SECTION 000101 PROJECT TITLE PAGE

PROJECT MANUAL

FOR

GUY SMITH STADIUM 2113 MYRTLE AVE. ARCHITECT'S PROJECT NUMBER: 23-0176.

OWNER CITY OF GREENVILLE RECREATION AND PARKS 2000 CEDAR LN. GREENVILLE, NC 27858

DATE: 07-31-2023

PREPARED BY: MAMMOTH DESIGN LLC DAVE DEVORE



2000 Cedar Lane Greenville, NC 27835 252-329-4567



CITY CONTACTS GUY SMITH STADIUM IMPROVEMENTS GREENVILLE, NORTH CAROLINA

CONTRACT DOCUMENTS AND SPECIFICATIONS CITY OF GREENVILLE, NORTH CAROLINA

MAYOR: P. J. CONNELLY

COUNCIL MEMBERS:
ROSE H. GLOVER
WILL BELL
MARION BLACKBURN
MONICA DANIELS
LES ROBINSON
RICK SMILEY

CITY MANAGER: ANN E. WALL

CITY ATTORNEY: EMANUEL D. MCGIRT

CITY CLERK: VALERIE SHIUWEGAR

PROJECT CONTACT: MARK NOTTINGHAM, AICP MNOTTINGHAM@GREENVILLENC.GOV

SECTION 000102 PROJECT INFORMATION

PART 1 GENERAL

1.01 PROJECT IDENTIFICATION

A. Project Name: Guy Smith Stadium, located at:

2113 Myrtle Ave..

Greenville, NC27834.

- B. The Owner, hereinafter referred to as Owner: City of Greenville Recreation and Parks
- C. Owner's Project Manager: Mark Nottingham.
 - 1. Department: City of Greenville Recreation & Parks Parks Planner.
 - 2. Address: 2000 Cedar Ln..
 - 3. City, State, Zip: Greenville, NC 27858.
 - 4. Phone/Fax: (252) 3294242.
 - 5. E-mail: mnottingham@greenvillenc.gov.

1.02 NOTICE TO PROSPECTIVE BIDDERS

A. These documents constitute an Invitation to Bid to and request for qualifications from General Contractors for the construction of the project described below.

1.03 PROJECT DESCRIPTION

- A. Summary Project Description: Renovation of an existing baseball stadium. Changes include: new fencing, relocating warning track along fence lines, new batting cages, field equipment, repair landscaping..
- B. Contract Terms: Cost plus a fee, with a guaranteed maximum price (GMP).

1.04 PROJECT CONSULTANTS

- A. The Architect, hereinafter referred to as Architect: Mammoth Design LLC
 - Address: 8813 Penrose Ln, Suite 200
 - 2. City, State, Zip: Lenexa, KS 66219
 - 3. Phone/Fax: (785) 400-6136

1.05 PROCUREMENT TIMETABLE

- A. Last Request for Information Due: 7 days prior to due date of qualifications statements.
- B. Last Request for Substitution Due: 7 days prior to due date of bids.
- C. Last Request for Information Due: 7 days prior to due date of bids.
- D. Anticipated Bid Due Date: TBD by owner, before TBD by Owner local time.
- E. Bid Opening: TBD by Owner, TBD by Owner local time.
- F. Desired Phase I Substantial Completion Date: 01-22-2024.
- G. Desired Final Phase Completion Date: 09-09-2024.
- H. Final Completion date is critical due to requirements of Owner's operations.
- I. The Owner reserves the right to change the schedule or terminate the entire procurement process at any time.

1.06 PROCUREMENT DOCUMENTS

- A. Availability of Documents: Complete sets of procurement documents may be obtained:
 - 1. From Owner at the Project Manager's address listed above.
 - 2. All procurement items must be approved by Owner

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)



SECTION 000103 PROJECT DIRECTORY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Identification of project team members and their contact information.

1.02 OWNER:

- A. Name: City of Greenville Recreation and Parks
 - Address Line 1: 2000 Cedar Ln.
 - City, State Zip: Greenville, NC 27858 2.
 - 3. Telephone: (252) 329-4242
- B. Primary Contact: All correspondence from the Contractor to the Architect will be direct, with copies to this party, unless alternate arrangements are mutually agreed upon at preconstruction meeting.
 - 1. Title: Parks Planner.
 - 2. Name: Mark Nottingham.
 - 3. Email: mnottingham@greenvillenc.gov.

1.03 CONSULTANTS:

- A. Architect: Design Professional of Record. All correspondence from the Contractor regarding construction documents authored by Architect's consultants will be through this party, unless alternate arrangements are mutually agreed upon at preconstruction meeting.
 - Company Name: Dave Devore.
 - a. Address Line 1: 8813 Penrose Ln, Suite 200
 - b. City: Lenexa.
 - c. State: KS.
 - d. Zip Code: 66219.
 - e. Telephone: (785) 400-6136
 - Primary Contact: 2.
 - a. Title: Architectural Designer.
 - b. Name: Beau Hewins.
 - c. Email: beau.hewins@mammothbuilt.com.
- B. Civil Engineering Consultant:
 - Company Name: .Mammoth Design LLC
 - a. Address Line 1: 8813 Penrose Ln, Suite 200
 - b. City: Lenexa.

 - c. State: KS. d. Zip Code: 66219.
 - e. Telephone: (785) 400-6136

1.04 TBD:

- A. Company Name: General Contractor
 - Address Line 1: TBD 1.
 - 2. City: TBD
 - 3. State: SD
 - 4. Zip Code: 57104
 - 5. Telephone: TBD
- B. Primary Contact:
 - 1. Title: Vice President of Construction Operations.
 - 2. Name: TBD
 - Email: matt@mammothbuilt.com.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED



SECTION 000107 SEALS PAGE



ARCHITECT DAVID DEVORE



CIVIL ENGINEER
DYLAN MEDLOCK



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SECTION 000120 LIST OF SCHEDULES

1.01 MILESTONE SCHEDULE OF CONSTRUCTION

A. Bidders recognize that revisions in the planned schedule are inherent in the nature of construction. This may result in revisions to the schedule of construction for the Project and the Bidders' Work during the progress of construction. Bidders acknowledge that Owner or Contractor cannot guarantee Bidders, if selected, will be able to start the Work on any date or continue without interruption once started. Bidders shall include in their Bid all costs associated with this risk.



SECTION 001113 ADVERTISEMENT TO BID

GUY SMITH STADIUM IMPROVEMENTS

1.01 ADVERTISEMENT FOR BIDS

- A. The Greenville Recreation and Parks Department (GRPD) will accept bids for the Guy Smith Stadium Improvements project, beginning August 2, 2023. SEALED, SINGLEPRIME BIDS from qualified bidders will be received by the City in the offices of Recreation and Parks, 2000 Cedar Ln. Greenville, NC 27858, at 2:00 pm (Eastern Standard Time) on August 31, 2023, and publicly opened thereafter at 2:01 pm. Bids shall be marked "SEALED BID", addressed to the attention of Mr. Mark Nottingham, Greenville Recreation and Parks Department, and shall include the Name, Address, and License Number of the bidder, and the type proposal enclosed. The OPTIONAL Pre-Bid Meeting will be held August 17, 2023 at 2:00 PM.
- B. Each bidder must show evidence that they are licensed under Chapter 87 of the N.C. General Statutes. Performance and payment bonds are required.
- C. General Description of the work:
- D. The work includes all labor, equipment, and materials to complete in every detail of the work indicated on the plans and specifications. Specifically, all work incidental thereto Guy Smith Stadium and Site Improvements including, but not limited to, demolition, earthwork, and construction.

1.02 MBE/WBE PARTICIPATION

A. The goal for Minority and / or Women Business Enterprise (M/WBE) participation is MBE 10% and WBE 6%. Each goal must be met separately. Exceeding one goal does not satisfy requirements for the other.

1.03 CONTRACT DOCUMENTS

- A. Copies of the CONTRACT DOCUMENTS may be obtained electronically via the City of Greenville Current Bid Opportunities Webpage. For information, contact Mark Nottingham at 252-329-4242 or mnottingham@greenvillenc.gov.
- B. If applicable, each proposal shall be accompanied by a bid bond executed by a corporate security licensed to do so under North Carolina law, of an amount equal to not less than five percent (5%) of the proposal, or in lieu thereof, a bidder may offer a certified check on a bank or trust company insured by the Federal Deposit Insurance Corporation. Each bidder's deposit, except for the bidder to whom the contract is awarded, shall be returned after the contract awarded. The City shall retain the bid deposit of the bidder to whom the contract is awarded if the bidder fails to execute the contract within ten days after the award.
- C. To whom the contract is awarded, and if required by North Carolina General Statute, a Performance and Payment Bond will be required for one hundred percent (100%) of the contract price.
- D. No bid may be withdrawn after the scheduled closing time for the receipt of bids for a period of 60 days after the bid date.
- E. The City of Greenville reserves the right to reject any or all proposals.

SIGNED:

Mark Nottingham City of Greenville Recreation and Parks Department 2000 Cedar Lane Greenville, NC 27858



SECTION 002113 INSTRUCTIONS TO BIDDERS

1.01 INSTRUCTIONS

- A. Bids will be received for Single Prime Contract. All proposals shall be for lump sum. It is the intent of the City to award this bid to the lowest responsive and responsible bidder.
- B. Bidders are requested to return bids to the City of Greenville Recreation and Parks Department prior to bid opening. Bids will be opened promptly at the time specified in the Invitation to Bid. Bidders are cautioned to be prompt since No Bids Will Be Accepted after the time designated for the bid opening. The precise time will be monitored by the by the person responsible for opening the bids.
- C. All bids submitted must be on the blank proposal forms herein provided and prices given shall be both in writing and figures and the complete form shall be without any lineation, alterations, or erasures. In case of conflicting prices, the written prices shall govern.
- D. Bids shall be enclosed in a sealed envelope, directed to the City of Greenville, Recreation and Parks Department, 2000 Cedar Lane, Greenville, North Carolina 27858, and marked with the bidder's North Carolina Contractor's License number. All bids must be marked Bid on the outside of the envelope.
- E. Each proposal shall contain the full name and address of each bidder. When firms bid, the name of each member shall be signed and the firm name added, and the execution shall be done as more specifically stated herein under the following section.
- F. The omission of prices upon any item for which bids are asked or the tendering of an unbalanced bid will be the cause of the rejection of the bid submitted.
- G. No bid shall be considered or accepted by the City unless at the time of its filing, it is accompanied by a deposit of cash, or a cashier's check, or a certified check on some bank or trust company insured by the Federal Deposit Insurance Corporation in an amount equal to not less than five percent (5%) of the bid, if applicable. In lieu of making that deposit, the bidder may file a bid bond executed by a corporate surety licensed under the laws of North Carolina to execute such bonds, conditioned that the surety will upon demand forthwith make payment to the City of Greenville upon the bond if the bidder fails to execute the contract in accordance with the bid bond. This deposit shall be retained by the City if the successful bidder fails to execute the contract within 10 days after the award or fails to give satisfactory bonds or deposit as required herein. The bidder to whom the award of contract is made shall either (a) furnish bonds as required by Article 3 of Chapter 44A of the N.C. General Statutes, using the form supplied by the City; or (b) deposit with the City money, certified check or government securities. The bonds or deposit shall be for the full amount of the contract to secure the faithful performance of the terms of the contract and the payment of all sums due for labor and materials in a manner consistent with Article 3 of Chapter 44 AINSTRUCTIONS TO BIDDERS
- H. General Contractors are notified that Chapter 87, Article 1, General Statutes of North Carolina will be observed in receiving and awarding general contracts. General contractors submitting bids on this project must have license classification for general contractor.
- I. NOTE: Under GS 87-1, a contractor that superintends or manages construction of any building, highway, public utility, grading, structure, or improvement shall be deemed a "general contractor" and shall be so licensed. Therefore, a single prime project that involves other trades will require the single prime contractor to hold a proper General Contractors license.
- J. Except to the extent allowed by statute, bids shall not be withdrawn, and bids shall remain subject to acceptance by the City for a period of 90 days.
- K. Bidders must present satisfactory evidence that they have been regularly engaged in the business of constructing such work, and that they are fully prepared with the necessary capital, equipment, etc., to begin the work promptly, and complete the same in accordance with specifications.
- L. The bids will be evaluated, and the contract awarded in accordance with statutory public contract requirements as supplemented or altered by the Minority and / or Women Business Enterprise (M/WBE) requirements supplied with this bid package. These forms must be filled out and returned with the bid proposal. Any bids submitted without these completed forms shall be deemed as "non-responsive". If there are any questions or problems in filling out these

Guy Smith Stadium 2113 Myrtle Ave. Greenville, NC 27834

forms, please contact:

- 1. Tish Williams, MWBE Coordinator (252) 329-4462
- M. The successful bidder is required to commence work within ten (10) written days after written notice from the Project Manager. Termination of work shall also be controlled by the City of Greenville.
- N. The contractor will furnish all materials, labor, equipment, supervision, tools, machinery, etc. for complete construction of projects in accordance with plans and specifications of the City of Greenville.
- O. The bidder to whom the award is made shall be required to furnish work crews of adequate number, size, and experience to properly perform the work. The interpretation of the number of crews, size, and experience will be determined by the City of Greenville as to their adequacy.
- P. It shall be the contractor's responsibility to obtain all necessary and required permits and inspections. These permits shall be presented upon demand.
- Q. The Contractor will perform, or have performed, all necessary site layout (both lines and grades) for this construction.
- R. The Contractor must provide the City of Greenville a safety plan of their organization, prior to approval of the contract.
- S. The following standard documents shall be used for their intended purposes unless the Owner consents to use other forms:
 - 1. Standard Form of Agreement Between Owner and Contractor
 - General Conditions of the Contract for Construction.
- T. The contractor(s) to whom the award is made must carry insurance in the amounts and types outlined in the Insurance Requirements section of this document.
- U. The insurance herein required shall be with an insurance company authorized to do business in North Carolina and having a BEST rating of A or better.
- V. Insurance shall be evidenced by a certificate:
 - 1. Providing notice to the City of not less than 30 days prior to cancellation or reduction of coverage
 - 2. Certificates should be addressed to:

City of Greenville, North Carolina Attn: Mark Nottingham 2000 Cedar Ln Greenville, NC 27858

1.02 INSURANCE

A. The Company agrees to purchase at its own expense insurance coverages to satisfy the following minimum requirements. A certificate reflecting the following minimum coverages shall accompany this Agreement:

1.03 WORKERS' COMPENSATION INSURANCE:

- A. Limits:
 - 1. Workers Compensation: Statutory for the State of North Carolina
 - a. Employers Liability:
 - 1) Bodily Injury by Accident \$1,000,000 each accident
 - 2) Bodily Injury by Disease \$1,000,000 policy limit
 - 3) Bodily Injury by Disease \$1,000,000 each employee.
- B. No sub-contractor may exclude executive officers. Workers Compensation must include all employees.

