectural/engineering text or details. No other CAD files, data or information will be provided.

- C. Only requests from Prime Contractors will be honored. Subcontractors must obtain the files from their respective Prime Contractors.
- D. In submitting a request, Contractor acknowledges that:
  - 1. Architect/Engineer bears no responsibility for the data or its transmission,
  - 2. Use of the data by the Contractor or his subcontractors in no way relieves the Contractor of his obligations under the Contract,
  - 3. Contractor is solely liable for any and all claims arising from any and all products generated by the Contractor or its Subcontractors employing the data,
  - 4. Contractor and its Subcontractors have a limited, non-exclusive license to use the data solely in connection with the Work of the Project, and that
  - 5. Architect/Engineer and Owner retains all rights, including copyright, to the data.

### **3.08 NUMBER OF COPIES OF SUBMITTALS**

- A. Documents for Review:
  - 1. Small Size Sheets: Not Larger Than 11 x 17 inches. Submit two (2) paper copies, one of which will be retained by Architect/Engineer. Contractor shall make his own copies from the original returned by the Architect.
    - a. Contractor's Option: In lieu of paper copies indicated above, submit in Adobe PDF electronic file format via email. Architect will return a reviewed copy in Adobe PDF electronic file format via email. Create PDFs at native size and right-side up; illegible files will be rejected.
  - 2. Large Size Sheets: Larger Than 11 x17 inches; 36 x 48 inches maximum. Submit two (2) paper copies, one of which will be retained by Architect/Engineer. Electronic file format (PDF or other) is NOT acceptable. Contractor shall make his own copies from the original returned by the Architect.
- B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect/Engineer.
  - 1. After review, produce duplicates.
  - 2. Retained samples will not be returned to Contractor unless specifically so stated.

### **3.09 SUBMITTAL PROCEDURES**

- A. Shop Drawing Procedures:
  - 1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting the Contract Documents and coordinating related Work.
  - 2. Generic, non-project specific information submitted as shop drawings do not meet the requirements for shop drawings.
- B. Transmit each submittal with approved form.
- C. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

- D. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- E. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
- F. Deliver submittals to Architect/Engineer at business address.
- G. Schedule submittals to expedite the Project, and coordinate submission of related items.
- H. For each submittal for review, allow 20 days excluding delivery time to and from the Contractor.
- I. Clearly identify variations from the Contract Documents. Regardless of the type of variation, Contractor is solely responsible for errors in the field that arise from submittal variations from the requirements of the Contract Documents if those variations were not expressly noted to specifically identify for and describe to the reviewer the nature of the variation from the Contract Documents.
- J. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- K. Correlate submitted items with specified products; clearly indicate the specified product that corresponds to each submitted item.
- L. When options or optional features available for a Product are indicated in a submittal, and selections for those options/features are indicated in the Contract Documents, identify on the submittal the selection indicated in the Contract Documents.
- M. Provide space for Contractor and Architect/Engineer review stamps.
- N. When revised for resubmission, using clouds, highlights or other means acceptable to the Architect, identify all changes made since previous submission. Resubmittals that do not clearly identify all changes may be delayed and/or returned to the Contractor unreviewed.
- O. The Contractor is entitled to one (1) resubmittal of any Shop Drawing, Product Data, or Closeout Submittal item rejected by the Architect or returned by the Architect for further action. Thereafter, the Contractor shall pay the cost of all further Architect's reviews of Shop Drawing, Product Data or Closeout Submittal, at a rate of \$200.00/hour. Cost of such further reviews will be deducted from the Contract Sum by Change Order.
- P. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- Q. Submittals not requested will not be recognized or processed.
- R. Submittal reviews may be delayed and/or submittals may be returned unreviewed for any of the following reasons:
  - 1. Submittals submitted outside the scheduled dates of the Submittal Schedule.
  - 2. Submittals are incomplete or are missing information.

3. Submittals are not submitted in accordance with procedures outlined in this Section (i.e. spec Section number not indicated, missing Contractor's review stamp, submitted items not correlated with specified products).

**END OF SECTION**

**ELECTRONIC DATA TRANSFER CONSENT FORM**

Project Name: OAK BROOK PARK DISTRICT – FAMILY RECREATION CENTER RTU REPLACEMENT  
1450 FOREST GATE ROAD  
OAK BROOK, ILLINOIS 60523

Project No.: 19-310-1271

Owner: OAK BROOK PARK DISTRICT

Your Work: \_\_\_\_\_

KLUBER, INC. (hereinafter referred to as “Kluber”) an Illinois corporation, is providing electronic data to you solely at your request and for your convenience. By accepting and opening any of the electronic data files, you agree that Kluber and Owner bears no liability for the data or its transmission to you and that you are solely liable for any and all claims referring or relating to any and all products you, or your Subcontractors, may generate with the data.

You acknowledge that you have a limited non-exclusive license to use the information solely in connection with your work on the project captioned above, and that Kluber and Owner retains all rights, including copyright, to the data.

Acknowledged by: \_\_\_\_\_  
(Printed Name) (Signature)

Company: \_\_\_\_\_

Date: \_\_\_\_\_ Email: \_\_\_\_\_

Architectural Floor Plans are transmitted for the contractors' use as backgrounds for shop drawings and as-built drawings, and, as such, contain graphic information for column grid, walls, floors, stairs, doors, windows, room numbers, ceiling grid, lights, diffusers and sprinkler heads where indicated on Bid Documents. Plans do not contain title blocks, keynotes, schedules, mechanical ductwork and equipment, electrical device symbols, circuit numbers and home runs, plumbing equipment, piping runs and riser diagrams, and architectural/engineering text and details. Plans depict entire floors and are not formatted, partial plans as depicted in the Bidding Documents. Files are provided in R2013 .DWG format.)

**SECTION 01 32 16**  
**CONSTRUCTION PROGRESS SCHEDULE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Preliminary schedule.

**1.02 RELATED SECTIONS**

- A. Section 01 10 00 - Summary: Work sequence.

**1.03 SUBMITTALS**

- A. Within 2 days after date of Agreement, submit preliminary schedule .
- B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
- C. Within 5 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
- D. Submit one reproducible copy.
- E. Submit under transmittal letter form specified in Section 01 30 00 - Administrative Requirements.

**1.04 SCHEDULE FORMAT**

- A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.
- B. Diagram Sheet Size: 11 x 17 inches .
- C. Scale and Spacing: To allow for notations and revisions.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 PRELIMINARY SCHEDULE**

- A. Prepare preliminary schedule in the form of a horizontal bar chart.

**3.02 CONTENT**

- A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
- B. Identify each item by specification section number.
- C. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.
- D. Provide legend for symbols and abbreviations used.

**3.03 REVIEW AND EVALUATION OF SCHEDULE**

- A. Participate in joint review and evaluation of schedule with Architect/Engineer at each submittal.

- B. Evaluate project status to determine work behind schedule and work ahead of schedule.
- C. After review, revise as necessary as result of review, and resubmit within 10 days.

#### **3.04 DISTRIBUTION OF SCHEDULE**

- A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect/Engineer, Owner, and other concerned parties.
- B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

**END OF SECTION**

**SECTION 01 41 00  
REGULATORY REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. General.
- B. Definitions.
- C. Quality Assurance.
- D. Regulatory Requirements.

**1.02 RELATED SECTIONS**

- A. Section 01 10 00 - Summary.
- B. Section 01 42 00 - References.

**1.03 GENERAL**

- A. Comply with all applicable laws, rules, regulations, codes and ordinances.
- B. If the Contractor observes that the Contract Documents may be at variance with specified codes, notify the Architect/Engineer immediately. Architect/Engineer shall issue all changes in accordance with the General Conditions.
- C. It shall not be the Contractor's primary responsibility to make certain that the Contract Documents are in accordance with all applicable laws, rules and regulations, however, when the Contractor performs work knowing or having reason to know that the work in question is contrary to applicable laws, rules, and regulations, and fails to notify the Architect/Engineer, the Contractor shall pay all costs arising therefrom.

**1.04 DEFINITIONS**

- A. Definitions:
  - 1. Codes: Codes are statutory requirements, rules or regulations of governmental entities.
  - 2. Standards: Standards are requirements that have been established as accepted criteria, set general consent.

**1.05 QUALITY ASSURANCE**

- A. The Architect/Engineer has designed the project to applicable code requirements and has copies of said codes available for the Contractor's inspection.
- B. The Contractor shall:
  - 1. Ensure that copies of codes and standards referenced herein or specified in individual specifications sections are available to Contractor's personnel, agents, and Sub-Contractors.
  - 2. Ensure that Contractor's personnel, agents, and Sub-Contractors are familiar with the workmanship and requirements of applicable codes and standards.

## 1.06 REGULATORY REQUIREMENTS

- A. Source and Requirements: Verify amendments with local code officials.
1. Local code requirements:
    - a. ICC International Building Code, 2009 Edition.
    - b. ICC International Mechanical Code, 2009 Edition.
    - c. BOCA National Fire Code, 2009 Edition.
    - d. ICC International Property Maintenance Code, 2006 Edition.
    - e. National Electrical Code, 2008 Edition.
  2. State code requirements:
    - a. Capital Development Board (CDB):
      - 1) Illinois Accessibility Code, 1997 Edition.
      - 2) Illinois Energy Conservation Code (ICC International Energy Conservation Code, 2012 Edition, with State of Illinois modifications.
    - b. Illinois Department of Labor (IDOL): Safety Glazing Materials Act - Illinois Revised Statutes, chap. 111 1/2, paragraph 3101, et seq.
    - c. Illinois Department of Public Health (IDPH):
      - 1) Illinois Plumbing Code (Illinois Administrative Code, Title 77, Chapter I, Subchapter r, Part 890) - Latest Edition.
    - d. Illinois Environmental Protection Agency (IEPA):
      - 1) Air-Pollution Standards.
      - 2) Noise Pollution Standards.
      - 3) Water Pollution Standards.
      - 4) Public Water Supplies
      - 5) Solid Waste Standards.
      - 6) Illinois Recommended Standards for Sewage Works (Illinois Administrative Code, Title 35, Subtitle C, Chapter II, Part 370).
    - e. Illinois State Fire Marshal (OSFM):
      - 1) Boiler & Pressure Vessel Safety Code (Illinois Administrative Code, Title 44, Chapter I, Part 120).
      - 2) Illinois Rules & Regulations for Fire Prevention & Safety (as amended).
      - 3) Gasoline and Volatile Oils (Illinois Revised Statutes, chap. 17 1/2, paragraph 31, et seq.).
  3. Information and Requirements for Utility Services: Local utility companies.

### PART 2 PRODUCTS - NOT USED

### PART 3 EXECUTION - NOT USED

**END OF SECTION**

**SECTION 01 42 00  
REFERENCES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Drawing symbols, abbreviations and acronyms.
- B. Definitions of terms used throughout the Contract Documents.
- C. Explanation of specification format and content.
- D. Requirements relating to referenced standards.
- E. Applicability of referenced standards.
- F. List of industry organizations and certain of their respective documents.

**1.02 DRAWING SYMBOLS AND CONVENTIONS**

- A. Abbreviations and graphic symbols are defined on the General Notes, Symbols & Abbreviations sheet of the drawings.
- B. Generally, symbols used on the mechanical and electrical drawings conform to those recommended by ASHRAE, though, where appropriate, these symbols are supplemented by more specific symbols as recommended by ASME, ASPE, or the IEEE.

**1.03 DEFINITIONS**

- A. Where the terms "indicated", "noted", "scheduled", "shown", or "specified" are used it is to help locate the reference; no limitation on location is intended except as specifically noted.
- B. Where the terms "directed", "requested", "authorized", "approved", are used as in "directed by the Architect/Engineer", no implied meaning shall be construed to extend the Architect/Engineer's responsibilities into the Contractor's purview of construction supervision.
- C. Where the term "approved" is used in conjunction with the Architect/Engineer's action on submittals, requests or applications it is limited to the duties of the Architect/Engineer as described in the Agreement, and the General and Supplemental Conditions of the Contract. Such use of the term "approval" shall not limit or release the Contractor from his responsibility to fulfill Contract requirements.
- D. Where the term "regulations" is used it means all applicable statutes, laws, ordinances, and orders issued by authorities having jurisdiction, as well as construction industry standards, rules, or conventions that address performance of the Work.
- E. Where the term "furnish" is used it means supply, deliver, and unload to the construction site ready for assembly and incorporation into the Work.
- F. Where the term "install" is used it is meant to describe operations at the job site to include unloading, assembling, placing, anchoring, finishing, protecting, cleaning and all other similar operations required to fully incorporate an item into the Work.
- G. Where the term "provide" is used it means "furnish and install" as defined above.