1.04 COMMERCIAL GENERAL LIABILITY:

A. Limits:

Zirinto.	
Each Occurrence:	\$1,000,000
Personal and Advertising Injury	\$1,000,000
General Aggregate Limit	\$2,000,000
Products and Completed Operations Aggregate	\$2,000,000

- B. The aggregate limit must apply per project. The form of coverage must be the ISO CG 00 01 policy as approved by the State of North Carolina Department of Insurance. If a form of coverage other than the CG 00 01 is used it must be approved by the City. Any endorsed exclusions or limitations from the standard policy must be clearly stated in writing and attached to the Certificate of Insurance. Completed Operations coverage must be maintained for the period of the applicable statute of limitations.
- C. The City must be added as an Additional Insured to the Commercial General Liability policy.

1.05 COMMERCIAL AUTOMOBILE LIABILITY:

- A. Limits:
 - 1. \$1,000,000 combined single limit.
- B. The City must be added as an Additional Insured on the Commercial Auto Liability policy.
- C. All insurance companies must be admitted to do business in North Carolina and be acceptable to the City. If the insurance company(s) is a permitted surplus lines insurer, the insurance company name, and NAIC number must be submitted to the City's Risk Manager for approval before commencing work. Company shall be required to provide the City no less than thirty (30) days' notice of cancellation, or any material change, to any insurance coverage required by this Agreement
- D. A Certificate of Insurance (COI) must be issued by an authorized representative of the insurance carrier(s). Certificates of Insurance must have the Insurance Company name and NAIC number clearly identified.
- E. The City's review or acceptance of Certificates of Insurance shall not relieve the Company of any requirement to provide the specific insurance coverages set forth in the Agreement. Nor shall the City's review or acceptance of Certificates of Insurance constitute a waiver of the specific insurance coverage requirements set forth in the Agreement or acknowledgement that all insurance coverage requirements set forth in the Agreement have been met.

1.06 HOLD HARMLESS AND INDEMNITY AGREEMENT:

- A. To the fullest extent permitted by law, Company shall indemnify and hold harmless the City, its employees, agents, and consultants against any liability arising out of or in connection with any of the operations or obligations of Company, including but not limited to any said operations or obligations subcontracted or assigned to a different person or entity from claims, damages, losses, and expenses, including but not limited to attorneys' fees, which is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, caused by acts or omissions of Company or anyone directly or indirectly employed by them or anyone for whose acts the Company may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligation of indemnity which would otherwise exists as to a party or person described in this paragraph.
- B. Indemnification.
 - To the maximum extent allowed by law, Contractor shall indemnify and save harmless INDEMNITIES FROM AND AGAINST ALL CHARGES THAT ARISE IN ANY MANNER FROM, IN CONNECTION WITH, OR OUT OF THIS CONTRACT (INCLUDING, BUT NOT LIMITED TO, CHARGES THAT ARISE AS A RESULT OF ACTS OR OMISSIONS OF CONTRACTOR, INDEMNITIES, OR ANY OTHER PERSON, FIRM OR CORPORATION). IN PERFORMING ITS DUTIES UNDER THIS SUBSECTION "A", CONTRACTOR SHALL AT ITS SOLE EXPENSE DEFEND INDEMNITIES WITH LEGAL COUNSEL REASONABLY ACCEPTABLE TO THE CITY OF GREENVILLE ("CITY").
 - 2. Definitions. As used in subsections "a" above and "c" below "Charges" means claims, judgments, costs, damages, losses, demands, liabilities, obligations, fines, penalties, royalties, and expenses (including interest and reasonable attorney's fees assessed as part of any such item); "Contractor" means all parties to this contract other than City; and "Indemnities" means City and its officers, officials, independent contractors, agents, and employees.
 - 3. Limitation of Contractor's Obligation. If this is in, or is in connection with, a contract relative to the design, planning, construction, alteration, repair or maintenance of a building, structure, highway, road appurtenance or appliance, including moving, demolition and

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excavating therewith, then subsection "a" above shall not require the Contractor to indemnify or hold harmless the City, its independent contractors, agents, employees, or indemnities against liability for damages arising out of bodily injury to persons or damage to property proximity caused by or resulting from the negligence, in whole or in part, or the City, its independent contractors, agents, employees, or indemnities.

- C. The successful bidder is required to commence work within ten (10) written days after written notice from the Project Manager. Termination of work shall also be controlled by the City of Greenville.
- All work under this contract shall be completed within ninety (90) days from the date of the Notice to Proceed.
- E. E-VERIFY COMPLIANCE: The Contractor shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Further, if the Contractor utilizes a Subcontractor, the Contractor shall require the Subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. By submitting a proposal, The Proposer represents that their firm and its Subcontractors are in compliance with the requirements of Article 2 Chapter 64 of the North Carolina General Statutes.
- F. IRAN DIVESTMENT ACT: Vendor certifies that: (i) it is not on the Iran Final Divestment List created by the NC State treasurer pursuant to N.C.G.S. 147-86.58; (ii) it will not take any actions causing it to appear on said list during the term of any contract with the City, and (iii) it will not utilize any subcontractor to provide goods and services hereunder that is identified on said list.
- G. TITLE VI NONDISCRIMINATION NOTIFICATION The City of Greenville, North Carolina in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 US.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all respondents that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit proposals in response to this advertisement and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.
- H. EQUAL EMPLOYMENT OPPORTUNITY CLAUSE The City of Greenville is an equal opportunity employer and strictly prohibits discrimination against any employee or applicant for employment because of the individual's race, color, religion, age, gender, disability, national origin, genetic information, sexual orientation, gender identity/reassignment or expression, military or veteran status, marital status, or any characteristic protected by applicable law.
- I. Any questions regarding the Contract Conditions and Bid Documents should be directed to Mark Nottingham in writing by email to mnottingham@greenvillec.gov.

SECTION 003113 MILESTONE SCHEDULE OF CONSTRUCTION

PART 1 GENERAL PART 3 EXECUTION

2.01 SCHEDULES

A. Bidders recognize that revisions in the planned schedule are inherent in the nature of construction. This may result in revisions to the schedule of construction for the Project and the Bidders' Work during the progress of construction. Bidders acknowledge that Owner or Contractor cannot guarantee Bidders, if selected, will be able to start the Work on any date or continue without interruption once started. Bidders shall include in their Bid all costs associated with this risk.



(USE THIS FORM ONLY)

SUBMIT PROPOSALS IN CARE OF: Recreation and Parks Department City of Greenville 2000 Cedar Lane Greenville, NC 27858 (252) 329-4242

BIDDER'S FIRM NAME:	

DATE: August 31, 2023

PROPOSAL: Guy Smith Stadium Improvements

The Undersigned, as Bidder, hereby declares that only person or persons interested in this proposal as principals or principals is or are named herein and that no other persons than herein mentioned has any interest in this proposal or in the contract to be entered, that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respect fair and in good faith without collusion or fraud.

The bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the specifications for the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids, that he has satisfied himself relative to the work to be performed.

Materials to be furnished shall be in compliance with standard specifications and special provisions. <u>CONTRACTOR'S</u> responsibility shall continue uninterrupted until expiration of the warranty period as stated in the specifications after completion of the work. The owner (City of Greenville) reserves the right to select any or all of the alternates and to increase or decrease the total contract amount utilizing the unit prices supplied by the CONTRACTOR in the bid form.

The Bidder agrees, if his proposal is accepted, to contract with the City of Greenville, 200 West Fifth Street, Greenville, NC 27858, in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and labor necessary to complete within the time allotted as specified, the General Construction work on the Owner's property, in complete accordance with the Plans, Specifications, and Contract Documents bearing the title **Guy Smith Stadium Improvements**, with a definite understanding that no money will be allowed for extra work except as set forth in the Contract Documents for the sums as follows.

City of Greenville, NC Guy Smith Stadium Improvements BID FORM

Price Breakdown for Individual Base Bid Items Required BASE BID ITEMS

Item	Description and Price in Words	Price in Figures
1	The construction of all miscellaneous work per the plans and specifications, including but not limited to: General Conditions, Site Preparation, Demolition, Grading, Utilities, Paving, Shade Structures, Site Furnishings, Fencing, Retaining Walls, Electrical Service Modifications, and Landscaping (and any other Base Bid items not covered below), to construct complete and in place the Guy Smith Stadium Improvements in Greenville, NC for the Lump Sum of	
	dollars andcents.	\$

ADD ALTERNATE BID ITEMS (None)

Item	Description and Price in Words	Price in Figures
AA	Additional Concrete Pool Deck, complete and in place, for the Lump Sum of	
(A)	dollars andcents.	
		\$
AA	One Additional Shade 20'x20' Shade Structure with Picnic Tables, complete and in	
(B)	place, for the Lump Sum of	
	dollars andcents.	۹ ا
		•

A. ALLOWANCES: None Included

B. DECLARATION:

C. ADDENDA: Bidder acknowledges receipt of Addenda as follows:

No	Date:	
No	Date:	
No.	Date:	

D. SUBCONTRACTORS: Prior to the execution of a contract, the successful bidder hereby agrees to provide City of Greenville with a list of all other subcontractors (name, address, telephone number, contact person, etc.):

- E. EXTENDED PROPOSAL: Bidder agrees that this bid shall be valid and may not be withdrawn for a period of forty-five (45) calendar days after the closing time for receiving bids.
- F. CONTRACT TIME: The Undersigned further agrees to commence said work upon receipt of the Notice to Proceed issued by the City and to complete the same within <u>Ninety (90)</u> Calendar days after date of the Notice to Proceed.
- G. LIQUIDATED DAMAGES FOR SUBSTANTIAL COMPLETION: The Undersigned agrees that, from the compensation otherwise to be paid, the Owner may retain the sum of One Thousand and No Dollars (\$1,000.00) for each calendar day that the entire Work remains incomplete after thirty (30) calendar days following the date of Substantial Completion issued by the Designer or Owner, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the Undersigned to complete work at the time stipulated in the Contract. This sum is not to be construed in any sense a penalty.
- H. FINAL COMPLETION / FINAL ACCEPTANCE: The Undersigned agrees to complete all the Work within thirty (30) calendar days after the date of Substantial Completion.

ALTERNATES

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" the base bid.

REQUIRED FORMS

The following forms have been completed by the CONTRACTOR and are attached hereto. CONTRACTOR to sign.

MBE / WBE Form(s):

Refer to the Instructions section found on page 3 of the MBE / WBE Forms in the Project Manual.

Bid Bond for City of Greenville:

Refer to the Bid Bond forms found in the Project Manual. Use these forms, only if required.

Respectfully submitted this_	day of	, 2022.
Signature:		
Title:		
Firm:		
License No	Expiration Date:	

Contract name and number or other description of the Contract:

(<u>name</u> of Surety)

(<u>signature</u> of Surety's attorney in fact)

(Affix Surety's corporate seal)

(Instructions to Surety: If you use a raised corporate seal, press hard enough to make it legible.)

ACKNOWLEDGMENT OF SURETY'S EXECUTION OF BID BOND

State of		County of	
I,state, certify that		, a notary public in and for said county a	
me this day and ackn	owledged that he or she is At	tomey in Fact for	
		, th	ie
-		bond the Obligee is the City of Greenville, and the rety, on behalf of the Surety.	at he
This the	day of	20	
My commission expir	res:		
		Notary Public	

PERFORMANCE BOND AND PAYMENT BOND (Use this form only if required)

Date of Contract:		
Contract Name and Number:		
Name of Principal (Name of Contractor):		
The <u>Principal</u> is organized and existing under the laws of the following State:		
Name of Surety:		
Name, address, and telephone number of Surety's N. C. Resident Agent:		
Amount of Performance Bond (in words and figures):		
	dollars	
Bond number:		
Date of Execution of these Bonds:		

Contracting Body: CITY OF GREENVILLE, a North Carolina municipal corporation.

Amount of Payment Bond: same dollar amount as the dollar amount of the Performance Bond.

KNOW ALL PERSONS BY THESE PRESENTS, That we, the PRINCIPAL AND SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the <u>Principal</u> entered into a certain contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Contracting Body, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue. As used hereinabove, "modifications" shall include, without limitation, changes (including, without limitation, changes granting extensions of time) and additions to or with respect to the work, scope of work, and specifications. The undertakings, covenants, terms, conditions, and agreements of said contract shall include, without limitation, the Principal's obligations, if any, with respect to damages for delay, to indemnify, and to provide warranties.

KNOW ALL PERSONS BY THESE PRESENTS, <u>That</u> we, the PRINCIPAL AND SURETY above named, are held and firmly bound unto the <u>above named</u> Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the <u>Principal</u> entered into a certain contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the <u>Principal</u> shall promptly make payment to all persons supplying labor and material in the prosecution of the work provided for in said contract, and any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue. As used hereinabove, "modifications" shall include, without limitation, changes (including, without limitation, changes granting extensions of time) and additions to or with respect to the work, scope of work, and specifications.

* * * * * * * * * * * * * * * * * *

The Performance Bond and the Payment Bond are being combined here only for purposes of convenience in signing and acknowledging, and the obligations of the <u>Principal</u> and of the Surety are the same as if the bonds were on separate documents. Each bond is in the dollar amount stated above, and the amounts of these bonds are not combined. The Surety agrees that both of these bonds are fully binding on it whether or not the <u>Principal</u> executes these bonds. These bonds are given pursuant to Article 3 of Chapter 44A of the N. C. General Statutes.

IN WITNESS WHEREOF, the above-bounder parties have executed this instrument (for both the Performance Bond and the Payment Bond) under their several seals on the date of execution indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

	(name of Principal)	
[Execution by Principal when the Principal is a corporation]		

Guy Smith Stadium Bid Forms - 004100 7

	By: Title of officer:
(Affix Principal's corporate seal.)	
[Execution by Principal when the Principal is a limited liab	ility company]
	By:
	Manager of Principal
[Surety's execution]	
	(<u>name</u> of Surety)
(<u>signatuve</u> of atto (Affix Surety's cor	

(Instructions to Surety and Principal: If you use a raised corporate seal, press hard enough to make it legible.)

ACKNOWLEDGMENT OF CONTRACTOR'S EXECUTION OF CONTRACT AND PERFORMANCE BONDAND PAYMENT BOND

[Acknowledgment when the Contractor (the Principal) is a corporation]
State of County of _	
I, a notary public in and for the aforesaid county and s	tate, certify that
personally appeared before me this day and stated that inapplicable:) chairperson/ president/ chief executive president/ treasurer/ chief financial officer of_corporation, and that by authority duly given and as the foregoing contract with the City of Greenville and Per respect to the contract and the corporate seal was affix, 20	officer/ vice-president/ assistant vice- , a ne act of the corporation, he or she signed the formance Bond and Payment Bond with ed to said instrument(s). This theday of
My commission expires:	Notary Public
[Acknowledgment when the Contractor (the Principal	
State ofCou	nty of
I	(1) appeared before , a limited g contract with the City of Greenville and the the contract carry on the company's business in
This theday of	20
My commission expires:	Notary Public

ACKNOWLEDGMENT OF SURETY'S EXECUTION OF PERFORMANCE BOND AND PAYMENT BOND

State of		County of	
I, a notary public	c in and for the aforesaid coun	ty and state, certify <u>that</u> personally appeared before me	this day
and stated that h	e or she is Attorney in Fact fo	r	•
	is the City of Greenville, and	e Bond and Payment Bond, in both of which bond that he or she executed said bonds, under the seal	
This the	day of	, 20	
My commission	expires:		
		Notary Public	

City of Greenville/Greenville Utilities Commission Minority and Women Business Enterprise (MWBE) Program

City of Greenville Construction Guidelines and Affidavits \$100,000 and above

These instructions shall be included with each bid solicitation.

City of Greenville/Greenville Utilities Commission Minority and Women Business Enterprise Program

\$100,000 and Construction Guidelines for MWBE Participants

Policy Statement

It is the policy of the City of Greenville and Greenville Utilities Commission to provide minorities and women equal opportunity for participating in all aspects of the City's and Utilities' contracting and procurement programs, including but not limited to, construction projects, supplies and materials purchases, and professional and personal service contracts.

Goals and Good Faith Efforts

Bidders responding to this solicitation shall comply with the MWBE program by making Good Faith Efforts to achieve the following aspiration goals for participation.

	CITY	
	MBE	WBE
Construction This goal includes	10%	6%
Construction Manager at Risk.		

Bidders shall submit MWBE information with their bids on the forms provided. This information will be subject to verification by the City prior to contract award. As of July 1, 2009, contractors, subcontractors, suppliers, service providers, or MWBE members of joint ventures intended to satisfy City MWBE goals shall be certified by the NC Office of Historically Underutilized Businesses (NC HUB) only. Firms qualifying as "WBE" for City's goals must be designated as a "women-owned business" by the HUB Office. Firms qualifying as "MBE" for the City's goals must be certified in one of the other categories (i.e.: Black, Hispanic, Asian American, American Indian, Disabled, or Socially and Economically Disadvantaged). Those firms who are certified as both a "WBE" and "MBE" may only satisfy the "MBE" requirement. Each goal must be met separately. Exceeding one goal does not satisfy requirements for the other. A complete database of NC HUB certified firms may be found at http://www.doa.nc.gov/hub/. An internal database of firms who have expressed interest to do business with the City and GUC is available at www.greenvillenc.gov. However, the HUB status of these firms must be verified by the HUB database. The City shall accept NCDOT certified firms on federally funded projects only. Please note: A contractor may utilize any firm desired. However, for participation purposes, all MWBE vendors who wish to do business as a minority or female must be certified by NC HUB.

The Bidder shall make good faith efforts to encourage participation of MWBEs prior to submission of bids in order to be considered as a responsive bidder. Bidders are cautioned that even though their submittal indicates they will meet the MWBE goal, they should document their good faith efforts and be prepared to submit this information, if requested.

The MWBE's listed by the Contractor on the **Identification of Minority/Women Business Participation** which are determined by the City to be certified shall perform the work and supply the materials for which they are listed unless the Contractors receive <u>prior authorization</u> from the City to perform the work with other forces or to obtain materials from other sources. If a contractor is proposing to perform all elements of the work with his own forces, he must be prepared to document evidence satisfactory to the owner of similar government contracts <u>where</u> he has self-performed.

Attach to Bid At

Instructions

The Bi	dder shall provide <u>with the bid</u> the following documentation:
	Identification of Minority/Women Business Participation (if participation is zero, please mark zero—Blank forms will be considered nonresponsive)
OR.	Affidavit A (if subcontracting)
	Identification of Minority/Women Business Participation (if participation is zero, please mark zero—Blank forms will be considered nonresponsive)
	Affidavit B (if self-performing; will need to provide documentation of similar projects in scope, scale, and cost)
	72 hours or 3 business days after notification of being the <u>apparent low bidder</u> who is tracting anything must provide the following information:
	Affidavit C (if aspirational goals are met or are exceeded)
OR.	
	Affidavit D (if aspirational goals are <u>not</u> met)
Execu	After award of contract and prior to issuance of notice to proceed: Letter(s) of Intent or ited Contracts

**With each pay request, the prime contractors will submit the Proof of Payment Certification, listing payments made to MWBE subcontractors.

***If a change is needed in MWBE Participation, submit a Request to Change MWBE Participation Form. Good Faith Efforts to substitute with another MWBE contractor must be demonstrated.

Minimum Compliance Requirements:

All written statements, affidavits, or intentions made by the Bidder shall become a part of the agreement between the Contractor and the City for performance of contracts. Failure to comply with any of these statements, affidavits or intentions or with the minority business guidelines shall constitute a breach of the contract. A finding by the City that any information submitted (either prior to award of the contract or during the performance of the contract) is inaccurate, false, or incomplete, shall also constitute a breach of the contract. Any such breach may result in termination of the contract in accordance with the termination provisions contained in the contract. It shall be solely at the option of the City whether to terminate the contract for breach or not. In determining whether a contractor has made Good Faith Efforts, the CITY will evaluate all efforts made by the Contractor and will determine compliance in regard to quantity, intensity, and results of these efforts.

Attach to Bid At

II	Dusiness raid	
(Name of Bidder) do hereby certify that on this project, we will use the following n as construction subcontractors, vendors, suppliers or providers of	ninority/women busin f professional service	ness enterprises s.
Firm Name, Address and Phone #	Work type	*MWBECategory
*MWBE categories: Black, African American (B), Hispanic, Latino (I (I), Female (F) Socially and Economically Disadvan		
If you will not be utilizing MWBE contractors, ple	ease certify by enter	ing zero " <u>u</u> "
The total value of MBE business contracting wil	I be (\$)	
The total value of WBE business contracting wi	ll be (\$)	

City of Greenville AFFIDAVIT A - Listing of Good Faith Efforts County of _____ (Name of Bidder) Affidavit of I have made a good faith effort to comply under the following areas checked: Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101) 1 – (10 pts) Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed. 2 -(10 pts) Made the construction plans, specifications and requirements available for review by prospective minority businesses or providing these documents to them at least 10 days before the bids are due. 3 – (15 pts) Broken down or combined elements of work into economically feasible units to facilitate minority participation. 4 – (10 pts) Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses. 5 – (10 pts) Attended prebid meetings scheduled by the public owner. ☐ 6 – (20 pts) Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors. 7 – (15 pts) Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing. 8 – (25 pts) Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit. 9 - (20 pts) Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible. 10 - (20 pts) Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands. The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority/Women Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d) Failure to abide by this statutory provision will constitute a breach of the contract. The undersigned hereby certifies that he or she has read the terms of the minority/women business commitment and is authorized to bind the bidder to the commitment herein set forth. Name of Authorized Officer: Signature: ____ Title: SEAL , County of State of Subscribed and sworn to before me this ____day of______20____ Notary Public _____

My commission expires

Attach to Bid Attach to Bid

City of Greenville -- AFFIDAVIT B-- Intent to Perform Contract with own Workforce.

County of
Affidavit of(Name of Bidder)
(Name of Bidder)
hereby certify that it is our intent to perform 100% of the work required for contract.
thecontract. (Name of Project)
In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and
The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.
The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.
DateName of Authorized Officer: Signature:
SEAL Title:
State of, County of
Subscribed and sworn to before me thisday of20
Notary Public
My commission expires

Do not submit with bid Do not submit with bid Do not submit with bid Do not submit with bid

City of Greenville - AFFIDAVIT C -

Portion of the Work to be Performed by MWBE Firms

City of Greenville AFFIDAVIT D - Good Faith Efforts

County of				
(Note this form is to be submitted only by	the apparent lowest	responsible, responsiv	e bidder.)	
If the goal of 16% participation by mir shall provide the following documenta				
Affidavit of	Affidavit ofI do hereby certify (Name of Bidder)			
that on the	(Project Name)		_	
Project ID#		ınt of Bid \$		
I will expend a minimum of	% of the tota sinesses will be en sional services. Suc sheets if required)	al dollar amount of the aployed as construction th work will be subcon	contract with women n subcontractors, stracted to the following	
Name and Phone Number	*MWBE Category	Work description	Dollar Value	

Examples of documentation required to demonstrate the Bidder's good faith efforts to meet the goals set forth in these provisions include, but are not necessarily limited to, the following:

- A. Copies of solicitations for quotes to at least three (3) minority business firms from the source list provided by the State for each subcontract to be let under this contract (if 3 or more firms are shown on the source list). Each solicitation shall contain a specific description of the work to be subcontracted, location where bid documents can be reviewed, representative of the Prime Bidder to contact, and location, date and time when quotes must be received.
- Copies of quotes or responses received from each firm responding to the solicitation.
- C. A telephone log of follow-up calls to each firm sent a solicitation.
- D. For subcontracts where a minority business firm is not considered the lowest responsible sub-bidder, copies of quotes received from all firms submitting quotes for that particular subcontract.
- E. Documentation of any contacts or correspondence to minority business, community, or contractor organizations in an attempt to meet the goal.
- F. Copy of pre-bid roster.
- G. Letter documenting efforts to provide assistance in obtaining required bonding or insurance for minority business.
- H. Letter detailing reasons for rejection of minority business due to lack of qualification.
- Letter documenting proposed assistance offered to minority business in need of equipment, loan capital, lines
 of credit, or joint pay agreements to secure loans, supplies, or letter of credit, including waiving credit that is
 ordinarily required.

Failure to provide the documentation as listed in these provisions may result in rejection of the bid and award to the next lowest responsible and responsive bidder.

^{*}Minority categories: Black, African American (B), Hispanic or Latino (L), Asian American (A) American Indian (I) Female (F) Socially and Economically Disadvantaged (S) Disabled (D)

Do not submit with the bid Do not submit with the bid Do not submit with the bid Do not submit with the hid

Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with MWBE Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date:	Name of Authorized <u>Officer:</u>
	Signature:
	Title:
(SEAL)	State ofCounty of
	Subscribed and sworn to before me thisday of20
	Notary Public
	My commission expires

LETTER OF INTENT MWBE Subcontractor Performance

Please submit this form or executed subcontracts with MWBE firms after award of contract and prior to issuance of notice to proceed.

ROJECT:				
	(Project	Name)		
O:				
	(Name of	Prime Bidder	/Architect)	
he undersigned intends to perform wor	k in connec	tion with the	shove project as a:	
ne undersigned intends to perform wor	k in comiec	don with the a	noove project as a.	
Minority Business Enterprise	:		Women Business Er	nterprise
The MWBE status of the undersigned is Underutilized Businesses (required)			f Historically	
The undersigned is prepared to perform naterials or services in connection with mount:		_	-	
Work/Materials/Service Provided		Amount of	Projected Start	Projected End
	Co	ntract	Date	Date
	(Date)			
(Address)		(Name & P	hone No. of MWBE Fi	m)
Name & Title of Authorized Representative of I	, mares		Authorized Representati	CA SUPPLY

Do not submit with the bid Do not submit with the bid Do not submit with the bid Do not submit with the bid

REQUEST TO CHANGE MWBE PARTICIPATION

(Submit changes only if notified as apparent lowest bidder, continuing through project completion)

Project:	
Bidder or Prime Contractor:	
Name & Title of Authorized Representati	ve:
Address:	Phone #:
Email Address:	
Total Contract Amount (including appro-	ved change orders or amendments): \$

Name of subcontractor:
Name of Subcontractor.
Good or service provided:
Proposed Action:
Replace subcontractorPerform work with own forces
For the above actions, you must provide one of the following reasons (Please check applicable reason):
The listed MBE/WBE, after having had a reasonable opportunity to do so, fails or refuses to execute a written contract.
The listed MBE/WBE is bankrupt or insolvent.
The listed MBE/WBE fails or refuses to perform his/her subcontract or furnish the listed materials.
The work performed by the listed subcontractor is unsatisfactory according to industry standards and is not in accordance with the plans and specifications; or the subcontractor is substantially delaying or disrupting the progress of the work.