H. The "Project Site" is the space available to the Contractor for performance of construction activities. The Project Site may be for the exclusive use of the Contractor and his activities or may be used in conjunction with others with others performing other construction or related activities on the Project. The Extent of the Project Site is indicated on the drawings.

#### **1.04 SPECIFICATION FORMAT AND CONTENT**

- A. These Specifications are based on the Construction Specification Institute's 49 Division format and numbering system.
- B. Language used in the Specifications and other Contract Documents is an abbreviated type. Implied words and meanings will appropriately interpreted.
- C. Requirements expressed in imperative and streamlined language are to be performed by the Contractor. At certain locations in the text, subjective language may be used to describe responsibilities that must be fulfilled indirectly by the Contractor or others.
  - 1. Whenever a colon (:) is used within a sentence or phrase, it shall be construed to mean the words "shall be".
- D. Use of certain terms such as "carpentry" is not intended to imply that certain activities must be performed by accredited or unionized individuals of a corresponding generic name. The Specifications do, however, require that certain construction activities shall be performed by specialists who are recognized experts in the operations to be performed. Specialists shall be used for said activities, however the final responsibility for fulfilling the requirements of the Contract remains the Contractor's.

#### **1.05 QUALITY ASSURANCE**

- A. For products or workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue specified in this section, except where a specific date is established by applicable code.
- C. Obtain copies of standards when required by the Contract Documents.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from the Architect/Engineer before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of the Architect/Engineer shall be altered by the Contract Documents by mention or inference otherwise in any reference document.

#### **1.06 APPLICABILITY OF INDUSTRY STANDARDS**

- A. Construction industry standards shall have the same force and effect as if bound or copied directly in the Contract Documents, except where more stringent requirements are specified. All such applicable standards are made a part of the Contract Documents by reference.

1. Where compliance with two or more standards are referenced and conflicting requirements for quality or quantities occur, comply with the more stringent requirements. Refer questions regarding apparently conflicting standards to the Architect for a decision before proceeding.
2. The standard of quality or quantity levels specified, shown, or referenced shall be the minimum to be provided or performed. Refer questions regarding standards of minimum quality or quantity to the Architect before proceeding.

#### **1.07 CONSTRUCTION INDUSTRY ORGANIZATIONS AND DOCUMENTS**

- A. AABC -- ASSOCIATED AIR BALANCE COUNCIL
- B. AAMA -- AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION
- C. ADC -- AIR DIFFUSION COUNCIL
- D. AGA -- AMERICAN GAS ASSOCIATION
- E. AGC -- ASSOCIATED GENERAL CONTRACTORS OF AMERICA
- F. ANSI -- AMERICAN NATIONAL STANDARDS INSTITUTE
- G. ASHRAE -- AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
- H. ASME -- THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
  1. ASME A17.1 - Safety Code for Elevators and Escalators; 2004.
- I. ASTM -- AMERICAN SOCIETY FOR TESTING AND MATERIALS
- J. AWS -- AMERICAN WELDING SOCIETY
- K. AWWA -- AMERICAN WATER WORKS ASSOCIATION
- L. CPSC -- CONSUMER PRODUCTS SAFETY COMMISSION
- M. FM -- FACTORY MUTUAL RESEARCH CORPORATION
- N. ICC -- INTERNATIONAL CODE COUNCIL, INC.
- O. IEEE -- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- P. ISO -- INTERNATIONAL STANDARDS ORGANIZATION
- Q. NAAMM -- THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
- R. NECA -- NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
- S. NEMA -- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- T. NFPA -- NATIONAL FIRE PROTECTION ASSOCIATION
- U. NRCA -- NATIONAL ROOFING CONTRACTORS ASSOCIATION
- V. PDCA -- PAINTING AND DECORATING CONTRACTORS OF AMERICA
- W. PDI -- PLUMBING AND DRAINAGE INSTITUTE

X. SMACNA -- SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.

Y. UL -- UNDERWRITERS LABORATORIES INC.

Z. USG -- UNITED STATES GYPSUM

1. USG (HB) - Gypsum Construction Handbook; Seventh Edition.

**1.08 UNITED STATES GOVERNMENT AND RELATED AGENCIES/DOCUMENTS**

A. CFR -- CODE OF FEDERAL REGULATIONS

B. CPSC -- CONSUMER PRODUCTS SAFETY COMMISSION

C. EPA -- ENVIRONMENTAL PROTECTION AGENCY

D. FS -- FEDERAL SPECIFICATIONS AND STANDARDS (General Services Administration)

E. GSA -- U.S. GENERAL SERVICES ADMINISTRATION

F. USGS -- UNITED STATES GEOLOGICAL SURVEY

**1.09 STATE GOVERNMENT AND RELATED AGENCIES/DOCUMENTS**

A. CDB -- ILLINOIS CAPITAL DEVELOPMENT BOARD

B. IDOL -- ILLINOIS DEPARTMENT OF LABOR

C. IDPH -- ILLINOIS DEPARTMENT OF PUBLIC HEALTH

D. IEPA -- ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

E. OSFM -- OFFICE OF THE ILLINOIS STATE FIRE MARSHAL.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 01 50 00  
TEMPORARY FACILITIES AND CONTROLS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Temporary telecommunications services.
- B. Temporary sanitary facilities.
- C. Temporary Controls: Barriers, enclosures, and fencing.
- D. Security requirements.
- E. Vehicular access and parking.
- F. Waste removal facilities and services.

**1.02 TELECOMMUNICATIONS SERVICES**

- A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.
- B. Telecommunications services shall include:
  - 1. One (1) mobile cellular telephone for each of Contractor's and any Subcontractor's field personnel.

**1.03 TEMPORARY SANITARY FACILITIES**

- A. Use of existing facilities located at project site is permitted.
- B. Maintain daily in clean and sanitary condition.
- C. At end of construction, return facilities to same or better condition as originally found.

**1.04 FENCING**

- A. Provide 6 foot high fence around construction site; equip with vehicular and pedestrian gates with locks.

**1.05 EXTERIOR ENCLOSURES**

- A. Provide temporary weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

**1.06 INTERIOR ENCLOSURES**

- A. Provide temporary partitions to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.
- B. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:

### **1.07 VEHICULAR ACCESS AND PARKING**

- A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
- B. Coordinate access and haul routes with governing authorities and Owner.
- C. Provide and maintain access to fire hydrants, free of obstructions.
- D. Provide means of removing mud from vehicle wheels before entering streets.
- E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

### **1.08 WASTE REMOVAL**

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. Provide containers with lids. Remove trash from site periodically.
- C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

### **PART 2 PRODUCTS - NOT USED**

### **PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 01 60 00  
PRODUCT REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. General product requirements.
- B. Product option requirements.
- C. Substitution limitations.
- D. Maintenance materials, including extra materials, spare parts, tools, and software.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 25 00 - Substitution Procedures: Substitutions made during procurement and/or construction phases.
- B. Section 01 74 19 - Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and substitutions.

**1.03 SUBMITTALS**

- A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
  - 1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

**PART 2 PRODUCTS**

**2.01 NEW PRODUCTS**

- A. Provide new products unless specifically required or permitted by Contract Documents.
- B. Use of products having any of the following characteristics is not permitted:

**2.02 PRODUCT OPTIONS**

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, or equal to or superior to product as approved by Architect pursuant to the substitution process set forth in the Instructions to Bidders.

- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for equal to or superior to substitution for any manufacturer not named.

## **2.03 MAINTENANCE MATERIALS**

- A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- B. Deliver to Project site; obtain receipt prior to final payment.

## **PART 3 EXECUTION**

### **3.01 SUBSTITUTION LIMITATIONS**

- A. See Section 01 25 00 - Substitution Procedures.

### **3.02 TRANSPORTATION AND HANDLING**

- A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
- B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
- C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- D. Transport and handle products in accordance with manufacturer's instructions.
- E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
- H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

### **3.03 STORAGE AND PROTECTION**

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 01 74 19.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.
- D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.
- E. For exterior storage of fabricated products, place on sloped supports above ground.

- F. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
- G. Comply with manufacturer's warranty conditions, if any.
- H. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- I. Prevent contact with material that may cause corrosion, discoloration, or staining.
- J. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- K. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

**END OF SECTION**

## SUBSTITUTION REQUEST FORM

PROJECT: OAK BROOK PARK DISTRICT – FAMILY RECREATION CENTER RTU REPLACEMENT

SPECIFIED ITEM: \_\_\_\_\_

Specification Section	Page	Paragraph	Description
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The undersigned requests consideration of the following:

PROPOSED SUBSTITUTION: \_\_\_\_\_

Attached data includes project description, specifications, drawings, photographs, performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents which the proposed substitution will require for its proper installation.

The undersigned certifies that the following paragraphs, unless modified by attachments, are correct:

1. The proposed substitution does not affect dimensions shown on drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing, and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Firm

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
Email

\_\_\_\_\_  
Attachments (list):

For Use By The Architect/Engineer:

Accepted       Accepted As Noted

Not Accepted       Received Too Late

By: \_\_\_\_\_

Date: \_\_\_\_\_

Remarks:

**SECTION 01 70 00**  
**EXECUTION AND CLOSEOUT REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Examination, preparation, and general installation procedures.
- B. Pre-installation meetings.
- C. Cutting and patching.
- D. Cleaning and protection.
- E. Starting of systems and equipment.
- F. Demonstration and instruction of Owner personnel.
- G. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.
- H. General requirements for maintenance service.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 10 00 - Summary: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.
- B. Section 01 30 00 - Administrative Requirements: Submittals procedures.
- C. Section 01 71 23 - Field Engineering: Additional requirements for field engineering and surveying work.
- D. Section 01 77 00 - Closeout Procedures: Additional requirements for Project Closeout.
- E. Section 01 78 00 - Closeout Submittals: Project record documents, operation and maintenance data, warranties and bonds.
- F. Section 01 79 00 - Demonstration and Training: Demonstration of products and systems to be commissioned and where indicated in specific specification sections

**1.03 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
  - 1. Indicate extent of demolition, removal sequence, bracing and shoring, and location and construction of barricades and fences. Include design drawings and calculations for bracing and shoring.
  - 2. Identify demolition firm and submit qualifications.
  - 3. Include a summary of safety procedures.
- C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
  - 1. Structural integrity of any element of Project.
  - 2. Integrity of weather exposed or moisture resistant element.
  - 3. Efficiency, maintenance, or safety of any operational element.

4. Visual qualities of sight exposed elements.

#### **1.04 QUALIFICATIONS**

- A. For field engineering, employ a professional engineer of the discipline required for specific service on Project, licensed in the State in which the Project is located.
- B. For design of temporary shoring and bracing, employ a Professional Structural Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

#### **1.05 PROJECT CONDITIONS**

- A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
- B. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
  - 1. Provide dust-proof barriers between construction areas and areas continuing to be occupied by Owner.
- C. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
- D. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
- E. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.
- F. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

#### **1.06 COORDINATION**

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Notify affected utility companies and comply with their requirements.
- C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

- F. Coordinate completion and clean-up of work of separate sections.
- G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

## **PART 2 PRODUCTS**

### **2.01 PATCHING MATERIALS**

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.
- C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 60 00 - Product Requirements.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

### **3.02 PREPARATION**

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

### **3.03 PREINSTALLATION MEETINGS**

- A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.
- B. Require attendance of parties directly affecting, or affected by, work of the specific section.