If <u>replacing</u> subcontractor:	
Name of replacement subcontractor:	
The MWBE status of the contractor is certified by the NC Businesses (required)YesNo	Office of Historically Underutilized
Dollar amount of original contract \$	
Dollar amount of amended contract \$	
Other Proposed Action:	
Increase total dollar amount of work Decrease total dollar amount of	Add additional subcontractor Other
Please describe reason for requested action:	
If <u>adding*</u> additional subcontractor:	
The MWBE status of the contractor is certified by the NC Businesses (required). Yes No	Office of Historically Underutilized
*Please attach Letter of Intent or executed contract documents	ment
Dollar amount of original contract \$	
Dollar amount of amended contract \$	

Interoffice Use Only:
Approval_Y_N
Date
Signature

Do not suching what the old Do not suching what the old Do not suching what the old Do not suching what the	Do not submit with the	e bid Do not submit with t	he bid Do not submit with t	he bid Do not submit with the bid
---	------------------------	----------------------------	-----------------------------	-----------------------------------

Pay Application No
Purchase Order No

Proof of Payment CertificationMWBE Contractors, Suppliers, Service Providers

Project Name:				
Prime Contractor:				
Current Contract Amount (including change)	ge orders): \$			
Requested Payment Amount for this Perio	d: \$			
Is this the final payment?Yes	_No			
Firm Name	MWBE Category*	Total Amount Paid from this Pay Request	Total Contract Amount (<u>including</u> changes)	Total Amount Remaining
*Minority categories: Black, A		lispanic or Latino (L), Asian American omically Disadvantaged (S) Disabled (I		nale (F)
Date:	Certified By	TName		
		Title		
		Signature		

SECTION 007200 GENERAL CONDITIONS

FORM OF GENERAL CONDITIONS

1.01 THE GENERAL CONDITIONS APPLICABLE TO THIS CONTRACT ARE AS FOLLOWS.

- A. . AIA Document A232, General Conditions of the Contract for Construction, is the General Conditions of the Contract for Construction, Construction Manager as Adviser 2019 Edition B. The General Conditions applicable to this contract is attached following this page.

1.02 RELATED REQUIREMENTS

A. SECTION 00 7300 - Supplementary Conditions.

1.03 SUPPLEMENTARY CONDITIONS

A. Refer to document 00 7300 - Supplementary Conditions for amendments to these general conditions.

RELATED REQUIREMENTS

3.01 SECTION 007300 - SUPPLEMENTARY CONDITIONS.

END OF SECTION



SECTION 007300 SUPPLEMENTARY CONDITIONS

PART 1 GENERAL

1.01 SUMMARY

- A. These Supplementary Conditions amend and supplement the General Conditions defined in Document 007200 General Conditions and other provisions of Contract Documents as indicated below. Provisions that are not so amended or supplemented remain in full force and effect.
- B. The terms used in these Supplementary Conditions that are defined in the General Conditions have the meanings assigned to them in the General Conditions.
- C. All work required by these Specific Project Requirements shall be included in the Subcontract Documents. In case of conflicts between the Specific Project Requirements and other Subcontract Documents, the more stringent requirements shall govern as determined and directed by the Contractor.
- D. Subcontractor will be required to attend preconstruction meetings, progress meetings and other meetings to review the Project. Items to be discussed during the progress meetings shall include, but are not limited to, schedule, safety, coordination issues, quality, security, RFI's, changes to the work etc as set forth below.

1.02 WORK HOURS

A. Normal working hours on the project are Monday through Friday, 7:00 a.m. to 5:00 p.m. Contractor has the right to amend work hours as required or necessary to maintain project schedule or as seasonal and/or site work conditions warrant.

1.03 ELECTRONIC PROJECT CORRESPONDENCE AND COMMUNICATION

- A. Project communications and correspondence will occur electronically. This will include all project correspondence, meeting minutes, change documents, schedules, payment applications, submittals, etc.
- B. Subcontractors will be required to have internet access and to maintain an email address (of sufficient file size to receive drawings and .pdf files) for the purpose of managing communication and documents during the construction stage.
- C. A Project W eb site administered by the Contractor will be used for purposes of managing communication and documents during the construction stage.
- D. Subcontractors will be required to utilize field online collaboration software to input, respond and/or update information as required for jobsite observations and issue tracking and resolution such as safety audits, quality documentation, punch lists and coordination of Cx activities. Use of this software may require administration through field tablet or mobile devices provided by the Subcontractor for associated activities.

1.04 BUILDING INFORMATION AND OTHER ELECTRONIC DATA

- A. The Architect and Contractor may utilize and provide the Subcontractor Building Information Modeling or other electronic data ("Electronic Data") for use in the Subcontractor's work during the course of the Project.
- B. The Electronic Data will be provided for informational purposes only. Subcontractor cannot not use or attempt to use the Electronic Data for any other project or purpose other than in connection with this Project.
- C. The Electronic Data shall not replace or supersede the record hard copy set of the drawings and other Subcontract Documents ("Paper Documents"). In the event of a conflict between the Paper Documents and the Electronic Data, the Paper Documents shall govern.
- D. Prior to receiving any Electronic Data, Subcontract will be required to complete and execute the Electronic Data Release included as Attachment A to this section or the Release required by the Architect if obtaining Electronic Data directly from the Architect or other design professional.
- E. See the attached 3D BIM Models Coordination Program included as Attachment B to this section.
- F. Subcontractor shall pay any fees for electronic files as defined in other Sections.

1.05 SUBMITTALS

- Refer to Division 01, Section "Submittal Procedure" for Specific Contract Requirements Regarding Submittals.
- B. Subcontractors are to submit all Shop Drawings, Product Data and Samples ("Submittals") to the Contractor bearing the Subcontractor's stamp indicating conformance to the Subcontract Documents and shall be signed by Subcontractor's representative.
- C. Subcontractor is to submit the following to the Contractor:
 - 1. Shop Drawings in PDF format via electronic files.
 - 2. Product Data in PDF format via electronic files.
 - 3. Samples 3 each of each differing type.
- D. Coordination Drawings in PDF format via electronic files.
 - 1. Contractor will return to the subcontractor:
 - 2. Shop Drawings in PDF format via electronic files.
 - 3. Product Data in PDF format via electronic files.
 - 4. Samples 1 each of each differing type.
- E. Subcontractor is required to forward Submittals to Contractor in a timely fashion for Contractor and Architect's review so as to maintain the Project Schedule. If a Submittal requires expediting to maintain the Project Schedule, a return date needs to be so noted on the transmittal.
- F. Subcontractor is to forward all Submittals and Shop Drawings in electronic format hard copies will not be accepted. Samples are to be clearly marked indicating appropriate information. All Submittals forwarded to Contractor are to be accompanied by a transmittal form/letter indicating quantity and description of information provided.

1.06 RECORD DOCUMENTS

- A. Refer to Division 01, Section "Submittal Procedures" for Specific Contract Requirements regarding Submittals.
- B. The Subcontractor is required to maintain at the Project site for the Contractor's and Owner's review current versions of the following:
 - 1. Drawings
 - 2. Specifications
 - 3. Addenda
 - 4. Change Orders
 - 5. Other Change Directives
 - 6. Approved Shop Drawings, Product Data and Samples
 - 7. Field Test Reports
 - 8. Meeting Notes
- C. Subcontractors will provide electronic redline drawings, specifications, submittals, etc. with "As-Built" information and return to the Contractor via CD or in PDF format via electronic files when the Subcontractor is substantially complete with its work.

1.07 PAYMENT PROCEDURES

- A. Refer to Division 01, Section "Payment Procedures" for specific contract requirements regarding Payment Procedures.
- B. Schedule of Values
- C. The Subcontractor will submit to the Contractor a Schedule of Values that includes all major categories of its work. Dollar amounts are to include all labor, material, overhead and profit applicable to each item in the breakdown. Submit an electronic project Schedule of Values on an AIA Form G703 Application and Certificate of Payment Continuation Sheet.
- D. Submit an electronic Schedule of Values within seven (7) calendar days] after the date established in Notice of Award. The Schedule of Values shall list the installed value of the component parts of the work, broken down in sufficient detail to serve as a basis for computing values for progress payments during construction. The Schedule of Values should be broken down by area, building, floor, etc. in sufficient detail to evaluate progress payments. No payments will be processed prior to receipt of an approved Schedule of Values.
- E. Add approved Change Orders to the electronic Schedule of Values for submission with each Application for Payment. List Change Orders in numerical sequence with a brief description of

the change, with a reference to Contractor's Change Order No.

- F. No progress payments will be made until the electronic Schedule of Values has been received, reviewed and approved by the Contractor and Owner. The costs assigned to the breakdown are to total the Subcontract Sum. The approved Schedule of Values is to be used by the Subcontractor on all Applications for Payment.
- G. Application for Progress Payments
 - At a time consistent with the requirements of this section and the Subcontract Documents, and for each calendar month during the progress of the Work, the Subcontractor shall submit a properly notarized itemized Application for Payment prepared in a manner consistent with the Schedule of Values.
 - 2. The amount shown on the Application for Payment shall be established by adding the
 - 3. value of work completed through the last day of the application period based upon the Subcontractor's estimate of labor and materials to be incorporated in the W ork by that date, and the value of the material/equipment suitably stored in accordance with the Subcontract Documents, less the aggregate of previous payments, and less the retainage as specified in the Subcontract.
- H. The form of application for payment shall be the AIA Document G702, "Application and Certificate for Payment", supported by AIA Document G703, "Continuation Sheet".
- I. Application Form. To sufficiently complete this form, the Subcontractor shall:
 - 1. Fill in all required information, including that for change orders executed prior to the date of submittal application.
 - 2. Fill in the summary of dollar values to agree with the respective totals indicated on the continuation sheet.
 - 3. Execute certificate with the signature of a responsible officer of the contractor's firm.
- J. Continuation Sheets. To sufficiently complete this form, the Subcontractor shall:
 - Fill in total list of all scheduled component items of work, with each number and the scheduled dollar value of each item.
 - 2. Fill in the dollar value in each column for each scheduled line item when work has been performed or products stored. Round off values to nearest dollar, or as specified in the Schedule of Values.
 - 3. List each change order executed prior to the date of submission, at the end of the continuation sheets. List by change order number, proceed order no., description, and breakdown of costs as for an original component item of work.
- K. Substantiating Data for Progress Payments
 - 1. Substantiating data is required to verify a payment request. Subcontractors are to include a cover letter identifying the:
 - a. Project.
 - 1) Application number and date.
 - 2) Detailed list of enclosures.
 - 3) In order to bill for stored materials, Subcontract is required to provide certain documentation and adhere to specific procedures as follows:
 - (a) [if !vml][endif]Subcontractor shall mark and identify the subject materials and/or equipment and shall segregate from and shall not commingle such goods with other goods held by the Subcontractor.
 - (b) [if !vml][endif]Subcontractor shall submit evidence of insurance coverage on the material and/or equipment while stored at its warehouse or other approved facilities, naming Contractor and the Owner as Additional Insureds.
 - (c) [if !vml][endif]Subcontractor shall complete and submit a Bill of Sale form endorsed by a corporate officer or owner. The validity of the Bill of Sale is subject to Subcontractor's receipt of payment as referred to therein. A copy of the Bill of Sale is included in Section 00 62 00.
 - (d) [if !vml][endif]Subcontractor shall complete and submit a Non-negotiable Bailment Receipt. A copy of the approved Non-negotiable Bailment Receipt is included in Section 00 62 00.
 - 2. Submit one copy of the data cover letter for each of the applications.

- 3. Applications for Payment shall be accompanied by cost breakdowns from the subsubcontractors, the previous billing month's waivers from the sub-subcontractors and Material Suppliers, as applicable.
- 4. When the Contractor finds the application properly completed and correct, it will transmit two (2) Certificates for Payment to the Architect to be certified for payment.
- 5. Payment Application Documents:
 - a. Cover Letter
 - b. G702 and G703
 - c. Subcontractor And Supplier Partial waiver And Affidavit
 - d. Non-negotiable Bailment Receipt (if stored material is being billed)
 - e. Bill of Sale (if stored material is being billed)
 - f. Evidence of Insurance covering the stored material

L. Application for Final Payment

- 1. Submit final Application for Payment following the procedures specified above for progress payments as set forth in the Subcontract Documents.
- 2. Before submitting a final Application for Payment, the Subcontractor will be required to forward to the Contractor for submittal to the Architect, the written warranties and guarantees, Record and Information Manuals, and other documents required by the Contract (or Subcontract) Documents, and placed properly in approved storage at the site the extra stock and spare parts specified. Subcontractor will obtain the signature of the Contractor verifying receipt of the extra stock and spare parts.
- 3. Properly executed "Subcontractor And Supplier Final W aiver And Affidavit" shall be submitted to the Contractor in duplicate prior to final payment.

1.08 CHANGES AND/OR CLARIFICATIONS

- A. Request for Information (RFI)
 - 1. If during the construction of the Project, clarification of the documents is required, it shall be brought to the attention of the Contractor. (Refer to Division 01, Section "Project Management and Coordination" for specific Contract requirements regarding RFI's.).
 - 2. The Contractor will either provide clarification or forward a Request for Information (RFI) to the Architect. These RFI's shall be dated and sequentially numbered. The Architect shall provide its written response to the RFI and return to the Contractor for distribution to all affected subcontractors or suppliers.
 - 3. If the RFI requires additional compensation, a response to an RFI is not an authorization to proceed with work. If additional compensation is required, the Subcontractor shall immediately advise the Contractor who will review the item with the Architect and Owner to determine if a Proposal Request will be issued.

B. Proposal Request (PR)

- Should the Owner contemplate making a change in the work, the Architect will issue a Proposal Request (PR) to the Contractor. (Refer to Division 01, Section "Contract Modification Procedures" for specific Contract requirements regarding Proposal Requests.)
- 2. All PR's will be reviewed and forwarded to the affected Subcontractors and Suppliers for review. Each Subcontractor will determine if the PR affects its Scope of W ork. If the described change impacts cost and/or time, the Subcontractor or Supplier shall immediately prepare a proposal for submission to the Contractor. The Subcontractor's proposal shall be broken down completely so as to identify all quantities and associated unit costs (both adds and deducts). The Contractor will review the pricing with the Owner and Architect to determine if a change order will be issued. Subcontractors are not to proceed with additional work until written authorization has been received.

C. Change Orders (CO)

1. If the Owner determines that a Proposal Request will be accepted, the Architect will prepare a Change Order (CO) which will be dated and numbered sequentially. (Refer to Division 01, Section "Contract Modification Procedures" for specific Contract requirements regarding Change Orders.).

- 2. The Change Order will describe the change or changes, will refer to the Proposal Request and proposal number, and will be signed by the Owner, the Architect and the Contractor.
- D. Construction Change Directives (CCD)
 - 1. Refer to Division 01, Section "Contract Modification Procedures" and other Subcontract Documents for specific Contract requirements regarding Construction Change Directives (CCD). Construction Change Directive instructs the Contractor to proceed with a change in the work prior to concluding Contract adjustment negotiations.
- E. Submission Of Proposals For Change Order Follow other Contract Document requirements if more stringent than the requirements listed in this section.
 - 1. Labor Rate Breakdown:
 - a. Base Rate Calculation: All Subcontractors will be required to substantiate all labor rates (for all skill levels and tradesmen) as actual cost plus allowable overhead and profit, prior to submitting change order pricing. Breakdowns shall include: base labor rate, fringes, union dues, payroll taxes and insurance. Any item not falling into one of these categories will be considered overhead and shall be included in the fee limits listed below.
 - b. Premium on Overtime Rate Calculation: In the event overtime work is requested by the Contractor (not required by the Contract Documents or due to the fault of the Subcontractor), the premium on the overtime rate will be required to be substantiated as actual cost plus allowable overhead and profit. Breakdowns shall include: half of base labor rate, only the overtime premium portion of any applicable union fringes, and payroll taxes and insurance (excluding workers compensation insurance which is not paid on the premium portion of overtime). Any item not falling into one of these categories will be considered overhead and shall be included in the fee limits listed below.

F. Method of Proposal:

- 1. Comply with the requirements of this section and all other contract requirements.
- Include a direct reference to the change document in the proposal description. If the
 request is not linked to a change document, a full and thorough description of the work
 and the reason for the change order request is required. Change requests not in this
 format will not be reviewed.
- 3. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
- 4. Indicate applicable taxes, delivery charges, equipment rental (rates and hours), and amounts of trade discounts.
- 5. Include costs of labor and supervision (as allowed by contract provisions) directly attributable to the change. Provide crew information including, labor rate for each skill level and trade, number of man-hours including estimating program back-up substantiating those hours.
- 6. Provide proposal detail and estimate which defines the type or area of work (i.e. Concrete: concrete walls, grade beams, piers, sidewalks, etc., Drywall: metal studs, rock, finishing, etc.).
- 7. Include substantiating back-up from second tier Subcontractors and Material Suppliers equal to the requirements of the Subcontractor proposal as described in this section.
- 8. Include all fee itemized separate from the detail described herein and in the limits described in this section
- Include an updated Subcontractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- 10. Review and approval of a Subcontractors proposal for change order does not alleviate Subcontractors responsibility to provide accurate estimating, i.e. acceptance of pricing does not constitute acceptance of quantities, unit prices, man-hours, etc.
- G. Fee Limits:

- 1. Fee includes all general requirements, all supervision (including project management and general on site supervision), overhead and profit.
- The following fee percentages shall be used for lump sum pricing and actual cost pricing of additions and deletions to the work:
 - a. To sub for work performed by own forces: not to exceed 10%
 - b. To sub for work performed by other than own forces: not to exceed 5%
 - To second tier subcontractor/material supplier for work performed by subcontractor's own forces: not to exceed 10%
 - d. To second tier subcontractor/material supplier for work performed by other
 - than subcontractor's own forces: not to exceed 5%

H. Pricing Validation:

3.

 If the Work associated with a Subcontractor requested change order is performed, and in the opinion of the Owner, Architect, or Contractor, the W ork does not adequately reflect the breakdown provided during pricing of the change, the Subcontractor may be asked and shall be required to substantiate man-hours, equipment, quantity, etc, to validate the change order pricing.

1.09 PROJECT MEETINGS

A. Pre-Phase Meeting

- General Contractorwill schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect.
 - The conference will be conducted to review responsibilities and personnel assignments.
 - b. Authorized representatives of Owner, Contractor, Architect, and their consultants; Subcontractor(s) and their superintendent; major sub-subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the W ork.
 - c. Contractor will discuss items of significance such as administrative items, procedural issues, site usage and requirements, schedule, jobsite rules and regulations, etc.

2. Progress Meetings

- a. Progress Meetings, chaired by the Contractor, will be held regularly, on a weekly or bi- weekly basis as required to support the schedule. Attendance by the Subcontractor's onsite superintendent will be mandatory; however, an authorized representative of the Subcontractor, who can make decisions on the Subcontractors' behalf, must be present. At the direction of the Contractor, key Suppliers, subsubcontractors and supervisors will be required to participate in the coordination and discussions and give summary reports of their activities.
- b. The progress meeting gives the Subcontractor the opportunity to discuss with the Contractor any problems or potential problems arising out of the Project. Each Subcontractor shall attend progress meetings as requested by the Contractor and shall come to the meeting prepared to discuss its work status and how it relates to the project schedule.
- c. The project schedule will be updated by the Contractor as indicated in the Project Manual and presented at the progress meetings. Each Subcontractor will be expected to discuss, as a minimum, the status of shop drawings, material and equipment delivery, job progress and quality control.
- d. Refer to Division 01, Section "Project Management and Coordination" for additional contract requirements regarding meetings.

B. Pre-Installation Conference

- 1. Contractor will conduct a pre-installation conference at Project site before each construction activity that requires coordination with other construction.
- 2. Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. All Contractors (including field superintendents and/or foremen) performing or directly affected by a particular scope of work will be required to attend.

3. Contractor will prepare the meeting agenda. Items for discussion will include review progress of other construction activities and preparations for the particular activity under consideration.

C. Coordination Meetings

 Contractor may conduct additional Project coordination meetings as needed to resolve issues or coordinate upcoming work. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and pre-installation conferences.

D. MEP Overhead Coordination Meetings

- Contractor shall host MEP overhead coordination meetings as required by this Section.
 While the MEP Subcontractor(s) shall have primary responsibility, all Subcontractors
 whose work impacts or is impacted by the MEP work will be required to attend applicable
 meetings
- 2. Subcontractors shall comply with the coordination program identified in Attachment B to this Section.

1.10 PROGRESS SCHEDULE

- A. Contractor will prepare a critical path schedule for construction including actual construction activities, submittals for major components, procurement of materials and equipment, and testing of major building systems and periodically update the progress schedule throughout the Project. (Refer to Division 01, Section "Project Management and Coordination" for specific contract requirements regarding scheduling.)
- B. Each Subcontractor is to submit within seven (7) calendar days after receiving its Notice to Proceed and prior to the preconstruction meeting, a schedule indicating durations for submittals, fabrication, delivery and installation of the components for its Scope of Work. This information will be utilized in the completion of the progress schedule presented at the progress meeting.
- C. As changes occur in the schedule information provided by the Subcontractors, the Subcontractor is responsible for forwarding the information to the Contractor immediately. The Contractor will utilize this information in issuing updates to the progress schedule.
- D. The Subcontractor it will substantially complete the work in accordance with the schedule developed by the Contractor. A construction milestone schedule has been included in Section 00 31 00. A detailed project schedule is available at Contractor's office and is available for review by all Subcontractors.
- E. The Subcontract hereby agrees to commence work under the Contract within seven (7) days after the date of a Notice to Proceed, unless otherwise stipulated in that notice.
- F. Substantial Completion of the w ork: The Subcontractor will have the work ready for either the following subcontractor's work or the final inspection and Owner's acceptance within the time.limit stated in the Schedule and as defined in the scopes of work (reference Section 00 24 00).

1.11 GENERAL REQUIREMENTS FOR WORKMANSHIP

- A. Manufacturer's requirements shall be strictly followed for storage, preparation, installation, cleaning, protecting and testing of all products and materials except where specific requirements included in appropriate Sections in exceed those requirements Where conflicts between manufacturer's requirements and Subcontract Documents occur, Subcontractor shall notify Contractor and request resolution prior to proceeding.
- B. The Subcontractor is required to inspect jobsite, coordinate with other trades and field verify dimensions where applicable prior to fabricating product or material.
- C. Manufacturer's requirements and industry standards are to be followed in regards to the effect of temperature, moisture and humidity on products and materials.
- D. Materials and equipment are to be installed plumb, level and true, with uniform joints and edge conditions, tight seams and neatly fitting adjoining materials, unless specifically shown otherwise.
- E. Materials and equipment are to be installed as dimensioned on the drawings. If dimensions or height are not dimensioned on the drawings, Subcontractor is to issue a RFI to the Contractor requesting location of item in question.

- F. Cleaning of materials and equipment shall be completed in a manner as not to damage the finish.
- G. Equipment and material shall be protected by Subcontractor following installation with labels intact until final cleaning.

1.12 GENERAL REQUIREMENTS FOR PRODUCTS AND MATERIALS

- A. [if !vml][endif]Refer to Division 01, Section "_____" for specific Contract requirements regarding product selection.
- B. Refer to Division 01, Section "Substitution Procedures" for specific Contract requirements regarding substitutions.

1.13 QUALITY CONTROL AND INSPECTIONS

- A. Refer to Division 01, Section "Testing & Inspection Services" for specific Contract requirements regarding testing and inspections.
- B. The Subcontractor shall advise the Contractor's on-site field superintendent of all scheduled tests two (2) working days in advance.
- C. The Subcontractor's quality control representative will review his drawings, procurement documents and contracts to ensure that the technical information provided and all work performed is in accordance with the latest revision of the Subcontract Documents. These documents shall be updated to reflect all changes made through Addenda, Change Orders and Requests for Information.
- D. The Subcontractor's quality control representative will perform an inspection upon receipt at the site, of all materials, equipment and supplies. Items which are damaged or not in conformance with the respective Submittals, quality standards, Subcontract Documents, contract drawings and Specifications, will be identified and segregated from accepted items. Items thus identified will not be incorporated into the W ork until corrective action, acceptable to the Contractor and Architect is completed.
- E. The Subcontractor is responsible for the quality of the work performed by his work force and its sub-subcontractors, as well as the quality of the material, equipment and supplies furnished by the Subcontractor to be incorporated into the work. The Subcontractor will designate a quality control representative who will be on site at all times when work is in progress.

1.14 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

- A. Personnel and Materials Hoisting
 - 1. Crane: The Contractor will not provide a crane for materials hoisting
 - 2. Vertical material and personnel management: The Contractor will not provide a Personnel lift or scaffold stair.
 - 3. Horizontal material management: The contractor will not provide a forklift for subcontractors. Subcontractors are responsible for personnel equipment needs.
 - 4. Scaffolding: The Subcontractor shall provide all scaffolding (unless noted otherwise) required to complete its work.
 - 5. Lifts: The Subcontractor shall provide all lifts and other necessary equipment (unless noted otherwise) required to complete its work.
 - 6. Temporary Stairs: Until permanent stairs are available, each subcontractor will provide access on multi-floor projects.

B. Disposal and Trash Removal

- All Subcontractors shall comply with the requirements of Attachment D, "Construction Waste Management and Disposal."
- 2. The Contractor will provide dumpsters for Subcontractors use. Dumpsters may be Subcontractor will clean up and remove to designated points at the site, daily and as
- 3. Subcontractor will clean up and remove to designated points at the site, daily and as directed by the Contractor, all rubbish and debris resulting from the Subcontractor's work and shall clean up its work to the satisfaction of the Contractor.
- 4. Subcontractor shall maintain one (1) laborer for clean-up purposes for every ten (10)
- 5. In the event the Subcontractor fails to clean up in accordance with the directions, the Contractor, after twenty-four (24) hours written notice to the Subcontractor, reserves the right to arrange otherwise for the clean up to be done and charge the Subcontractor the cost.

- 6. Subcontractors shall ensure that all boxes, cartons, etc. are crushed to the minimum volume prior to placing in the trash containers or trash collection areas.
- 7. No paint cloths will be allowed in trash containers.
- 8. The disposal of any material, waste, effluents, trash, garbage or oil, grease, chemicals, etc. resulting from either demolition or new work, shall be disposed of in accordance with all applicable laws and shall be subject to the approval of the Contractor.
- Contractor will coordinate progress cleaning for joint-use areas where more than one installer has worked.
- 10. An area will be designated for lunch and breaks. All food or drink, other than water, consumed on site must be in this pre-approved area and all waste disposed of in trash receptacles furnished by the Contractor. All food and drink, other than water, is prohibited in any other work area.

C. Temporary Toilets

Temporary toilet facilities shall be furnished, and maintained as required by Contractor.
 The toilets shall be in sufficient number and at various locations to accommodate the workforce. The use of these toilet facilities by all members of the workforce is mandatory.