- C. Notify Architect/Engineer four days in advance of meeting date.
- D. Prepare agenda and preside at meeting:
  - 1. Review conditions of examination, preparation and installation procedures.
  - 2. Review coordination with related work.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect/Engineer, Owner, participants, and those affected by decisions made.

### **3.04 LAYING OUT THE WORK**

- A. Promptly notify Architect/Engineer of any discrepancies discovered.
- B. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect/Engineer.
- C. Utilize recognized engineering survey practices.
- D. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
  - 1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
  - 2. Grid or axis for structures.
  - 3. Building foundation, column locations, ground floor elevations.
- E. Periodically verify layouts by same means.
- F. Maintain a complete and accurate log of control and survey work as it progresses.

### **3.05 GENERAL INSTALLATION REQUIREMENTS**

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.

### **3.06 CUTTING AND PATCHING**

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. Perform whatever cutting and patching is necessary to:
  - 1. Complete the work.
  - 2. Fit products together to integrate with other work.
  - 3. Provide openings for penetration of mechanical, electrical, and other services.
  - 4. Match work that has been cut to adjacent work.
  - 5. Repair areas adjacent to cuts to required condition.
  - 6. Repair new work damaged by subsequent work.

7. Remove samples of installed work for testing when requested.
  8. Remove and replace defective and non-conforming work.
- C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
  - D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
  - E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
  - F. Restore work with new products in accordance with requirements of Contract Documents.
  - G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
  - H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 84 00, to full thickness of the penetrated element.
  - I. Patching:
    1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
    2. Match color, texture, and appearance.
    3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

### **3.07 PROGRESS CLEANING**

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

### **3.08 PROTECTION OF INSTALLED WORK**

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

- E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- F. Protect work from spilled liquids. If work is exposed to spilled liquids, immediately remove protective coverings, dry out work, and replace protective coverings.
- G. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- H. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

### **3.09 SYSTEM STARTUP**

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify Architect/Engineer and owner seven days prior to start-up of each item.
- C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
- D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
- E. Verify that wiring and support components for equipment are complete and tested.
- F. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
- G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.
- H. Submit a written report that equipment or system has been properly installed and is functioning correctly.

### **3.10 DEMONSTRATION AND INSTRUCTION**

- A. See Section 01 79 00 - Demonstration and Training.

### **3.11 ADJUSTING**

- A. Adjust operating products and equipment to ensure smooth and unhindered operation.

### **3.12 FINAL CLEANING**

- A. Execute final cleaning after Substantial Completion but before making final application for payment.
  - 1. Clean areas to be occupied by Owner prior to final completion before Owner occupancy.
- B. Use cleaning materials that are nonhazardous.
- C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- D. Clean filters of operating equipment.

- E. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, and drainage systems.
- F. Clean site; sweep paved areas, rake clean landscaped surfaces.
- G. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.
- H. Clean Owner-occupied areas of work affected by dust and debris.

### **3.13 CLOSEOUT PROCEDURES**

- A. Make submittals that are required by governing or other authorities.
- B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion.
- C. Notify Architect/Engineer when work is considered ready for Architect/Engineer's Substantial Completion inspection.
- D. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect/Engineer's Substantial Completion inspection.
- E. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect/Engineer's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect/Engineer.
- F. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
- G. Notify Architect/Engineer when work is considered finally complete and ready for Architect/Engineer's Substantial Completion final inspection.
- H. Complete items of work determined by Architect/Engineer listed in executed Certificate of Substantial Completion.

### **3.14 MAINTENANCE**

- A. Provide service and maintenance of components indicated in specification sections.
- B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warranty, whichever is longer.
- C. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- D. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.

E. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

**END OF SECTION**

**SECTION 01 77 00  
CLOSEOUT PROCEDURES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES:**

- A. Substantial Completion Procedures.
- B. Final Completion Procedures.

**1.02 RELATED REQUIREMENTS:**

- A. Section 01 10 00 - Summary.
- B. Section 01 78 00 - Closeout Submittals.

**1.03 SUBSTANTIAL COMPLETION PROCEDURES**

- A. Pre-Substantial Completion Conference:
  - 1. General Contractor to schedule a Pre-substantial Completion Conference 15 days prior to the date of Substantial Completion, prepare an agenda with copies for the participants and preside over the meeting.
  - 2. Attendance Required: Contractor, Architect/Engineer and Owner.
  - 3. Minimum Agenda:
    - a. Schedule dates of Substantial Completion and Owner occupancy.
    - b. Schedule dates for Initial Punch Lists of respective Subcontractors to be produced.
    - c. Schedule date for written request for Substantial Completion.
    - d. Schedule target date for completion of Initial Punch List items.
    - e. Schedule delivery times for Owner-furnished items to be installed by Contractor, Owner's own forces or others under separate Contracts.
    - f. Schedule dates for Demonstration and Training of equipment and systems specified.
    - g. Schedule completion dates of testing and balancing reports for engineered Systems.
    - h. Scheduling and Sequencing of Construction operations around areas partially occupied.
    - i. Review job site security during transition of Owner occupancy.
    - j. Schedule dates for final inspections from authorities having jurisdiction for Occupancy Permits.
    - k. Review protocol for claims from potential move-in damage.
    - l. Review procedures for final cleaning.
    - m. Review potential concerns regarding environmental conditions.
  - 4. Record minutes and distribute copies within three days after meeting to participants and those affected by decisions made.
- B. Substantial Completion Procedures will be in accordance with the General Conditions of the Contract for Construction and include the following:
  - 1. When the Work or a portion of the Work is considered to be substantially complete, the Contractor inspects the project and prepares a comprehensive list of outstanding items to be completed or corrected, Initial Punch List.
  - 2. Contractor submits notice of Substantial Completion.
  - 3. Contractor completes items on the Initial Punch List.

4. Architect/Engineer inspects the project to verify substantial completion and prepares a Final Punch List.
5. Architect/Engineer prepares Certificate of Substantial Completion, acceptance is required by Owner and Contractor.

#### **1.04 FINAL COMPLETION PROCEDURES**

- A. Final Completion Procedures will be in accordance with the General Conditions of the Contract for Construction and include the following:
1. When items on Initial and Final Punch Lists are complete, the Contractor submits notice of final completion and final application for payment.
  2. Contractor submits Final Closeout Submittals as specified in Section 01 78 00.
  3. Architect inspects project and verifies the Work is acceptable and conforms with the Contract Documents.
  4. Architect processes final application for payment and closeout submittals.

#### **1.05 CORRECTION PERIOD**

- A. Correction Period commences on the date of Substantial Completion and expires two years from that date.
- B. Owner: document non-conforming or defective work over course of Correction Period. Notify Contractor in writing of nonconforming or defective work. Copy Architect/Engineer.
1. Life safety issues requiring immediate corrective work: Contact Contractor for action.
- C. Post Construction Walk Through:
1. Time: eleven months after the date of Substantial Completion convene a meeting on site.
  2. Attendees: Architect/Engineer, Owner's Representative, End User and Maintenance Staff.
  3. Minimum Agenda:
    - a. Review Owner's list of non-conforming or defective work.
    - b. Conduct a walk through of the building and grounds
    - c. Prepare a list of additional non-conforming or defective work items.
  4. Architect/Engineer:
    - a. Prepare written report of findings within two weeks of meeting.
    - b. Notify Contractor of impending corrective work requiring action.
    - c. Monitor execution of corrective Work.

**PART 2 PRODUCTS - NOT USED.**

**PART 3 EXECUTION - NOT USED.**

**END OF SECTION**

**SECTION 01 78 00  
CLOSEOUT SUBMITTALS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Project Record Documents.
- B. Operation and Maintenance Data.
- C. Warranties and bonds.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 30 00 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- B. Section 01 70 00 - Execution and Closeout Requirements: Contract closeout procedures.
- C. Individual Product Sections: Specific requirements for operation and maintenance data.
- D. Individual Product Sections: Warranties required for specific products or Work.

**1.03 SUBMITTALS**

- A. Project Record Documents: Submit documents to Architect/Engineer with claim for final Application for Payment.
- B. Operation and Maintenance Data:
  - 1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect/Engineer will review draft and return one copy with comments.
  - 2. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
  - 3. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect/Engineer comments. Revise content of all document sets as required prior to final submission.
  - 4. Submit two sets of revised final documents in final form within 10 days after final inspection.
- C. Warranties and Bonds:
  - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
  - 2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
  - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

## **PART 2 PRODUCTS - NOT USED**

## **PART 3 EXECUTION**

### **3.01 PROJECT RECORD DOCUMENTS**

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
  - 1. Drawings.
  - 2. Addenda.
  - 3. Change Orders and other modifications to the Contract.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress.
- E. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
  - 1. Field changes of dimension and detail.
  - 2. Details not on original Contract drawings.

### **3.02 OPERATION AND MAINTENANCE DATA**

- A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
- D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

### **3.03 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS**

- A. For Each Item of Equipment and Each System:
  - 1. Description of unit or system, and component parts.
  - 2. Identify function, normal operating characteristics, and limiting conditions.
  - 3. Complete nomenclature and model number of replaceable parts.
- B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.
- C. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.

- D. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- E. Provide servicing and lubrication schedule, and list of lubricants required.
- F. Include manufacturer's printed operation and maintenance instructions.
- G. Include sequence of operation by controls manufacturer.
- H. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- I. Provide control diagrams by controls manufacturer as installed.
- J. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- K. Include test and balancing reports.
- L. Additional Requirements: As specified in individual product specification sections.

#### **3.04 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS**

- A. Assemble operation and maintenance data into durable manuals for Owner's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.
- B. Where systems involve more than one specification section, provide separate tabbed divider for each system.
- C. Prepare instructions and data by personnel experienced in maintenance and operation of described products.
- D. Prepare data in the form of an instructional manual.
- E. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
- F. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- G. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect/Engineer, Consultants, Contractor and subcontractors, with names of responsible parties.
- H. Tables of Contents: List every item separated by a divider, using the same identification as on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified.
- I. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.
- J. Text: Manufacturer's printed data, or typewritten data on 24 pound paper.

K. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.

### **3.05 WARRANTIES AND BONDS**

- A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
- B. Verify that documents are in proper form, contain full information, and are notarized.
- C. Co-execute submittals when required.
- D. Retain warranties and bonds until time specified for submittal.

**END OF SECTION**

**SECTION 01 79 00  
DEMONSTRATION AND TRAINING**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Demonstration of products and systems where indicated in specific specification sections.
- B. Training of Owner personnel in operation and maintenance is required for:
  - 1. All software-operated systems.
  - 2. HVAC systems and equipment.
  - 3. Electrical systems and equipment.
  - 4. Items specified in individual product Sections.
- C. Training of Owner personnel in care, cleaning, maintenance, and repair is required for:
  - 1. Roofing, waterproofing, and other weather-exposed or moisture protection products.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 78 00 - Closeout Submittals: Operation and maintenance manuals.
- B. Other Specification Sections: Additional requirements for demonstration and training.

**1.03 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Training Plan: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees.
  - 1. Submit to Architect/Engineer for transmittal to Owner.
  - 2. Submit not less than two weeks prior to start of training.
  - 3. Revise and resubmit until acceptable.
  - 4. Include at least the following for each training session:
    - a. Identification, date, time, and duration.
    - b. Description of products and/or systems to be covered.
    - c. Name of firm and person conducting training; include qualifications.
    - d. Intended audience, such as job description.
    - e. Objectives of training and suggested methods of ensuring adequate training.
    - f. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc.
    - g. Media to be used, such as slides, hand-outs, etc.
    - h. Training equipment required, such as projector, projection screen, etc., to be provided by Contractor.
- C. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session.
  - 1. Include applicable portion of O&M manuals.
  - 2. Include copies of all hand-outs, slides, overheads, video presentations, etc., that are not included in O&M manuals.
  - 3. Provide one extra copy of each training manual to be included with operation and maintenance data.

## **1.04 QUALITY ASSURANCE**

- A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.
  - 1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.
  - 2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

## **PART 2 PRODUCTS - NOT USED**

## **PART 3 EXECUTION**

### **3.01 DEMONSTRATION - GENERAL**

- A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.
- B. Demonstration may be combined with Owner personnel training if applicable.
- C. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shut-down, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance.
  - 1. Perform demonstrations not less than two weeks prior to Substantial Completion.
  - 2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
- D. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
  - 1. Perform demonstrations not less than two weeks prior to Substantial Completion.

### **3.02 TRAINING - GENERAL**

- A. Conduct training on-site unless otherwise indicated.
- B. Owner will provide classroom and seating at no cost to Contractor.
- C. Provide training in minimum two hour segments.
- D. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge Contractor for personnel "show-up" time.
- E. Review of Facility Policy on Operation and Maintenance Data: During training discuss:
  - 1. The location of the O&M manuals and procedures for use and preservation; backup copies.
  - 2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific information.
  - 3. Typical uses of the O&M manuals.
- F. Product- and System-Specific Training:
  - 1. Review the applicable O&M manuals.

2. For systems, provide an overview of system operation, design parameters and constraints, and operational strategies.
  3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance.
  4. Provide hands-on training on all operational modes possible and preventive maintenance.
  5. Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures.
  6. Discuss common troubleshooting problems and solutions.
  7. Discuss any peculiarities of equipment installation or operation.
  8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage.
  9. Review recommended tools and spare parts inventory suggestions of manufacturers.
  10. Review spare parts and tools required to be furnished by Contractor.
  11. Review spare parts suppliers and sources and procurement procedures.
- G. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response within three days.

**END OF SECTION**

**SECTION 02 41 00  
DEMOLITION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Selective demolition of building elements for alteration purposes.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 10 00 - Summary: Limitations on Contractor's use of site and premises.
- B. Section 01 50 00 - Temporary Facilities and Controls: Protective barriers and waste removal.
- C. Section 01 70 00 - Execution and Closeout Requirements: Project conditions and existing construction to remain.

**1.03 REFERENCE STANDARDS**

- A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

**PART 2 PRODUCTS -- NOT USED**

**PART 3 EXECUTION**

**3.01 SCOPE**

- A. Remove portions of existing building equipment and surfaces to accommodate new materials and equipment installation.
- B. Remove all other paving and curbs within site boundaries.
- C. Remove other items indicated, for salvage, relocation, and recycling.

**3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS**

- A. Comply with other requirements specified in Section 01 70 00.
- B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
  - 1. Obtain required permits.
  - 2. Provide, erect, and maintain temporary barriers and security devices.
  - 3. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
  - 4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
  - 5. Do not close or obstruct roadways or sidewalks without permit.
  - 6. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.

- C. Protect existing structures and other elements that are not to be removed.
  1. Stop work immediately if adjacent structures appear to be in danger.
- D. If hazardous materials are discovered during removal operations, stop work and notify Architect/Engineer and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.
- E. Perform demolition in a manner that maximizes salvage and recycling of materials.
  1. Dismantle existing construction and separate materials.
  2. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.

### **3.03 SELECTIVE DEMOLITION FOR ALTERATIONS**

- A. Drawings showing existing construction are based on casual field observation and existing record documents only.
  1. Verify that construction are as shown.
  2. Report discrepancies to Architect/Engineer before disturbing existing installation.
  3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Separate areas in which demolition is being conducted from other areas that are still occupied.
- C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
- D. Remove existing work as indicated and as required to accomplish new work.
  1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
  2. Remove items indicated on drawings.
- E. Services (Including but not limited to HVAC, Plumbing, Fire Protection, and Electrical): Remove existing systems and equipment as indicated.
  1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
  2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
  3. See Section 01 10 00 for other limitations on outages and required notifications.
  4. Verify that abandoned services serve only abandoned facilities before removal.
  5. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- F. Protect existing work to remain.
  1. Prevent movement of structure; provide shoring and bracing if necessary.
  2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
  3. Repair adjacent construction and finishes damaged during removal work.
  4. Patch as specified for patching new work.

### **3.04 DEBRIS AND WASTE REMOVAL**

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

**END OF SECTION**

**SECTION 07 71 00  
ROOF SPECIALTIES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Prefabricated roof specialties, including roof portals.

**1.02 RELATED REQUIREMENTS**

**1.03 REFERENCE STANDARDS**

- A. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2001.
- B. NRCA (RM) - The NRCA Roofing Manual; 2018.
- C. NAAMM (MFM) - Metal Finishes Manual; National Association of Architectural Metal Manufacturers; 1988.
- D. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on shape of components, materials and finishes, anchor types and locations.
- C. Shop Drawings: Indicate configuration and dimension of components, adjacent construction, required clearances and tolerances, and other affected work.
- D. Manufacturer's Installation Instructions: Indicate special procedures, fasteners, supporting members, and perimeter conditions requiring special attention.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS - PIPE PENETRATION FLASHINGS**

- A. Conn-Fab Sales, Inc.: [www.connfab.com](http://www.connfab.com).
- B. The Pate Company: [www.patecurbs.com](http://www.patecurbs.com).
- C. Portals Plus; Single and Multi-Hole Portal Systems with integral insulated curb: [www.portalsplus.com](http://www.portalsplus.com).
- D. Substitutions: Or equal to or superior to product as approved by Owner and Architect See Section 01 60 00 - Product Requirements.

**2.02 COMPONENTS**

- A. Pipe/Stack Boots: TPO white material, conically stepped shape.
  - 1. Adapters: Manufacturer's standard molded EPDM rubber, appropriate to the size and shape of the penetration.

2. Clamps: Stainless steel pipe clamping rings for securing cap(s) and adapters around penetration(s).
- B. Prefabricated Roof Portal Systems: Consisting of a metal roof curb, plastic curb cover, and one or two rubber caps.
1. Model Number: (Based on Portals Plus): Single or Double Pipe portal with white cap/s and RC-2A prefabricated curb; 11 inches high.
  2. Curb: Fabricate of 18 gauge, galvanized steel sheet complying with ASTM A653; straight sided, with integral base plate. Mitre and weld corners to form unitized construction. Coat welded areas with zinc rich paint.
    - a. Insulation: 1.5 inch thick, 3 pound density fiberglass.
    - b. Nailer: 2x2 (nom.) softwood; factory attached with concealed screws.
  3. Curb Cover: Molded ABS with laminated acrylic UV-resistant coating. Fabricate crowned to shed water, with integral counterflashing and drip edge, and pre-punched holes for field attachment to curb nailer.
    - a. Portal Opening(s): Molded integral to cover, with double weatherseal bead at collar to accept manufacturer's standard molded rubber cap, forming a weatherproof seal without additional clamps or sealant.
  4. Cap(s): Molded EPDM rubber sized to fit collared opening(s) in curb cover, with molded weatherseal grooves to fit weatherseal beads on opening collar(s). Provide manufacture's standard cap(s) and adapters of the appropriate size and shape to properly seal penetration(s).
  5. Clamps: Stainless steel pipe clamping rings for securing cap(s) around penetration(s).

## **2.03 ACCESSORIES**

- A. Adhesive for Anchoring to Roof Membrane: Compatible with roof membrane and approved by roof membrane manufacturer.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that deck, curbs, roof membrane, base flashing, and other items affecting work of this Section are in place and positioned correctly.

### **3.02 INSTALLATION**

- A. Install components in accordance with manufacturer's instructions.
- B. Conform to drawing details included in NAAMM, NRCA and SMACNA manuals.
- C. Coordinate installation of components of this section with installation of stacks, vents, piping, conduits and other items penetrating roof membrane.
- D. Coordinate installation of components of this section with installation of roofing membrane and base flashings.
- E. Coordinate installation of sealants and roofing cement with work of this section to ensure water tightness.

**END OF SECTION**

**SECTION 07 84 00  
FIRESTOPPING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Firestopping materials.
- B. Firestopping of all penetrations of and joints in fire rated assemblies, whether indicated on drawings or not, and other openings indicated.
- C. Smoke-stopping of all penetrations of and joints in smoke partitions, whether indicated on drawings or not, and other openings indicated.

**1.02 REFERENCE STANDARDS**

- A. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2015.
- B. ASTM E814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops; 2013a.
- C. ITS (DIR) - Directory of Listed Products; current edition.
- D. FM 4991 - Approval Standard for Firestop Contractors; 2013.
- E. FM (AG) - FM Approval Guide; current edition.
- F. UL (FRD) - Fire Resistance Directory; Current Edition.

**1.03 DEFINITIONS**

- A. Assembly: Particular arrangement of materials specific to given type of construction described or detailed in referenced documents.
- B. Barriers: Time rated fire walls, smoke barrier walls, time rated ceiling/floor assemblies and structural floors.
- C. Firestopping: Methods and materials applied in penetrations and unprotected openings to limit spread of heat, fire gasses and smoke.
- D. Penetration: Opening or foreign material passing through or into barrier or structural floor such that full thickness of rated materials is not obtained.
- E. Joint: Interruption to a fire-rated assembly occurring at interface between 1) adjacent sections of wall, 2) intersecting walls, 3) top of wall and ceiling, structural floor or roof deck, 4) wall and edge of structural floor, 5) adjacent sections of structural floor.
- F. System: Specific products and applications, classified and numbered by Underwriters Laboratories, Inc. to close specific barrier penetrations and joints.
- G. Sleeve: Metal fabrication or pipe section extending through thickness of barrier and used to permanently guard penetration. Sleeves are described as part of penetrating system in other sections and may or may not be required.

## **1.04 SYSTEM DESCRIPTION**

### **A. Design Requirements:**

1. Fire-rated construction: Maintain barrier and structural floor fire resistance ratings including resistance to cold smoke at all penetrations, connections with other surfaces or types of construction, at separations required to permit building movement and sound or vibration absorption, and at other construction gaps.
2. Smoke barrier construction: Maintain barrier and structural floor resistance to cold smoke at all penetrations, connections with other surfaces and types of construction and at all separations required to permit building movement and sound or vibration absorption, and at other construction gaps.

## **1.05 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.
  1. Provide manufacturer's qualified engineering judgements for non-standard applications.
- C. Product Data: Provide data on product characteristics, performance ratings, and limitations.
- D. Manufacturer's Installation Instructions: Indicate preparation and installation instructions.
- E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

## **1.06 QUALITY ASSURANCE**

- A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
  1. Listing in UL (FRD), FM (AG), or ITS (DIR) will be considered as constituting an acceptable test report.
  2. Submission of actual test reports is required for assemblies for which none of the above substantiation exists.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Installer Qualifications: Company specializing in performing the work of this section and:
  1. Approved by Factory Mutual Research under FM Standard 4991, Approval of Firestop Contractors.
  2. Verification of minimum three years documented experience installing work of this type.
  3. Verification of at least five satisfactorily completed projects of comparable size and type.
  4. Licensed by local authorities having jurisdiction (AHJ).
  5. Approved by firestopping manufacturer.

## **1.07 MOCK-UP**

- A. Install one firestopping assembly representative of each fire rating design required on project.
  1. Where one design may be used for different penetrating items or in different wall constructions, install one assembly for each different combination.

- B. Obtain approval of authorities having jurisdiction (AHJ) before proceeding.
- C. If accepted, mock-up will represent minimum standard for the Work.
- D. If accepted, mock-up may remain as part of the Work. Remove and replace mock-ups not accepted.

## **1.08 DELIVERY, STORAGE AND HANDLING**

- A. Deliver products in original, unopened packaging with legible manufacturer's identification.
- B. Coordinate delivery with scheduled installation date to minimize storage time at site.
- C. Store materials in a clean, dry, ventilated location. Protect materials from freezing if required by manufacturer.

## **1.09 FIELD CONDITIONS**

- A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation. Maintain minimum temperature before, during, and for 3 days after installation of materials.
- B. Provide ventilation in areas where solvent-cured materials are being installed.

## **PART 2 PRODUCTS**

### **2.01 FIRESTOPPING ASSEMBLIES**

- A. Firestopping: Any material meeting requirements.
  - 1. Fire Ratings: Use any system listed by UL or tested in accordance with ASTM E814 or ASTM E119 that has F Rating equal to fire rating of penetrated assembly and T Rating Equal to F Rating and that meets all other specified requirements.