D. Temporary Water

- 1. Owner will pay all water utility bills on the project.
- The Plumbing Subcontractor will provide and maintain temporary potable water for the other Subcontractors' use throughout the building and at the jobsite as determined by Contractor
- Subcontractor requiring additional temporary water service will be responsible to make arrangements for this work through the Plumbing Subcontractor and be subject to the approval of Contractor. Associated cost of additional water service will be paid by the Subcontractor requesting the service.
- 4. It will be the responsibility of the Subcontractor utilizing temporary water to protect the Project against water damage. W hen using water, Subcontractor is required to use new materials and replace worn or broken parts. Hoses, fittings, etc. that are leaking shall be removed. Subcontractor will be responsible for the cost of damages arising from violation of this policy.
- 5. Temporary water service shall be drained down and reactivated as required by the Plumbing Subcontractor to prevent freezing.
- 6. No bulk water will be provided.

E. Temporary HVAC

- Temporary HVAC work includes, but is not limited to, caps for ductwork, temporary filters and filter media, necessary equipment warranty extensions, interim controls, fire watch, temporary stand alone smoke detectors for fan shut-down, ventilation and humidity control, monitoring of temperature and humidity, manual control of dampers (if required) and final clean-up of mechanical systems upon completion of construction work.
- Ventilation and humidity control includes, but is not limited to, temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption. Relative humidity shall be controlled as required to reduce substrate moisture levels to level required to allow installation or application of finishes.
- 3. Heat required for specific work-oriented situations is to be provided by each subcontractor for its needs (i.e. masonry, EFIS, etc). General heating for creature comfort will not be provided by the Contractor.
- 4. Reference project specific temporary HVAC plan for the timeline of temporary conditioning inside the building.
- 5. Project Specific Temporary HVAC plan
 - a. Mechanical subcontractor will not need to provide temporary heat and cooling (including ventilation and humidity control) during construction.
 - b. New and/or existing systems: The Owner will allow the use of new or existing heat/cooling for temporary heating and cooling.
 - c. Rental equipment for temporary conditioning:

- If the Owner will not allow use of the existing or new systems for temporary heating and cooling (as previously defined) the contractor will provide temporary (including all equipment, fuel, and fire watch as required) to maintain both temperature and humidity. Any specific requirements for Subcontractors will be defined in the scope of work in section 00 24 13.
- 2) If permanent HVAC systems are not available when required as defined in this section (due to Subcontractor not maintaining the Milestone Schedule), Mechanical Subcontractor shall provide temporary units (including all equipment, fuel, and fire watch as required) to maintain both temperature and humidity. Fire watch will be required for any temporary heating equipment. If temporary units are utilized, Mechanical Contractor shall coordinate and include electrical costs associated with powering units. Coordinate type of temporary heating and cooling with the temporary electrical service or other utility capacities available at the time temporary heating and cooling is required. Verify electrical capacities with Electrical Contractor prior to selecting and installing heating and cooling system.
- d. Utility Charges for permanent equipment: Owner will pay for utility charges incurred as a result of operating permanent equipment for temporary HVAC.
- e. Utility Charges for rental equipment: Subcontractor will pay for utility charges incurred as a result of operating rental equipment for temporary HVAC. Fuel charges will be the responsibility of the subcontractor providing the equipment.
- f. Monitoring: During temporary conditioning site conditions shall be monitored. The Contractor will provide data loggers to perform this function. A sling-psychrometer may also be used as they are recognized by the HVAC industry to provide accurate readings.
- g. Humidity control: A heating load may be required to control relative humidity during summer conditions. In humid climates it may be necessary to provide additional moisture removal using dehumidification systems.
- h. Mechanical Subcontractor shall coordinate electrical requirements for temporary HVAC with the Electrical Subcontractor and other affected Subcontractors
- i. Reference Section 15.11 regarding safety issues during temporary conditioning/temporary heat.
- j. Use of permanent systems
 - 1) Subcontractors shall include necessary warranty extensions for all equipment utilized during temporary HVAC.
 - 2) Equipment safeties: Mechanical subcontractor shall provide stand alone fire alarm devices for AHU shut down as required for temporary heating and cooling. Coordinate any other fire alarm requirements with the Electrical Subcontractor. Other safeties may be required if circumstances dictate, such as: a high static safety on the leaving side of the fan ahead of first fire smoke damper to protect the duct work, a low pressure static safety on return duct applications with a return fan, freeze protection along with control sequences to protect water coils. The leaving air temperature must be below dew point (approximately fifty-five (55) degrees farenheit) to provide adequate moisture removal. Discharge air temperature must remain constant due to the use of 100% outside air.
- 6. Reference Attachment C, "Construction Indoor Air Quality" for cleanup guidelines, ductwork cleanliness, and temporary heating and cooling guidelines for maintaining proper indoor air quality.
- 7. Reference Attachment E, "Special Project Procedures for Healthcare Facilities" for infection control requirements for HVAC systems.
- F. Temporary Electrical (Power, lighting, fire alarm)
 - 1. Owner will pay usage costs for electrical power.
 - 2. Electrical Subcontractor will furnish, install, relocate, maintain and remove all necessary temporary wiring, lighting fixtures, protective devices, distribution panels, and transformers, etc. required for construction purposes conforming to rules and regulations of OSHA as well as other agencies having local jurisdiction. W ork includes electrical power service and distribution system of sufficient size, capacity, and power

characteristics required for construction operations. Electrical Subcontractor shall coordinate temporary power requirements for trailers, equipment, and other special needs as required to execute the work. Reference paragraph 14.1 of this section for specific equipment. Each Subcontractor shall coordinate any further special temporary electrical requirements with Electrical Subcontractor.

- 3. Electrical Subcontractor shall make all necessary arrangements with the utility company to provide temporary service. All electrical connections must meet local code requirements.
- 4. All Subcontractors will be responsible for their power extension cords from the temporary panels to their work areas. These cords shall be three wire (including ground wire) of sufficient capacity for service intended and fully approved by all governing bodies.
- Each Subcontractor shall coordinate and pay for any further special temporary electrical requirements with the electrical subcontractor. Approval shall be provided by the Contractor.
- Electrical Subcontractor shall provide temporary lighting with local switching that provides requirements with the electrical subcontractor. Approval shall be provided by the Contractor.
- 7. Electrical Subcontractor shall provide temporary lighting that fulfills security and protection requirements without operating entire system.
- Additional temporary light requirements (task lighting) shall be the responsibility of individual Subcontractors.
- 9. When required by code or by the Owner, Electrical Subcontractor shall provide temporary fire alarm system tied into existing fire alarm control panel. This temporary system shall be completed and functional at all times. No part of the temporary system shall be used for the permanent system. W ork includes removal and maintenance of the temporary system.

G. Temporary Communication Systems

1. Contractor will contract to erect and maintain a construction fence around the perimeter of the site and staging area as indicated on the site access plan. Fence gates will be located to provide access/egress as determined by Contractor. Subcontractor shall not remove sections of the fence without approval from Contractor. Subcontractors granted approval to remove a portion of the construction fence will be responsible to replace and restore those sections to the satisfaction of Contractor. Reference site access plan section 00 30 00 for further detail.

H. Construction Fence

1. Contractor will contract to erect and maintain a construction fence around the perimeter of the site and staging area as indicated on the site access plan. Fence gates will be located to provide access/egress as determined by Contractor. Subcontractor shall not remove sections of the fence without approval from Contractor. Subcontractors granted approval to remove a portion of the construction fence will be responsible to replace and restore those sections to the satisfaction of Contractor. Reference site access plan section 00 30 00 for further detail.

I. Temporary Onsite Structures

- Each Subcontractor shall make its own arrangements with the Contractor for office facilities as designated by the site access plan. Subcontractor shall provide, maintain andremove his own offices and storage facilities.
- 2. Temporary power, telephone and water service requirements to its onsite structures shall be the responsibility of the individual Subcontractors. Services will be provided to a central location per the logistics plan for use by the Subcontractors.

J. Storage

- Onsite storage shall not be allowed except as specifically approved by the Contractor and as defined in the Scope of Work. Contractor will not assume any responsibility for any stored materials.
- 2. If it becomes necessary at any time during construction to move materials which are to enter into construction or equipment and barricades which have been temporarily placed, the Subcontractor furnishing these materials, equipment or barricades shall, when

directed by the Contractor, move them or cause them to be moved without additional charge to the Contractor

K. Temporary Enclosures

1. Any in progress or recently completed portions of work requiring protection from exposure to foul weather and detrimental operations shall be protected by the Subcontractor performing that work.

L. Fire Protection

1. Contractor will provide fire extinguishers of proper type and number as required. Subcontractor shall provide firewatch as required to perform its work. Notify Contractor and Owner when welding, cutting or any activity that could create a fire hazard.

M. Survevina

- [if !vml][endif]Benchmarks will be established and maintained by the Contractor. Any inconsistencies found in dimensions or elevations shall be reported to the Contractor before proceeding with work. (Refer also to Division 01, Section "_____" for specific Contract requirements regarding layout and examination.)
- N. Site and Area Restrictions Reference site access plan described in Section 00 30 00.
 - Access and egress to and from the site is under the control and direction of Contractor. All Subcontractors will be responsible for advising Contractor of their delivery schedules and will coordinate the work of various Subcontractors as to minimize delays.
 - 2. Please refer to the site logistics plan for temporary staging and contractor parking.
 - 3. Construct and maintain temporary roads, crane roads and pads, and paved areas adequate for construction operations as described in the site access plan. At a time directed by the Contractor, remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. The mass grading contractor shall be responsible for temporary roads and/or pads specifically detailed on the site access plan. Each Subcontractor is responsible for temporary roads and/or crane roads and pads if not detailed on the site access plan as by others.
 - 4. Traffic Controls: Each Subcontractor shall provide traffic controls for their Work. Comply with requirements of authorities having jurisdiction. Protect existing site improvements to remain including curbs, pavement, and utilities. Maintain access for fire-fighting equipment and access to fire hydrants.

O. Water and Snow Removal

- 1. Dewatering Facilities and Drains: Each Subcontractor will be required to maintain the project site, excavations, and construction free of water to maintain progress of the work. Comply with requirements of authorities having jurisdiction.
- 2. Pump water and push water: Each Subcontractor will be required to remove water as required to maintain progress of the work.
- 3. [if !vml][endif]Snow and Ice Removal: Each Subcontractor will be required to remove snow and ice as required to maintain progress of the work. The use of calcium chloride as an aid or means to remove snow or ice will not be permitted.

P. Security And Protection Facilities Installation

- 1. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to authorities having jurisdiction and Contract Documents. Primary responsibility for the stormwater and erosion control will be the mass grading contractor. To the extent other Subcontractor's work will result in additional land disturbance or affect erosion control measures in place, the subcontractor shall comply with the requirements of the Subcontract Documents and the authorities having jurisdiction.
- 2. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains. Primary responsibility for this Work will be the mass grading contractor. To the extent other Subcontractor's work will result in additional land disturbance or affect erosion control measures in place, the subcontractor shall comply with the requirements of the Subcontract Documents and the authorities having

jurisdiction.

- 3. Tree and Plant Protection: Not needed
- 4. Barricades, W arning Signs, and Lights: Comply with requirements of authorities having jurisdiction (and as required for adequate pedestrian and traffic safety) for erecting structurally adequate barricades, including warning signs and lighting.
- 5. Temporary Egress: Maintain temporary egress from existing occupied facilities as
- 6. Temporary Partitions: Contractor if required shall provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner from fumes and noise. Construct dustproof partitions with gypsum wallboard with joints taped on occupied side. W here fire-resistance-rated temporary partitions are indicated or are required by authorities having jurisdiction, construct partitions according to the rated assemblies.
- 7. Site Security: Site security will not be provided on the project.

1.15 SAFETY

A. General

- 1. Safety on the project site is a primary concern to the Owner and Contractor. Each Subcontractor is responsible for the safety and security of its employees.
- 2. All Subcontractors and lower tier subcontractors are required to follow all of Contractor's safety requirements, OSHA, state and local safety regulations.
- 3. Each Subcontractor is responsible for providing the proper training and equipment necessary to ensure that their employees follow all of Contractor's safety requirements, OSHA, state and local safety requirements.
- 4. Each Subcontractor is responsible for inspecting their work areas periodically throughout the day for recognizable safety hazards and for taking immediate corrective actions to provide a safe work environment at the site.
- 5. Safety Representative Each Subcontractor will assign a competent individual to act as the Subcontractor's safety representative. This individual must be on site and have the authority to immediately correct hazardous conditions. The name of the on-site representative shall be submitted to the Contractor prior to the Subcontractor beginning work.

B. Disciplinary Policy:

- Failure to follow safety requirements may result in disciplinary action up to and including the removal and replacement of employees and site foreman per Contractor's safety policy.
- 2. Each Subcontractor is responsible for replacing foreman and employees who are unable correcting Subcontractor to take action and a back charge may be issued to the creating contractor.
- 3. Each Subcontractor is responsible for enforcing its safety program and OSHA requirements as it relates to their work at the project.
- Failure to correct safety issues in a timely manner may result in Contractor directing a
 correcting Subcontractor to take action and a back charge may be issued to the creating
 contractor.

C. Training requirements:

Copies of all training must be forwarded to the Contractor's site office. This documentation
must include a detailed description of the items covered in the training and the signatures
of the attendees.

D. Orientation:

1. Each Subcontractor is responsible for providing each of its employees with an orientation prior to the start of work to familiarize its employee with the site, site safety requirements and specific safety policies and procedures as it applies to their work. Copies of all orientations must be forwarded to the Contractor's site office. This documentation must include a detailed description of the items covered in the orientation and the signatures of the attendees.