### **2.02 MATERIALS**

- A. Acceptable Manufacturers: As listed in UL (FRD) for specific UL Design Number.
- B. Fill, Void or Cavity Materials: Conform to UL (FRD) - XHHW.
- C. Firestop Devices: Conform to UL (FRD) - XHJI.
- D. Forming Materials: Conform to UL (FRD) - XHKU.
- E. Mechanical Joint Assemblies: Conform to UL (FRD) - XHLP.
- F. Packing Material: As required by specific UL Design Number for joint system or through-penetration firestop system.
- G. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Type required for tested assembly design.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify openings are ready to receive the work of this section.

1. Verify barrier joints and penetrations are properly sized and in suitable condition for application of materials.

### **3.02 PREPARATION**

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter that could adversely affect bond of firestopping material.
- B. Remove incompatible materials that could adversely affect bond.

### **3.03 INSTALLATION**

- A. Install materials in manner described in UL (FRD) or fire test report and in accordance with manufacturer's instructions, completely closing openings.
- B. Do not cover installed firestopping until inspected by authorities having jurisdiction.
- C. Install labeling required by code.

### **3.04 CLEANING AND PROTECTION**

- A. Protect adjacent surfaces from damage by material installation.
- B. Patch or replace firestopping damaged by work of other sections.

**END OF SECTION**

**SECTION 09 91 13  
EXTERIOR PAINTING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Surface preparation.
- B. Field application of paints, stains, and varnishes.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
- D. Do Not Paint or Finish the Following Items:
  - 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
  - 2. Items indicated to receive other finishes.
  - 3. Items indicated to remain unfinished.
  - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.

**1.02 DEFINITIONS**

- A. Conform to ASTM D16 for interpretation of terms used in this section.

**1.03 REFERENCE STANDARDS**

- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2014.
- B. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition, [www.paintinfo.com](http://www.paintinfo.com).
- C. SSPC-SP 1 - Solvent Cleaning; 2015.
- D. SSPC-SP 2 - Hand Tool Cleaning; 1982 (Ed. 2004).
- E. SSPC-SP 6 - Commercial Blast Cleaning; 2007.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
  - 2. MPI product number (e.g. MPI #41).
  - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

## **1.06 FIELD CONDITIONS**

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- E. Minimum Application Temperature for Varnish Finishes: 65 degrees F for exterior, unless required otherwise by manufacturer's instructions.
- F. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
  - 1. PPG Paints: [www.ppgpaints.com/#sle](http://www.ppgpaints.com/#sle).
  - 2. Pratt & Lambert Paints: [www.prattandlambert.com/#sle](http://www.prattandlambert.com/#sle).
  - 3. Sherwin-Williams Company: [www.sherwin-williams.com/#sle](http://www.sherwin-williams.com/#sle).
  - 4. Or equal to or superior to product as approved by Owner and Architect.

### **2.02 PAINTS AND FINISHES - GENERAL**

- A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.
  - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
  - 2. Supply each paint material in quantity required to complete entire project's work from a single production run.
  - 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

### **2.03 PAINT SYSTEMS - EXTERIOR**

- A. Paint ME-OP-3A - Ferrous Metals, Unprimed, Alkyd, 3 Coat:

1. One coat of alkyd primer.
  2. Semi-gloss: Two coats of alkyd enamel; MPI #81.
- B. Paint MgE-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
1. One coat galvanize primer.
  2. Gloss: Two coats of alkyd enamel; MPI #81.

## **2.04 PRIMERS**

- A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
1. Anti-Corrosive Alkyd Primer for Metal; MPI #79.
  2. Interior/Exterior Quick Dry Alkyd Primer for Metal; MPI #76.
  3. Water Based Primer for Galvanized Metal; MPI #134.

## **2.05 ACCESSORY MATERIALS**

- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials.
- D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:

### **3.02 PREPARATION**

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing paints or finishes that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Galvanized Surfaces:

1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
2. Prepare surface according to SSPC-SP 2.

H. Ferrous Metal:

1. Solvent clean according to SSPC-SP 1.
2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.

### **3.03 APPLICATION**

- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

### **3.04 COLOR SCHEDULE**

- A. Existing Roof Hatch: SW #7071 - Gray Screen.

**END OF SECTION**

**SECTION 23 05 53**  
**IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

A. Nameplates.

**1.02 REFERENCE STANDARDS**

A. ASTM D709 - Standard Specification for Laminated Thermosetting Materials; 2017.

**PART 2 PRODUCTS**

**2.01 IDENTIFICATION APPLICATIONS**

A. Air Handling Units: Nameplates.

**2.02 NAMEPLATES**

A. Manufacturers:

1. Advanced Graphic Engraving, LLC.
2. Brimar Industries, Inc.
3. Craftmark Pipe Markers.
4. Kolbi Pipe Marker Co.
5. Seton Identification Products.
6. Or equal to or superior to product as approved by Owner and Architect.

B. Letter Color: White.

C. Letter Height: 1/4 inch.

D. Background Color: Black.

E. Plastic: Comply with ASTM D709.

**PART 3 EXECUTION**

**3.01 PREPARATION**

A. Degrease and clean surfaces to receive adhesive for identification materials.

**3.02 INSTALLATION**

A. Install nameplates with corrosive-resistant mechanical fasteners, or adhesive. Apply with sufficient adhesive to ensure permanent adhesion and seal with clear lacquer.

**END OF SECTION**

**SECTION 23 05 93**  
**TESTING, ADJUSTING, AND BALANCING FOR HVAC**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

A. Testing, adjustment, and balancing of air systems.

**1.02 REFERENCE STANDARDS**

- A. AABC MN-1 - AABC National Standards for Total System Balance; Associated Air Balance Council; 2002.
- B. ASHRAE Std 111 - Measurement, Testing, Adjusting, and Balancing of Building HVAC Systems; 2008.
- C. NEBB (TAB) - Procedural Standards for Testing Adjusting and Balancing of Environmental Systems; 2015, Eighth Edition.
- D. SMACNA (TAB) - HVAC Systems Testing, Adjusting and Balancing; 2002.

**1.03 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.
  - 1. Revise TAB plan to reflect actual procedures and submit as part of final report.
  - 2. Submit draft copies of report for review prior to final acceptance of Project. Provide final copies for Architect/Engineer and for inclusion in operating and maintenance manuals.
  - 3. Include actual instrument list, with manufacturer name, serial number, and date of calibration.
  - 4. Form of Test Reports: Where the TAB standard being followed recommends a report format use that; otherwise, follow ASHRAE Std 111.
  - 5. Units of Measure: Report data in both I-P (inch-pound) and SI (metric) units.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 GENERAL REQUIREMENTS**

- A. Perform total system balance in accordance with one of the following:
  - 1. AABC MN-1, AABC National Standards for Total System Balance.
  - 2. ASHRAE Std 111, Practices for Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation, Air-Conditioning, and Refrigeration Systems.
  - 3. NEBB Procedural Standards for Testing Adjusting Balancing of Environmental Systems.
  - 4. SMACNA (TAB).
- B. Begin work after completion of systems to be tested, adjusted, or balanced and complete work prior to Substantial Completion of the project.
- C. TAB Agency Qualifications:

1. Company specializing in the testing, adjusting, and balancing of systems specified in this section.
  2. Certified by one of the following:
    - a. AABC, Associated Air Balance Council: [www.aabchq.com](http://www.aabchq.com); upon completion submit AABC National Performance Guaranty.
    - b. NEBB, National Environmental Balancing Bureau: [www.nebb.org/#sle](http://www.nebb.org/#sle).
    - c. TABB, The Testing, Adjusting, and Balancing Bureau of National Energy Management Institute: [www.tabbcertified.org/#sle](http://www.tabbcertified.org/#sle).
- D. TAB Supervisor Qualifications: Certified by same organization as TAB agency.

### **3.02 EXAMINATION**

- A. Verify that systems are complete and operable before commencing work. Ensure the following conditions:
1. Systems are started and operating in a safe and normal condition.
  2. Temperature control systems are installed complete and operable.
  3. Proper thermal overload protection is in place for electrical equipment.
  4. Final filters are clean and in place. If required, install temporary media in addition to final filters.
  5. Duct systems are clean of debris.
  6. Fans are rotating correctly.
  7. Air coil fins are cleaned and combed.
  8. Access doors are closed and duct end caps are in place.
  9. Duct system leakage is minimized.
- B. Submit field reports. Report defects and deficiencies that will or could prevent proper system balance.

### **3.03 ADJUSTMENT TOLERANCES**

- A. Air Handling Systems: Adjust to within plus or minus 5 percent of design for supply systems and plus or minus 10 percent of design for return and exhaust systems.

### **3.04 RECORDING AND ADJUSTING**

- A. Ensure recorded data represents actual measured or observed conditions.
- B. Permanently mark settings of valves, dampers, and other adjustment devices allowing settings to be restored. Set and lock memory stops.
- C. After adjustment, take measurements to verify balance has not been disrupted or that such disruption has been rectified.
- D. Leave systems in proper working order, replacing belt guards, closing access doors, closing doors to electrical switch boxes, and restoring thermostats to specified settings.

### **3.05 AIR SYSTEM PROCEDURE**

- A. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities at site altitude.

- B. Make air quantity measurements in ducts by Pitot tube traverse of entire cross sectional area of duct.
- C. Use volume control devices to regulate air quantities only to extent that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and splitters.
- D. Vary total system air quantities by adjustment of fan speeds. Provide drive changes required. Vary branch air quantities by damper regulation.
- E. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan. Make allowances for 50 percent loading of filters.
- F. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions.
- G. Measure temperature conditions across outside air, return air, and exhaust dampers to check leakage.
- H. Where modulating dampers are provided, take measurements and balance at extreme conditions. Balance variable volume systems at maximum air flow rate, full cooling, and at minimum air flow rate, full heating.
- I. For variable air volume system powered units set volume controller to air flow setting indicated. Confirm connections properly made and confirm proper operation for automatic variable air volume temperature control.

### **3.06 SCOPE**

- A. Test, adjust, and balance the following:
  - 1. Packaged Roof Top Heating/Cooling Units.

**END OF SECTION**

**SECTION 23 09 13**  
**INSTRUMENTATION AND CONTROL DEVICES FOR HVAC**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Miscellaneous accessories.
- B. Rough-in, wiring to, and final connections to products specified in this Section.

**1.02 RELATED REQUIREMENTS**

- A. Input/Output Sensors:
- B. Section 26 05 00 - Basic Electrical Requirements: Requirements for conduit rough-in for products specified in this Section.

**1.03 REFERENCE STANDARDS**

- A. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2014.
- B. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; 2018.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide description and engineering data for each control system component. Include sizing as requested. Provide data for each system component and software module.
- C. Shop Drawings: Indicate complete operating data, system drawings, wiring diagrams, and written detailed operational description of sequences. Submit schedule of valves indicating size, flow, and pressure drop for each valve. For automatic dampers indicate arrangement, velocities, and static pressure drops for each system.
- D. Project Record Documents: Record actual locations of control components, including panels, thermostats, and sensors. Accurately record actual location of control components, including panels, thermostats, and sensors.
- E. Operation and Maintenance Data: Include inspection period, cleaning methods, recommended cleaning materials, and calibration tolerances.
- F. Warranty: Submit manufacturers warranty and ensure forms have been filled out in Owner s name and registered with manufacturer.

**1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum three years experience.

## **PART 2 PRODUCTS**

### **2.01 EQUIPMENT - GENERAL**

- A. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

### **2.02 CONTROL PANELS**

- A. Unitized cabinet type for each system under automatic control with relays and controls mounted in cabinet and temperature indicators, pressure gauges, pilot lights, push buttons and switches flush on cabinet panel face.
- B. NEMA 250, general purpose utility enclosures with enamelled finished face panel.
- C. Provide common keying for all panels.