E. Task specific training:

- 1. Task specific training must be provided by each Subcontractor to ensure that each employee knows how to perform their work in a safe manner.
- 2. Task specific training must be conducted following the identification of a safety issue concerning a particular crew and weekly at a minimum.

F. MSDS:

1. A copy of the MSDS program including a written program and a copy of the MSDS sheets for all products that will be used at the project must be provided to the Contractor prior to the start of Subcontractor's work at the Project.

G. Personal Protective Equipment:

OSHA approved hard hats shall be worn by all personnel and visitors on the jobsite at all times. Proper clothing shall be worn, suitable for construction work. Shirts and long pants shall be worn at all times. Durable work shoes are required; canvas or leather type athletic shoes and shoes without heels or toes are not permitted. All other personal protective equipment shall be furnished by the Subcontractor to its employees as required.

H. First Aid:

 The Contractor will maintain a first aid center at the Project office. The Contractor will have phone numbers of the local clinics and hospitals posted at all times.

I. Housekeeping:

- 1. Good housekeeping shall be maintained at all times. All stripped lumber shall be safely stacked after nails have been removed or bent down. All stairways, scaffolds, ramps, walkways, and work areas shall be kept clear and clean of trash and material. W ork areas shall be maintained free from accumulation of combustible trash.
- 2. All Subcontractors are responsible for cleaning their work areas each day. Failure to clean work areas each day may result in Contractor directing a correcting Subcontractor to take action and a back charge may be issued to the creating contractor.

J. GFCI:

 Each Subcontractor is responsible for providing GFCI protection for their work when using generators or permanent electrical installations.

K. Temporary Conditioning/Temporary Heat:

When temporary heat must be maintained during non-working hours, a competent person, agreed upon by Contractor, must be present to monitor heating equipment and take all necessary actions to prevent fire or respond to an emergency per the Contractor's Temporary Heat policy (available upon request). Each Subcontractor is responsible for any and all cost associated with this requirement as it applies to their work. Temporary heat is defined as any heating source that is powered by electricity (all types), LP gas, kerosene, fuel oil, and natural gas.

L. Electrical Contractor only:

- 1. All electrical installations must be installed per applicable OSHA and NEC standards.
- 2. Ground Fault Circuit Interrupters must be installed in all temporary installations.
- 3. Lighting must be provided sufficiently and in a timely manner.

1.16 CODE OF CONDUCT

- A. Because this Project may involve working in and around occupied facilities and/or public areas, Subcontractor and all of its employees are required to comply with the following:
 - 1. Subcontractor and its employees are expected to perform their work in a professional manner.
 - 2. Subcontractor is not to converse or talk with employees of Owner. All construction related questions are to be directed to Contractor.
 - 3. Inappropriate language or gestures, profanity, or lewd conduct are strictly prohibited.
 - 4. Tobacco use on the Project site must comply with the Owner's restrictions. If there are no restrictions, tobacco must be kept to a minimum so as to not damage the Project or litter the site. Smoking is restricted to designated areas, if any. Violations of this policy may result in tobacco use being prohibited on the Project site.
 - 5. Subcontractor parking is only allowed in areas designated by Contractor

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B. Violations of this policy could result in immediate dismissal from the site.

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- A. [if !vml][endif]Refer to Division 01, Section "_____" for specific Contract requirements regarding project closeout.
- B. [if !vml][endif]Refer to Division 01, Section "_____" for specific Contract requirements regarding warranties.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED

END OF SECTION



SECTION 012500 SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedural requirements for proposed substitutions.

1.02 DEFINITIONS

- A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.
 - Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control.
 - a. Unavailability.
 - b. Regulatory changes.
 - 2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.
 - Substitution requests offering advantages solely to the Contractor will not be considered.

1.03 REFERENCE STANDARDS

- A. CSI/CSC Form 1.5C Substitution Request (During the Bidding/Negotiating Stage) Current Edition.
- B. CSI/CSC Form 13.1A Substitution Request (After the Bidding/Negotiating Phase) Current Edition.

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 provide same or equivalent maintenance service and source of replacement parts, as applicable.
 - 4. 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.
 - 5. Waives claims for additional costs or time extension that may subsequently become apparent.
 - 6. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
- B. A Substitution Request for specified installer constitutes a representation that the submitter:
 - 1. Has acted in good faith to obtain services of specified installer, but was unable to come to commercial, or other terms.
- C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
 - 1. Note explicitly any non-compliant characteristics.
- D. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
 - 1. No specific form is required. Contractor's Substitution Request documentation must include the following:
 - a. Project Information:
 - Official project name and number, and any additional required identifiers established in Contract Documents.
 - 2) Owner's, Architect's, and Contractor's names.

- b. Substitution Request Information:
 - 1) Discrete and consecutive Substitution Request number, and descriptive subject/title.
 - 2) Indication of whether the substitution is for cause or convenience.
 - 3) Issue date.
 - 4) Reference to particular Contract Document(s) specification section number, title, and article/paragraph(s).
 - 5) Description of Substitution.
 - 6) Reason why the specified item cannot be provided.
 - 7) Differences between proposed substitution and specified item.
 - 8) Description of how proposed substitution affects other parts of work.
- c. Attached Comparative Data: Provide point-by-point, side-by-side comparison addressing essential attributes specified, as appropriate and relevant for the item:
 - 1) Physical characteristics.
 - 2) In-service performance.
 - 3) Expected durability.
 - 4) Visual effect.
 - 5) Sustainable design features.
 - 6) Warranties.
 - 7) Other salient features and requirements.
 - 8) Include, as appropriate or requested, the following types of documentation:
 - (a) Product Data:
 - (b) Samples.
 - (c) Certificates, test, reports or similar qualification data.
 - (d) Drawings, when required to show impact on adjacent construction elements.
- d. Impact of Substitution:
 - 1) Savings to Owner for accepting substitution.
 - 2) Change to Contract Time due to accepting substitution.
- E. Limit each request to a single proposed substitution item.
 - 1. Submit an electronic document, combining the request form with supporting data into single document.

3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

- A. Submittal Time Restrictions:
 - 1. Instructions to Bidders specifies time restrictions and the documents required for submitting substitution requests during the bidding period.

3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

- A. Architect will consider requests for substitutions only within 15 days after date of Agreement.
- B. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
- C. Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
 - 1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost savings, time savings, greater energy conservation, or in other specific ways.
 - Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
 - 3. Bear the costs engendered by proposed substitution of:
 - a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
 - b. Other construction by Owner.
 - c. Other unanticipated project considerations.

- D. Substitutions will not be considered under one or more of the following circumstances:
 - 1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
 - 2. Without a separate written request.
 - 3. When acceptance will require revisions to Contract Documents.

3.04 RESOLUTION

- A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
- B. Architect will notify Contractor in writing of decision to accept or reject request.
 - Architect's decision following review of proposed substitution will be noted on the submitted form.

3.05 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

3.06 CLOSEOUT ACTIVITIES

A. Include completed Substitution Request Forms as part of the Project record. Include both approved and rejected Requests.

END OF SECTION



SECTION 013000 ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- Preconstruction meeting.
- B. Progress meetings.
- C. Construction progress schedule.
- D. Submittals for review, information, and project closeout.
- E. Number of copies of submittals.
- F. Submittal procedures.

1.02 RELATED REQUIREMENTS

- A. Section 017000 Execution and Closeout Requirements: Additional coordination requirements.
- B. Section 017800 Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.

1.03 PROJECT COORDINATOR

- A. Project Coordinator: Construction Manager.
- B. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for _____ access, traffic, and parking facilities.
- C. During construction, coordinate use of site and facilities through the Project Coordinator.
- D. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.
- E. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing temporary utilities and construction facilities is identified in Section 011000 Summary.
- F. Coordinate field engineering and layout work under instructions of the Project Coordinator.
- G. Make the following types of submittals to Architect through the Project Coordinator:
 - 1. Requests for Interpretation.
 - 2. Shop drawings, product data, and samples.
 - 3. Test and inspection reports.
 - 4. Design data.
 - 5. Manufacturer's instructions and field reports.
 - 6. Applications for payment and change order requests.
 - 7. Progress schedules.
 - 8. Coordination drawings.
 - 9. Correction Punch List and Final Correction Punch List for Substantial Completion.
 - 10. Closeout submittals.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- A. Project Coordinator will schedule a meeting after Notice of Award.
- B. Attendance Required:
 - 1. Owner.
 - 2. Architect.
 - Contractor.
 - 4. Note: The following agenda items are not intended to be the final or a complete list of the items that will be discussed. A complete agenda will be distributed at the preconstruction meeting..

C. Agenda:

- 1. Execution of Owner-Contractor Agreement.
- 2. Submission of executed bonds and insurance certificates.
- 3. Distribution of Contract Documents.

- Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
- 5. Submission of initial Submittal schedule.
- 6. Designation of personnel representing the parties to Contract, _____ and Architect
- 7. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
- 8. Scheduling.
- Open for comments; attendees are encouraged to bring other topics or concerns up for discussion at this time.
- D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

- A. Project Coordinator will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
- B. Attendance Required:
 - 1. Contractor.
 - 2. Owner.
 - Architect.
 - 4. Contractor's superintendent.
 - 5. Major subcontractors.

C. 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. Maintenance of progress schedule.
- 7. Corrective measures to regain projected schedules.
- 8. Planned progress during succeeding work period.
- 9. Maintenance of quality and work standards.
- 10. Effect of proposed changes on progress schedule and coordination.
- 11. Other business relating to work.
- D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

- A. Within 7 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of work, with a general outline for remainder of work.
- B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
- C. Within 7 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
 - Include written certification that major contractors have reviewed and accepted proposed schedule.
- D. Within 5 days after joint review, submit complete schedule.
- E. Submit updated schedule with each Application for Payment.

3.04 SUBMITTAL SCHEDULE

- A. Submit to Architect for review a schedule for submittals in tabular format.
 - Submit at the same time as the preliminary schedule specified in Section 013216 -Construction Progress Schedule.
 - 2. Coordinate with Contractor's construction schedule and schedule of values.
 - 3. Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for information), description of item of work covered, and role and name of subcontractor.

- 4. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and review deadline dates.
 - a. For assemblies, equipment, systems comprised of multiple components and/or requiring detailed coordination with other work, allow for additional time to make corrections or revisions to initial submittals, and time for their review.

3.05 SUBMITTALS IN GENERAL

- A. All submittals shall be submitted to the Architect through the Project Coordinator No exceptions.
- B. PDFs by e-mail is the preferred method; coordinate with Architect's representative.
 - Refer to "Requirements for Electronically Submitted Shop Drawings" attached to this section.
- C. 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.
- D. 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.
- E. 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.
- F. By submitting submittals, the General Contractor represents to Architect that General Contractor has:
 - 1. Reviewed and approved them.
 - 2. Determined and verified materials, field measurements and field construction criteria related thereto, or will do so.
 - 3. Checked and coordinated the information contained within such submittals with the requirements of the Work of the Contract Documents.
- G. Submittals that do not appear to be reviewed and approved will be returned to the General Contractor without the Architect's review. Time delays for this breach in procedure will be at the sole expense of the General Contractor.
- H. All shop drawings shall be submitted no later than 45 days after execution of the contract.

3.06 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.
 - 5. Any required certification for installation.
- B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.
- C. Samples will be reviewed 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 017800 Closeout Submittals.

E.

3.07 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's knowledge as contract administrator or for Owner.

3.08 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 in compliance with requirements of Section 017800 Closeout Submittals:
 - 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.
- E. Refer to Section 01 7800 Closeout Submittals.

3.09 SUBMITTAL PROCEDURES

- A. General Requirements:
- B. Shop Drawing Procedures:
 - Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
 - 2. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

C.

- 1. For shop drawing submittals use form attached to this specification section.
- Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
- E. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- F. 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.
- G. Schedule submittals to expedite the Project, and coordinate submission of related items.
- H. For each submittal for review, allow 10 days excluding delivery time to and from the Contractor. The time allotted starts when the architect recieves all required material for submittel review. Proper planning and scheduling of submittals shall be performed. Amendments to the construction schedule due delayed submittal to Architect is not acceptable.
- I. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- J. Provide space for Contractor and Architect review stamps.
- K. When revised for resubmission, identify all changes made since previous submission.
- L. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- M. Submittals not requested will not be recognized or processed.
- N. /Submittals must be review and stamped by ithe Subcontractor/Supplier and GC/Designbuilder prior to submitting to Architect. Submittal may be rejected without required reviews prior to submittal to Architect.

3.10 REQUIREMENTS FOR ELECTRONICALLY SUBMITTED SHOP DRAWINGS

- A. The Contractor shall fill out and include the submittal cover sheet included in the project manual.
- B. The shop drawings are to be reviewed by the Contractor before submitting. All field required verifications and missing information shall be completed and noted on the drawings. The Contractor shall review them and verify that the products submitted are acceptable per the specifications. The Contractor shall then affix their stamp on the submittal cover sheet.

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Contractor must review - No pass-through drawings are permitted.

- C. The Contractor shall prepare a single PDF file so that all sheets of the submittal are included in one document. Only ONE specifications section per submittal is permitted. Each PDF shall contain Bookmarks set to the destination of separate items contained within the file. If the Contractor elects to use their own transmittal sheet it shall be a separate attachment.
- D. Scans shall be in color. All pages shall be oriented correctly. Actual sheet sizes for the submittal shall be 8 ½ x11 or 11x17 whenever possible. All print and details must be legible at those sizes. Larger file sheets such as 24x36 sheet size shall be identified in the e-mail.
- E. The e-mail subject line shall list the five-digit project number first followed by the project name. Then the section number and a brief description of the submittal contents shall follow the submittal number. Example: 12345 High School Addition 23 3700-Air outlets and inlets.
- F. The PDF file or attachment shall be named as follows. Example: 23 3700 Air outlets & inlets 12345 High School Addition.pdf
- G. Samples and color selections associated with the drawings shall be included in a separate attachment when practical. Actual samples, color selections shall be delivered to ISG and the shop drawings will not be reviewed until actual samples are received.
- H. The Architect / Engineer will review the drawings, make notes as required on the drawings and stamp them. The PDF file shall then be renamed by adding the action required such as REVIEWED, FURNISH AS CORRECTED, REVISE AND RESUBMIT or REJECTED. Example: 23 3700 Air outlets and inlets 12345 High School Addition REVIEWED.pdf
- I. The Architect / Engineer shall then use the original email and attach the reviewed drawings and forward back to the contractor. The e-mail that they are attached to will be considered the transmittal. Any notes in the body of the email from the Architect / Engineer shall be considered as written on the sheets of the PDF file.
- J. No hard copies will be sent by the Architect / Engineer. Note: Hard copies will be required to be included in the O&M Manuals as part of the project close out submittals.