### **2.03 INPUT/OUTPUT SENSORS**

- A. Temperature Sensors:
  - 1. Use thermistor or RTD type temperature sensing elements with characteristics resistant to moisture, vibration, and other conditions consistent with the application without affecting accuracy and life expectancy.
  - 2. Construct RTD of nickel or platinum with base resistance of 1000 ohms at 70 degrees F.
  - 3. 100 ohm platinum RTD is acceptable if used with project DDC controllers.
  - 4. Temperature Sensing Device: Compatible with project DDC controllers.
  - 5. Performance Characteristics:
    - a. RTD:
      - 1) Room Sensor Accuracy: Plus/minus 0.50 degrees F minimum.
      - 2) Duct Averaging Accuracy: Plus/minus 0.50 degrees F minimum.
      - 3) All Other Accuracy: Plus/minus 0.75 degrees F minimum.
    - b. Thermistor:
      - 1) Accuracy (All): Plus/minus 0.36 degrees F minimum.
        - a) Range: Minus 25 degrees F through 122 degrees F minimum.
        - b) Heat Dissipation Constant: 2.7 mW per degree C.
      - 2) Temperature Transmitter:
        - a) Accuracy: 0.10 degree F minimum or plus/minus 0.20 percent of span.
        - b) Output: 4 to 20 mA.
      - 3) Sensing Range:
        - a) Provide limited range sensors if required to sense the range expected for a respective point.
        - b) Use RTD type sensors for extended ranges beyond minus 30 degrees F to 230 degrees F.
        - c) Use temperature transmitters in conjunction with RTD's when RTD's are incompatible with DDC controller direct temperature input.
    - c. Wire Resistance:
      - 1) Use appropriate wire size to limit temperature offset due to wire resistance to 1.0 degree F or use temperature transmitter when offset is greater than 1.0 degree F due to wire resistance.

- 2) Compensate for wire resistance in software input definition when feature is available in the DDC controller.

B. Humidity Sensors:

C. Static Pressure (Air Pressure) Sensors:

1. Unidirectional with ranges not exceeding 150 percent of maximum expected input.
2. Temperature compensate with typical thermal error or 0.06 percent of full scale in temperature range of 40 to 100 degrees F.
3. Accuracy: One percent of full scale with repeatability 0.3 percent.
4. Output: 0 - 5 vdc with power at 12 to 28 vdc.

D. Equipment Operation Sensors:

1. Status Inputs for Fans: Differential pressure switch with adjustable range of 0 to 5 inches wg.
2. Status Inputs for Pumps: Differential pressure switch piped across pump with adjustable pressure differential range of 8 to 60 psi.
3. Status Inputs for Electric Motors: Current sensing relay with current transformers, adjustable and set to 175 percent of rated motor current.

## 2.04 TRANSMITTERS

A. Building Static Pressure Transmitter:

1. One pipe, differential type with temperature compensation, scale range 0.01 to 6.0 inch wg positive or negative, and sensitivity of 0.0005 inch wg. Transmit electronic signal to receiver with matching scale range.

B. Temperature Transmitters:

1. One pipe, directly proportional output signal to measured variable, linearity within plus or minus 1/2 percent of range for 200 degree F span and plus or minus 1 percent for 50 degree F span, with 50 degrees F. temperature range, compensated bulb, averaging capillary, or rod and tube operation on 20 psig input pressure and 3 to 15 psig output.

C. Humidity Transmitters:

1. One pipe, directly proportioned output signal to measured variable, linearity within plus or minus 1 percent for 70 percent relative humidity span, capable of withstanding 95 percent relative humidity without loss of calibration.

## 2.05 LOW COIL INPUT RELAYS

A. Manufacturers

1. Functional Devices, Inc.; RIB.
2. Or equal to or superior to product as approved by Owner and Architect.

B. Enclosed relay Hi/Low separation 20 amp DPDT +Override.

C. UL Listed, UL916, UL864, C-UL and UL Accepted for use in Plenum, NEMA 1.

D. Power input: 120 Vac, 50-60 Hz or 208-277 Vac, 50-60 Hz as applicable.

E. Control Input: 5-25 Vac/dc, 50-60 Hz.

F. Relay status: LED on = activated.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that systems are ready to receive work.
- C. Beginning of installation means installer accepts existing conditions.
- D. Coordinate installation of system components with installation of mechanical systems equipment such as air handling units and air terminal units.

### **3.02 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.

**END OF SECTION**

**SECTION 23 11 23  
FACILITY NATURAL-GAS PIPING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Pipe, pipe fittings, valves, and connections for natural gas piping systems.

**1.02 RELATED REQUIREMENTS**

- A. Section 23 74 13 - Packaged Outdoor Central-Station Air-Handling Units.

**1.03 REFERENCE STANDARDS**

- A. ASME B16.3 - Malleable Iron Threaded Fittings: Classes 150 and 300; 2011.
- B. ASME B31.1 - Power Piping; 2014.
- C. ASME B31.9 - Building Services Piping; 2014.
- D. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2012.
- E. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- F. ASTM A234/A234M - Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service; 2015.

**1.04 QUALITY ASSURANCE**

- A. Perform work in accordance with applicable codes.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
- B. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

**PART 2 PRODUCTS**

**2.01 NATURAL GAS PIPING, ABOVE GRADE**

- A. Steel Pipe: ASTM A53/A53M, Schedule 40 black.
  - 1. Fittings: ASME B16.3, malleable iron, or ASTM A234/A234M, wrought steel welding type.
  - 2. Joints: Threaded or welded to ASME B31.1.

**2.02 FLANGES, UNIONS, AND COUPLINGS**

- A. Unions for Pipe Sizes 3 Inches and Under:
  - 1. Ferrous pipe: Class 150 malleable iron threaded unions.
  - 2. Copper tube and pipe: Class 150 bronze unions with soldered joints.
- B. Flanges for Pipe Size Over 1 Inch:

1. Ferrous Pipe: Class 150 malleable iron threaded or forged steel slip-on flanges; preformed neoprene gaskets.

## **2.03 PIPE HANGERS AND SUPPORTS**

- A. Provide hangers and supports that comply with MSS SP-58.
  1. Rooftop Supports for Low-Slope Roofs: Steel pedestals with bases that rest on top of roofing membrane, not requiring any attachment to the roof structure and not penetrating the roofing assembly, with support fixtures as specified; and as follows:
    - a. Bases: High density polypropylene.
    - b. Base Sizes: As required to distribute load sufficiently to prevent indentation of roofing assembly.
    - c. Steel Components: Stainless steel, or carbon steel hot-dip galvanized after fabrication in accordance with ASTM A123/A123M.
    - d. Attachment/Support Fixtures: As recommended by manufacturer, same type as indicated for equivalent indoor hangers and supports; corrosion resistant material.
    - e. Height: Provide minimum clearance of 6 inches under pipe to top of roofing.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Remove scale and dirt, on inside and outside, before assembly.
- B. Prepare piping connections to equipment with flanges or unions.

### **3.02 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
- C. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.
- D. Pipe Hangers and Supports:
  1. Install in accordance with ASME B31.9.
  2. Support horizontal piping as indicated.

### **3.03 APPLICATION**

- A. Install unions downstream of valves and at equipment or apparatus connections.
- B. Provide plug valves in natural gas systems for shut-off service.

### **3.04 SCHEDULES**

- A. Pipe Hanger Spacing:
  1. Metal Piping:
    - a. Pipe Size: 1/2 inches to 1-1/4 inches:
      - 1) Maximum Hanger Spacing: 6.5 ft.
      - 2) Hanger Rod Diameter: 3/8 inches.
    - b. Pipe Size: 1-1/2 inches to 2 inches:
      - 1) Maximum Hanger Spacing: 10 ft.

2) Hanger Rod Diameter: 3/8 inch.

**END OF SECTION**

**SECTION 23 74 13**  
**PACKAGED OUTDOOR CENTRAL-STATION AIR-HANDLING UNITS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Packaged roof top unit.
- B. Unit controls.

**1.02 RELATED REQUIREMENTS**

- A. Section 26 27 17 - Equipment Wiring: Electrical characteristics and wiring connections.

**1.03 REFERENCE STANDARDS**

- A. AFBMA 9 - Load Ratings for Fatigue Life for Ball Bearings.
- B. AMCA 99 - Standards Handbook
- C. AMCA 210 - Laboratory Methods of Testing Fans for Rating Purposes.
- D. AMCA 500 - Test Methods for Louver, Dampers and Shutters.
- E. AHRI 340/360 - Unitary Large Equipment.
- F. NEMA MG1 - Motors and Generators.
- G. National Electrical Code.
- H. NFPA 70 - National Fire Protection Agency.
- I. SMACNA - HVAC Dust Construction Standards - Metal and Flexible.
- J. UL 900 - Test Performance of Air Filter Units.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide capacity and dimensions of manufactured products and assemblies required for this project. Indicate electrical service with electrical characteristics and connection requirements, and duct connections.
- C. Shop Drawings: Indicate capacity and dimensions of manufactured products and assemblies required for this project. Indicate electrical service with electrical characteristics and connection requirements, and duct connections.
- D. Manufacturer's Instructions: Indicate assembly, support details, connection requirements, and include start-up instructions.
- E. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listing.
- F. Factory start-up forms.

- G. Warranty: Submit manufacturer's warranty and ensure forms have been filled out in Owner's name and registered with manufacturer.
- H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
  - 2. Extra Filters: One set for each unit.

### **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Protect units from physical damage by storing off site until roof mounting curbs are in place, ready for immediate installation of units.

### **1.07 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide a five year warranty to include coverage for refrigeration compressors.

## **PART 2 PRODUCTS**

### **2.01 PACKAGED ROOF TOP UNITS**

- A. Manufacturers:
  - 1. Trane.
  - 2. Daikin.
  - 3. Substitutions: Or equal to or superior to product as approved by Owner and Architect.
- B. General Description:
  - 1. Unit furnished and installed shall be outdoor packaged rooftop (s) as scheduled on contract documents and these specifications. Cooling capacity ratings shall be based on AHRI Standard. Unit shall consist of insulated weather-tight casing with compressor, air-cooled condenser coil, condenser fans, evaporator coil, return-air filters, supply motors and unit controls.
  - 2. Unit shall be 100% factory run tested and fully charged with R-410A.
  - 3. Unit shall have labels, decals, and/or tags to aid in the service of the unit and indicate caution areas.
  - 4. Units shall be dedicated downflow or dedicated horizontal airflow as manufactured.
  - 5. Wiring internal to the unit shall be colored and numbered for identification.
- C. Unit Casing
  - 1. Cabinet: Galvanized steel, phosphatized, and finished with a pre-applied baked polyurethane enamel Structural members shall be 16 gauge with access doors and removable panels of minimum 20 gauge.
  - 2. Units cabinet surface shall be tested 672 hours in salt spray test in compliance with ASTM B117.
  - 3. Cabinet construction shall allow for all service/ maintenance from one side of the unit.

4. Cabinet top cover shall be one piece construction or where seams exist, it shall be double-hemmed and gasket-sealed.
5. Access Panels: Water- and air-tight panels with handles shall provide access to filters, heating section, return air fan section, supply air fan section, evaporator coil section, and unit control section.
6. Downflow unit's base pans shall have a raised 1 1/8 inch high lip around the supply and return openings for water integrity.
7. Provide 1/2 inch foil faced, fire retardant permanent, odorless glass fiber material. All edges captured so that there is no insulation exposed in the air stream.
8. Provide openings either on side of unit or thru the base for power, control and gas connections.
9. The base of the unit shall have provisions for forklift and crane lifting

#### D. FANS AND MOTORS

1. Provide evaporator fan section with forward curved, double width, double inlet, centrifugal type fan.
2. Provide self-aligning, grease lubricated, ball or sleeve bearings with permanent lubrication fittings.
3. Provide units 12 1/2 tons and above with belt driven, supply fans with adjustable motor sheaves.
4. Outdoor and Indoor Fan shall be permanently lubricated and have internal thermal overload protection.
5. Outdoor fans shall be direct drive, statically and dynamically balanced, draw through in the vertical discharge position.
6. Provide shafts constructed of solid hot rolled steel, ground and polished, with key-way, and protectively coated with lubricating oil.

#### E. Single Zone Variable Air Volume

1. Provide evaporator fan section with forward curved, double width, double inlet, centrifugal type fan.
2. Provide self-aligning, grease lubricated, ball or sleeve bearings with permanent lubrication fittings.
3. Unit shall be provided with VFD (Variable Frequency Drive) on Indoor fan motor. VFD shall change fan speed according to mode of operation. During cooling mode, fan shall modulate to maintain space temperature. The compressor shall operate to control discharge air temperature. This operation shall be standard with SZVAV offering. During heating operation, single zone control will be allowed with modulating gas heat only. All other heat operations shall be as constant volume heating control..
4. Unit shall be provided with bypass mode operation. This operation is field wired to bypass VFD in the event of VFD failure.

#### F. Gas Fired Heating Section

1. Completely assembled and factory installed heating system shall be integral to unit, UL or CSA approved specifically for outdoor applications for use downstream from refrigerant cooling coils. Threaded connection with plug or cap provided.
2. Heating section shall be factory run tested prior to shipment.
3. Gas Burner shall be forced combustion type power burner, negative pressure gas valve, manual shut-off, hot surface ignition, and flame sensing safety control.

4. Gas Burner Safety Controls: Provide safety controls for the proving of combustion air prior to ignition, and continuous flame supervision. Upon a failure to ignite, two attempts of ignition will occur before lockout of the ignition system.
5. Combustion blower shall be centrifugal type fan with built-in thermal overload protection on fan motor.
6. Heat Exchanger: 304 stainless steel with 10 year warranty.
7. Limit controls: High temperature limit controls will shut off gas flow in the event of excessive temperatures resulting from restricted indoor airflow or loss of indoor airflow.
8. Units shall be suitable for use with natural gas or propane (field-installed kit) and also comply with the California Requirement for low NOx emission.

#### G. Evaporator Coil

1. Provide configured aluminum fin surface mechanically bonded to copper tubing coil.
2. Provide an independent expansion device for each refrigeration circuit. Factory pressure test at 450 psig and leak test at 200 psig.
3. Provide drain pan for base of evaporator coil constructed of PVC or galvanized steel with external connections.
4. Unit shall include a condensate overflow switch to shut the unit down in the event that a clogged condensate drain line prevents proper condensate removal from the unit.

#### H. Condenser Section

1. Provide vertical discharge, direct drive fans with aluminum blades. Fans shall be statically balanced. Motors shall be permanently lubricated, with integral thermal overload protection in a weather tight casing.
2. Microchannel condenser to be standard on all units
3. Provide tool-less factory installed corrosion resistant louvered hail/vandalism guards to protect condenser coils from hail or physical damage.

#### I. Refrigeration System

1. Compressor(s): Provide direct drive, hermetic type, scroll compressor with centrifugal type oil pump. Motor shall be suction gas cooled and have internal spring isolation. Compressors shall include crankcase heaters, internal pressure relief, temperature and current sensitive overloads.
2. Units shall have cooling capabilities down to 0 degree F as standard. For field-installed low ambient accessory, the manufacturer shall provide a factory-authorized service technician that will assure proper installation and operation.
3. Provide each unit with dual refrigerant circuits factory-supplied completely piped with liquid line filter-drier, suction and liquid line pressure ports.
4. Provide ultra-high efficiency with eflex variable speed technology.
5. Eflex variable speed compressor shall be capable of speed modulation from 15Hz to a maximum of 60Hz. The minimum unit capacity shall be 25% of full load. The compressor motor shall be a permanent magnet type. Each variable speed compressor shall be matched with a specially designed refrigerant cooled, variable frequency drive which modulates the speed of the compressor motor and provides several compressor protection functions.

#### J. Exhaust/Return Section

1. Provide barometric relief gravity type dampers to operate in conjunction with economizer to provide exhaust
2. Provide, on downflow units, a factory supplied field installed power exhaust assembly that shall assist the barometric relief damper in the economizer in relieving building pressurization.

K. Outdoor Air Section

1. Provide differential enthalpy economizer with Fault Detection and Diagnostics.
2. Provide adjustable minimum position control located in the economizer section of the unit.
3. Provide spring return motor for outside air damper closure during unit shutdown or power interruption.

L. Operating Controls

1. Provide factory-wired roof top units with 24 volt control circuit with control transformers, contactor pressure lugs or terminal block for power wiring. Units shall have single point power connections. Field wiring of zone controls to be NEC Class II.
2. Provide microprocessor unit-mounted control which when used with an electronic zone sensor provides proportional integral room control. This UCM shall perform all unit functions by making all heating, cooling and ventilating decisions through resident software logic.
3. Provide factory-installed indoor evaporator defrost control to prevent compressor slugging by interrupting compressor operation.
4. Provide a anti-cycle timing and minimum on/off between stages timing in the microprocessor.
5. Economizer Preferred Cooling - Compressor operation is integrated with economizer cycle to allow mechanical cooling when economizer is not adequate to satisfy zone requirements. Compressors are enabled if space temperature is recovering to cooling setpoint at a rate of less than 0.2 degrees per minute. Compressor low ambient lockout overrides this function.
6. SZ VAV: Provide all necessary controls to operate a rooftop unit based on maintaining two temperature setpoints: discharge air and zone. During one zone vav cooling, the unit will maintain zone cooling setpoint by modulating the supply fan speed more or less to meet zone load demand; and the unit will maintain discharge temperature to the discharge cooling setpoint by modulating economizer if available and modulating dx cooling.
7. Clogged filter indication: Provide factory installed differential pressure switch to indicate filter replacement status. Differential pressure switch shall cause a contact closure to display a service indication and unit will continue to operate normally.
8. Discharge Air Temperature Sensing: Provides true discharge air temperature sensing in heating models. This sensor is a status indicator readable through Tracer or Tracker. For Microprocessor controlled units only.
9. Provide programmable electronic microcomputer based zone control.
  - a. Zone control shall incorporate:
    - 1) Automatic changeover from heating to cooling.
    - 2) Set-up for at least 2 - sets of separate heating and cooling temperatures per day.
    - 3) Instant override of setpoint for continuous or timed period from one hour to 31 days.
    - 4) Switch selection features including Fahrenheit display, 12 or 24 hour clock, keyboard disable, remote sensor, fan on-auto.
  - b. Zone sensor display shall be capable of:
    - 1) Time of day.
    - 2) Actual room temperature.

- 3) Programmed temperature.
  - 4) Programmed time.
  - 5) Duration of timed override.
  - 6) Day of week.
  - 7) System mode indication: heating, cooling, low battery fan on.
10. Provide remote temperature sensor capability.
11. Provide mixed air sensor in supply air to close outside air damper.

#### M. Building Automation System

1. Interface control module to building automation system to be furnished and mounted by rooftop unit manufacturer. Through this interface module, all BAS shall be performed. The interface module with necessary controls and sensors shall all be factory mounted (not field mounted). If not furnished by rooftop unit manufacturer, this shall be furnished by temperature control Contractor for factory mounting by rooftop unit manufacturer in rooftop unit and rated for service up to 140 F. The only field connection to the building automation system shall be a single communication link.
2. Control Functions: Include unit scheduling, occupied/unoccupied mode, start-up and coast-down modes, nighttime free-cool purge mode, demand limiting, night setback, discharge air set point adjustment, timed override and alarm shutdown.
3. Diagnostic Functions: Include supply fan status, Diagnostic Functions shall Include: Unit operating mode, unit failure status, cooling failure, Heating failure, emergency service stop indication, supply fan proving, timed override activation, high temperature thermostat status, Zone temperature, supply air temperature, cooling status, Stage activation or not, Stage locked out by UCP/HPC status for that stage, compressor disable inputs, Number of stages activated, high temperature limit status, Economizer status, Enthalpy favorability status, Requested minimum position, Damper position, Dry bulb. Enthalpy input status, outside air temperature, outside relative humidity, Sensor failure: Humidity sensor, oat sensor, SAT sensor, RAT sensor, zone temperature sensor, mode input, cooling/heating setpoints from sensors (cv only), static pressure transducer, Unit mounted Potentiometer, SAT from potentiometer, high temp input status, local setpoint, local mode,
4. Provide capabilities for Boolean Processing and trend logs as well as "templated" reports and logs.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that roof is ready to receive work and opening dimensions are as indicated on shop drawings.
- B. Verify that proper power supply is available.

#### 3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Mount units on factory built roof mounting curb providing watertight enclosure to protect ductwork and utility services. Install roof mounting curb level.
- C. Provide p-trap on condensate drain outlets and pipe to nearest roof drain.

D. Maintain existing unit utility connection locations.

**3.03 SYSTEM STARTUP**

A. Prepare and start equipment. Adjust for proper operation.

**3.04 CLOSEOUT ACTIVITIES**

A. Demonstrate operation to Owner's maintenance personnel.

**END OF SECTION**

**SECTION 26 05 00**  
**BASIC ELECTRICAL REQUIREMENTS**

**PART 1 GENERAL**

**1.01 RELATED DOCUMENTS**

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

**1.02 SECTION INCLUDES**

- A. Basic Electrical Requirements and materials specifically applicable to Division 26 Sections, in addition to Division 1 - General Requirements. Section includes:
  - 1. Electrical Identification.
  - 2. Minor Demolition.
  - 3. Conductors and Devices.
  - 4. Raceways and Boxes.
  - 5. Supporting Devices.

**1.03 REGULATORY REQUIREMENTS**

- A. Conform to NFPA 70 - National Electrical Code, 2014 edition with amendments as adopted by the Village of Oak Brook, IL.
- B. Conform to building codes as adopted by the Village of Oak Brook Aurora, IL.
  - 1. International Mechanical Code: 2015 edition.
  - 2. International Building Code, 2015 Edition.
  - 3. International Fire Code, 2015 Edition.
- C. Install electrical Work in accordance with the NECA Standard of Installation.

**1.04 DELIVERY, STORAGE AND HANDLING**

- A. Store and protect all materials as specified under the provisions of Section 01 60 00 and as specified herein.
- B. Deliver products to the project properly identified with names, model numbers, types, grades, compliance labels, and other information needed for identification.
- C. Ship products to the job site in their original packaging. Receive and store products in a suitable manner to prevent damage or deterioration. Keep equipment upright at all times.
- D. Investigate the spaces through which equipment must pass to reach its final destination. Coordinate with the manufacturer to arrange delivery at the proper stage of construction and to provide shipping splits where necessary.

**1.05 PROJECT/SITE CONDITIONS**

- A. Install work in locations shown on Drawings, unless prevented by Project conditions. Drawings have omitted certain branch circuitry in areas for ease of reading. All branch circuitry is to be provided by Contractor.

- B. Prepare drawings showing proposed rearrangement of Work to meet Project conditions, including changes to Work specified in other Sections. Obtain permission from Architect/Engineer before proceeding as specified under modification procedures.

## **1.06 QUALITY ASSURANCE**

- A. Provide Work as required for a complete and operational electrical installation.
- B. All products shall be designed, manufactured, and tested in accordance with industry standards. Standards, organizations, and their abbreviations as used hereafter, include the following:
  - 1. American National Standards Institute, Inc (ANSI).
  - 2. American Society for Testing and Materials (ASTM).
  - 3. National Electrical Manufacturers Association (NEMA).
  - 4. Underwriters Laboratories, Inc. (UL).
- C. Install all Work in accordance with the NECA Standard of Installation.

## **1.07 PROJECT RECORD DOCUMENTS**

- A. Cooperate and assist in the preparation of project record documents under the provisions of Section 01 78 00.

## **1.08 PROJECT MANAGEMENT AND COORDINATION**

- A. Proper project management and coordination is critical for a successful project. Manage and coordinate the Work with all other trades in accordance with Section 01 30 00 requirements. Reliance on the Drawings and Specifications only for exact project requirements is insufficient for proper coordination.

## **PART 2 PRODUCTS**

### **2.01 WIRING METHODS**

- A. All locations: Building wire in raceway.
- B. Use no wire smaller than 12 AWG for power and lighting circuits, and no smaller than 14 AWG for control wiring.
  - 1. Use 10 AWG conductor for 20 ampere, 120 volt branch circuit home runs longer than 100 feet.

### **2.02 WIRE AND CABLE**

- A. Manufacturers:
  - 1. Okonite.
  - 2. Southwire.
  - 3. Collyer.
  - 4. Or equal to or superior to product as approved by Owner and Architect.
- B. Building Wire:
  - 1. Feeders and Branch Circuits Larger Than 6 AWG: Copper, stranded conductor, 600 volt insulation.

2. Feeders and Branch Circuits 6 AWG and Smaller: Copper conductor, 600 volt insulation. 6 and 8 AWG, stranded conductor; smaller than 8 AWG, stranded conductor (solid for device terminations).
  3. Control Circuits: Copper, stranded conductor, 600 volt insulation.
  4. Use 10 AWG conductors for 20 ampere, 120 volt branch circuits longer than 75 feet.
  5. Use 10 AWG conductors for 20 ampere, 277 volt branch circuits longer than 200 feet.
  6. Use conductor not smaller than 12 AWG for power and lighting circuits.
  7. Use conductor not smaller than 16 AWG for control circuits.
- C. Locations:
1. Concealed Dry Interior Locations: Use only building wire with Type THHN insulation in raceway.
  2. Exposed Dry Interior Locations: Use only building wire with Type THHN insulation in raceway.
  3. Above Accessible Ceilings: Use only building wire with Type THHN insulation in raceway.
  4. Wet or Damp Interior Locations: Use only building wire with Type THWN insulation in raceway.
  5. Exterior Locations: Use only building wire with Type XHHW insulation in raceway.

### **2.03 WIRING DEVICES AND WALL PLATES**

- A. GFCI Receptacle: Nema 5-20R, duplex, GFCI, specification grade.
1. Hubbell Model GF-5362.
  2. Slater Model SIR-20-F.
  3. Eagle Model 647.
  4. Color: Ivory.
  5. Or equal to or superior to product as approved by Owner and Architect.
- B. Weatherproof die cast cover.
1. Intermatic Model WP1030MC (Two-Gang).
  2. Intermatic Model WP1010MC (One-Gang).
  3. Approved Equal.
  4. Or equal to or superior to product as approved by Owner and Architect.

### **2.04 RACEWAY REQUIREMENTS**

- A. Use only specified raceway in the following locations:
1. Branch Circuits and Feeders:
    - a. Concealed Dry Interior Locations: Electrical metallic tubing.
    - b. Exposed Dry Interior Finished Locations: Electrical metallic tubing.
    - c. Exposed Dry Interior Unfinished Locations: Electrical metallic tubing.
    - d. All other locations: Galvanized Rigid Metallic Conduit.
    - e. Flexible Connections: Flexible metal conduit in dry locations, liquidtight (liquid-tight) metallic conduit in wet locations.
- B. Size raceways for conductor type installed.
1. Minimum Size Conduit Homerun to Panelboard: 3/4-inch.

### **2.05 METALLIC CONDUIT AND FITTINGS**

- A. Conduit:
1. Rigid Steel Conduit: ANSI C80.1.

2. Electrical metallic tubing: ANSI C80.3.
  3. Flexible Conduit: UL 1, zinc-coated steel.
    - a. Liquidtight Flexible Conduit: UL360. Fittings shall be specifically approved for use with this raceway.
- B. Conduit Fittings:
1. Metal Fittings and Conduit Bodies: NEMA FB 1.
    - a. EMT fittings: Use set-screw indentor-type fittings.

## **2.06 CONDUIT HANGERS**

- A. Manufacturers:
1. Minerrallac Electric Company.
  2. Or equal to or superior to product as approved by Owner and Architect.
- B. Description:
1. Standard conduit hanger, zinc-plated steel with bolts.
  2. Threaded rod and hardware: Plated finish, size and length as required for loading and conditions.

## **2.07 BEAM CLAMPS**

- A. Manufacturers:
1. Appleton.
  2. Midwest.
  3. Raco.
  4. Or equal to or superior to product as approved by Owner and Architect.
- B. Description: Malleable beam clamp, zinc plated steel.

## **2.08 ELECTRICAL BOXES**

- A. Manufacturers:
1. Raco.
  2. Steel City.
  3. Appleton.
  4. Or equal to or superior to product as approved by Owner and Architect.
- B. Sheet Metal Outlet Boxes: ANSI/NEMA OS 1, galvanized steel, suitable for installation in masonry:
- C. Equipment Support Boxes: Rated for weight of equipment supported; include 2 inch male fixture studs where required.
- D. Wet Location Outlet Boxes: Cast aluminum: Cast alloy, deep type, gasket cover, threaded hubs.

## **2.09 LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC)**

- A. Manufacturers:
1. AFC Cable Systems, Inc: [www.afcweb.com/#sle](http://www.afcweb.com/#sle).
  2. Electri-Flex Company: [www.electriflex.com/#sle](http://www.electriflex.com/#sle).
  3. International Metal Hose: [www.metalthose.com/#sle](http://www.metalthose.com/#sle).

4. Or equal to or superior to product as approved by Owner and Architect.
- B. Description: NFPA 70, Type LFMC polyvinyl chloride (PVC) jacketed steel flexible metal conduit listed and labeled as complying with UL 360.
- C. Fittings:
1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
  2. Material: Use steel or malleable iron.

## **2.10 PENETRATION SEALANTS**

- A. Fire-rated assemblies: Provide firestopping of all penetrations made by Work under this Contract in accordance with provisions of Section 07 84 00 requirements.
- B. Thermal and Moisture Protection: Provide thermal and moisture protection made by Work under this Contract of all exterior wall, floor and roof penetrations in accordance with Division 7 requirements.

## **2.11 NAMEPLATES AND LABELS**

- A. Nameplates: Engraved three-layer laminated plastic, black letters on white background.
- B. Locations:
1. Each electrical distribution and control equipment enclosure.
- C. Letter Size:
1. Use 1/8 inch letters for identifying individual equipment and loads.
  2. Use 1/4 inch letters for identifying grouped equipment and loads.
- D. Labels: Embossed adhesive tape, with 3/16 inch white letters on a black background. Use only for identification of individual wall switches and receptacles and control device stations.

## **2.12 WIRE AND CABLE MARKERS**

- A. Manufacturers:
1. Brady Model PCPS.
  2. Panduit Model PCM.
  3. T & B Model WM.
  4. Or equal to or superior to product as approved by Owner and Architect.
- B. Description: Cloth type wire markers.
- C. Locations: Each conductor at panelboard gutters, pull boxes, and each load connection.
- D. Legend:
1. Power and Lighting Circuits: Branch circuit or feeder number indicated on drawings.

## **2.13 CONDUIT MARKERS**

- A. Location: Furnish markers for each conduit longer than 6 feet.
- B. Spacing: 20 feet on center.
- C. Color:

1. 480 Volt System: Orange
2. 208 Volt System: Black
3. Fire Alarm System: Red.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION AND PREPARATION**

- A. Demolition Drawings are based on casual field observation and are intended to identify the limits of the construction site. Remove all electrical systems in their entirety in proper sequence with the Work.
- B. Disconnect electrical systems in walls, floors, and ceilings for removal.
- C. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.
- D. Beginning of demolition means installer accepts existing conditions.
- E. Verify that supporting surfaces are ready to receive work.
- F. Degrease and clean surfaces to receive wire markers.
- G. Verify that interior of building is physically protected from weather.
- H. Verify that mechanical work which is likely to injure conductors has been completed.
- I. Completely and thoroughly swab raceway system before installing conductors.

### **3.02 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK**

- A. Remove all existing electrical installations to accommodate new construction.
- B. Remove abandoned wiring to source of supply.
- C. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.
- D. Relocate existing fire alarm devices affected by wall, ceiling and floor demolition.
- E. Repair adjacent construction and finishes damaged during demolition and extension work.

### **3.03 APPLICATION**

- A. Install nameplate and label parallel to equipment lines.
- B. Secure nameplate to equipment front using screws.
- C. Neatly train and secure wiring inside boxes, equipment, and panelboards.
- D. Use wire pulling lubricant for pulling 4 AWG and larger wires.
- E. Route wire and cable as required to meet project conditions.
  1. Wire and cable routing indicated is approximate unless dimensioned.
  2. Where wire and cable destination is indicated and routing is not shown, determine exact routing and lengths required.

- F. Pull all conductors into raceway at same time.
- G. Protect exposed cable from damage.
- H. Neatly train and lace wiring inside boxes, equipment and panelboards.
- I. Support cables above accessible ceilings to keep them from resting on ceiling tiles.
- J. Make splices, taps, and terminations to carry full ampacity of conductors without perceptible temperature rise.
- K. Use split bolt connectors for copper conductor splices and taps, 6 AWG and larger. Tape uninsulated conductors and connector with electrical tape to 150 percent of insulation rating of conductor.
- L. Provide anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
- M. Do not fasten supports to pipes, ducts, mechanical equipment, and conduit.
- N. Do not use powder-actuated anchors.
- O. Do not drill or cut structural members.
- P. Fabricate supports from structural steel or steel channel. Rigidly weld members or use hexagon head bolts to present neat appearance with adequate strength and rigidity. Use spring lock washers under all nuts.
- Q. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.
- R. Terminate spare conductors with electrical tape.
- S. Install wiring devices in accordance with manufacturer's instructions.
  - 1. Install wall switches at height shown on drawings, OFF position down.
  - 2. Install convenience receptacles at height shown on drawings grounding pole on bottom.
  - 3. Install specific purpose receptacles at heights shown on Drawings.
- T. Install wall plates flush and level.
  - 1. Install decorative plates on switch, receptacle, and blank outlets in finished areas.
  - 2. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface-mounted outlets.

## END OF SECTION

## **SECTION 26 27 17 EQUIPMENT WIRING**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Electrical connections to equipment and devices not and integral part of the electrical distribution system.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 26 05 00 - Basic Electrical Requirements.

#### **1.03 REFERENCE STANDARDS**

- A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

#### **1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Provide conduit rough-in and electrical connection to powered equipment and devices identified in the Project Manual and on the Drawings. Refer specifically, but not limited to, these Specification Sections for further information:
  - 1. Section 23 74 13 - Packaged Outdoor Central-Station Air-Handling Units.
- B. Coordination: Determine connection locations and requirements for furniture, equipment and devices furnished or provided under other sections.
  - 1. Do not rely solely on the Drawings and Project Manual for execution of the Work of this Section.
  - 2. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions.
  - 3. Include necessary field evaluation time to inspect connection requirements.
  - 4. Coordinate with other trades to determine exact rough-in requirements.
- C. Sequencing:
  - 1. Install rough-in of electrical connections before installation of furniture and equipment is required.
  - 2. Make electrical connections before required start-up of equipment.

#### **1.05 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide wiring device manufacturer's catalog information showing dimensions, configurations, and construction.
- C. Manufacturer's Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

#### **1.06 QUALITY ASSURANCE**

- A. Conform to requirements of NFPA 70.

B. Products: Listed, classified, and labeled as suitable for the purpose intended.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

### **2.02 EQUIPMENT CONNECTIONS**

A. RTU-1a,1b and 1c:

1. Electrical Connection: Flexible conduit.
2. Field installed GFI receptacle, provided by electrical contractor.
3. Non-fused factory wired disconnect switch.
4. Voltage: 480 volts, 3 phase, 60 Hz.
5. FLA: 40 amperes.
6. Branch Circuit: 45 ampere circuit breaker, maximum, reuse and modify existing branch circuits..
7. Location: Rooftop

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

A. Verify that equipment is ready for electrical connection, wiring, and energization.

### **3.02 ELECTRICAL CONNECTIONS**

- A. Make electrical connections in accordance with equipment manufacturer's instructions.
- B. Make conduit connections to equipment using flexible conduit. Use liquidtight flexible conduit with watertight connectors in damp or wet locations.
- C. Connect heat producing equipment using wire and cable with insulation suitable for temperatures encountered.
- D. Provide new water-proof penetrations at roof portals to accommodate branch circuit replacement.
- E. Install disconnect switches, controllers, control stations, and control devices to complete equipment wiring requirements.
- F. Install terminal block jumpers to complete equipment wiring requirements.
- G. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.

**END OF SECTION**