SECTION 013510 STRUCTURAL TESTING AND SPECIAL INSPECTION

PART 1 GENERAL

1.01 INTENT AND CONDITIONS

A. Intent

- 1. Define and coordinate structural testing and special inspection services.
- 2. Define and coordinate conventional testing and inspection services.
- 3. Provide greater confidence that the specified work is constructed in compliance with the contract documents and Chapter 17 of the 2018 International Building Code.
- 4. Testing and Inspection services are intended to assist in determining probable compliance of the work with requirements specified. These services do not relieve the Contractor of responsibility for compliance with the requirements of the contract documents

B. Conditions

- If inspection of fabricator's work is required, the Owner's representative may require
 testing and inspection of the work at the plant, before shipment. Owner, Architect and
 Structural Engineer of Record (SER) reserve the right to reject material not complying with
 the contract documents.
- Testing and inspection shall be performed in accordance with the industry standard used
 as the reference for the specific material or procedure unless other criteria are specified.
 In the absence of a referenced standard, tests shall be accomplished in accordance with
 generally accepted industry standards.
- Work shall be checked as it progresses, but failure to detect any defective work or materials shall in no way prevent later rejection if defective work or materials are discovered, nor shall it obligate Owner to accept such work.

1.02 RELATED REQUIREMENTS

- A. Testing Evaluation of systems, primarily requiring physical manipulation and analysis of materials, in accordance with approved standards.
- B. Inspection Evaluation of systems, primarily requiring observation and engineering judgment.
- C. Structural Testing and Special Inspection Structural Testing and Special Inspection Services herein include items required by the 2018 International Building Code, and other items which in the professional judgment of the Structural Engineer of Record, are critical to the integrity of the building structure.
- D. Conventional Testing and Inspection Conventional Testing and Inspection Services herein describe those items not specially required by Code but may be considered essential to the proper performance of the building systems.
- Architect of Record The prime consultant in charge of overall design and coordination of the project.
- F. Structural Engineer of Record (SER) The Licensed Engineer in responsible charge of the structural design for the project.
- G. Licensed Structural Engineer: A professional engineer with education and experience in the design of structures similar to this project licensed to practice in the state in which the project is located
- H. Testing Agency (TA) The properly qualified firm performing testing services.
- I. Special Inspector (SI) A properly qualified individual or firm performing special inspections.
- J. Building Official The Officer or his duly authorized representative charged with the administration and enforcement of the 2018 International Building Code.
- K. Continuous –The full-time observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.
- L. Periodic –The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.

1.03 REFERENCES

A. ASTM E329-02 - Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction.

- B. ASTM E43-02 Standard Practice for Agencies Performing Nondestructive Testing.
- C. ASTM C1077-02 Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation.
- D. ASTM C1093-95 Practice for Accreditation of Testing Agencies for Unit Masonry.
- E. ASTM D3740-01 Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
- F. AISC Steel Construction Manual 14th Edition (2010)
- G. 2018 International Building Code.
- H. See technical sections of PART 3 for specific references.

1.04 QUALIFICATIONS

- A. Testing Agency (TA) The testing agency shall be an approved independent testing agency acceptable to the Owner, Architect, SER and as noted below:
 - 1. Authorized to operate in the state in which the project is located and experienced with the requirements and testing methods specified in the technical scope sections of PART 2.
 - 2. Meeting applicable requirements of Section 1.04 "References".
 - 3. Testing equipment shall be calibrated at reasonable intervals by devices of accuracy traceable to either the National Bureau of Standards, or to accepted values of natural physical constants.
- B. Special Inspector (SI) The special inspector shall be under the direct supervision of a registered civil/structural engineer, experienced with the type of work requiring structural testing and special inspection.
 - 1. The categories of special inspector are:
 - a. Special Inspector Technical I, II, and III: Usually an employee of a testing agency.
 - b. Special Inspector Structural I and II: Preferably an employee of the SER's firm.
 - 2. Unique special inspector requirements, for specific materials and system, are noted in Structural Testing and Special Inspectionrelated technical specification sections.

1.05 RESPONSIBILITIES

- A. Structural Testing and Special Inspection
 - 1. Special Inspectors:
 - Sign the Structural Testing and Special Inspection Summary Schedule in conjunction with other responsible parties prior to commencement of construction.
 - b. If requested, attend a pre-construction meeting to review the scope of structural testing and special inspection.
 - c. Test and/or inspect the work assigned for conformance with the building department approved design drawings, specifications and applicable material and workmanship provisions of the Code. Perform testing and inspection in a timely manner to avoid delay of work.
 - d. Bring discrepancies to the immediate attention of the contractor for correction, confirm that they are corrected and, if uncorrected after a reasonable period of time, bring to the attention of the Structural Engineer of Record, the Building Official, and to the Architect.
 - e. Submit test and/or inspection reports to the Building Official, Contractor, the Structural Engineer of Record, and other designated persons in accordance with the Structural Testing and Special Inspection Summary Schedule.
 - f. Submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans, specifications and the applicable workmanship provisions of the Code.
 - 2. Testing Agency:
 - a. Sign the Structural Testing and Special Inspection Summary Schedule in conjunction with other responsible parties prior to commencement of construction.
 - b. If requested, attend a pre-construction meeting to review the scope of structural testing and special inspection.
 - c. When engaged as a special inspector, provide structural testing and special inspection services as previously described.
 - 3. Architect of Record (or other prime consultant):

- a. Complete and sign the Structural Testing and Special Inspection Summary Schedule in conjunction with other responsible parties prior to commencement of construction. Provide a completed copy of the schedule to all signed parties including Building Official.
- b. If appropriate, arrange and attend a pre-construction meeting to review the scope of structural testing and special inspection. Include Contractor, Building Official, SER, Testing Agency and other parties concerned.
- Coordinate the flow of reports and related information to expedite resolution of construction issues.
- 4. Structural Engineer of Record (SER):
 - Identify items requiring structural testing and special inspection including special cases.
 - b. Define "type" of special inspector required for "description" of work indicated on the structural testing and special inspection schedule.
 - c. Complete and sign the Structural Testing and Special Inspection Summary Schedule prior to commencement of construction.
 - d. If requested, attend a pre-construction meeting to review the scope of structural testing and special inspection.
 - e. Review reports submitted by special inspectors.
 - f. If engaged as a special inspector, provide structural testing and special inspection services as previously described. Contractor:

5. Contractor:

- a. Sign the Structural Testing and Special Inspection Summary Schedule in conjunction with other responsible parties prior to commencement of construction.
- b. Coordinate efforts to gain signatures of all signing parties other than the Architect and Structural Engineer of Record (SER).
- c. If requested, attend a pre-construction meeting to review the scope of structural testing and special inspection.
- d. Post or make available the Structural Testing and Special Inspection Summary Schedule within its office at the job site. Also, provide adequate notification to those parties designated on the schedule so they may properly prepare for and schedule their work.
- e. Provide the special inspectors access to the approved drawings and specifications at the job site.
- f. Review reports submitted by special inspectors.
- g. Retain at the job site all reports submitted by the special inspectors for review by the building official upon request.
- h. Correct in a timely manner, deficiencies identified in inspection and/or testing reports.
- Provide the special inspector safe access to the work requiring inspection and/or testing.
- j. Provide labor and facilities to provide access to the work and to obtain, handle and deliver samples, to facilitate testing and inspection and for storage and curing of test samples.
- k. Verification of conformance of the work within specified construction tolerances is solely the Contractor's responsibility.

6. Fabricator

- a. Sign the Structural Testing and Special Inspection Summary Schedule in conjunction with other responsible parties prior to commencing construction.
- b. Submit a Certificate of Compliance to the Building Official, Special Inspector, and Structural Engineer of Record that the work was performed in accordance with the approved plans and specifications.
- 7. Building Official (Typical responsibilities noted for information only):
 - a. Determine work, which in the Building Officials opinion, involves unusual hazards or conditions in accordance with the 2018 International Building Code.
 - b. Review special inspector qualifications.
 - c. Accept and sign the completed Structural Testing and Special Inspection Summary Schedule.

- d. Review all fabricators who perform work in their shop, which requires special inspection.
- e. Review reports and recommendations submitted by the special inspectors.
- f. Review the "final signed reports" submitted by the special inspector(s). These documents should be accepted and approved by the building department prior to issuance of a Certificate of Occupancy.

8. Owner

- Establish direct funding to provide for cost of structural testing and special inspection services.
- b. Provide special inspector with approved design drawings, specifications and approved shop drawings.
- c. Provide special inspectors and testing agencies with full access to site at all times.
- d. Sign the Structural Testing and Special Inspection Summary Schedule in conjunction with other responsible parties prior to commencement of construction.
- B. Conventional Testing and Inspection
- C. Inspections by Building Official
 - 1. Contractor shall provide adequate notice for inspections performed by the Building Official, as required by the 2018 International Building Code, and local ordinance.
- D. Periodic Site Observations by Design Consultant
 - a. Submit test and/or inspection reports to the Architect of Record, the Contractor and other designated persons.
 - Special structural testing and inspection, conventional testing and inspection, and periodic
 inspections by the Building Official do not preclude the normal field involvement and site
 observations by Architect or Structural Engineer of Record, nor shall it relieve the
 Contractor of any responsibility to complete the work in accordance with the approved
 drawings and specifications.

E. Limits of Authority

 Testing agents and/or special inspectors may not waive or alter contract requirements, or approve or accept any portion of the work unless specifically authorized by the Architect or Structural Engineer of Record. They may not assume any duties of the Contractor, and they have no authority to stop or reject "Work".

1.06 PAYMENT

- A. Owner shall directly employ and pay for services of the special inspectors to perform required Structural Testing and Special Inspection.
- B. Owner shall employ and pay for services of the testing agency to perform required Conventional Testing and Inspection.
- C. Unless noted otherwise, the Contractor shall provide and pay for all materials, samples, mockups, and assemblies required for testing and inspection and shall pay for all shipping costs related to delivery of this work. Testing agency will pay for shipping costs of samples transported from site to lab.
- D. If exploratory work is required to determine the cause of defects, the cost of such work shall be paid by the Contractor, if the work is found to be defective, in the judgment of the Architect/Engineer. Contractor shall reimburse the Owner for all costs incurred in this event.
- E. Any tests required to qualify the Contractor, or the workmen for any phase of the work, shall be performed at no additional cost to the Owner.

1.07 INSPECTION NOTICE

A. Contractor shall provide minimum of 24 hours notice for all items requiring testing or inspection. Items requiring testing and inspection services prior to or during placement shall not be placed until testing and inspection services are available. Items requiring testing and inspection services after placement shall not be enclosed or obscured until testing and inspection services are performed.

1.08 REPORTS

A. Testing agency and/or special inspectors shall submit reports in accordance with the Structural Testing and Special Inspection Summary Schedule and shall conduct and interpret tests and

inspections and state in each report whether; (1) test specimens and observations comply with Contract Documents, and specifically state any deviations, (2) record types and locations of defects found in work, (3) record work required and performed, to correct deficiencies.

- B. Reports for structural testing and special inspection, shall be submitted in timely manner to the Contractor, Building Official, SER, and Architect of Record.
 - 1. Submit reports for ongoing work, to provide the information noted below:
 - a. Date issued.
 - b. Project title and number.
 - c. Firm name and address.
 - d. Name and signature of tester or inspector.
 - e. Date and time of sampling.
 - f. Date of test or inspection.
 - g. Identification of product and specification section.
 - h. Location in project, including elevations, grid location and detail.
 - i. Type of test or inspections.
 - j. Results of tests or inspections and interpretation of same.
 - k. Observations regarding compliance with Contract Documents or deviations there from.
 - 2. Submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans, specifications and the applicable workmanship provisions of the code.
- C. Reports for conventional testing and inspection shall be submitted in a timely manner to the Contractor and the Architect of Record.

1.09 FREQUENCY OF TESTING AND INSPECTION

A. For detailed requirements see technical sections of PART 3.

1.10 PROTECTION AND REPAIR

A. Upon completion of testing, sample-taking, or inspection, the Contractor shall repair damaged work and restore substrates and finishes to eliminate deficiencies, including deficiencies in the visual qualities of exposed surfaces, as judged solely by the Architect/Engineer of Record. Protect work exposed by or for testing and/or inspection and protect repaired work. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for testing and/or inspection.

1.11 TESTS TO DEMONSTRATE QUALIFICATION

- A. If the Contractor proposes a product material, method, or other system that has not been prequalified, the Architect may require applicable tests, to establish a basis for acceptance or rejection. These tests will be paid for by the Contractor.
- B. The Architect/Engineer of Record reserves the right to require certification or other proof that the system proposed, is in compliance with any tests, criteria or standards called for. The certificate shall be signed by a representative of an independent testing agency.

PART 2 MATERIALS (NOT USED) PART 3 SCOPE OF TESTING AND INSPECTION

3.01 STRUCTURAL TESTING AND SPECIAL INSPECTION PROGRAM SUMMARY

- A. The parties involved shall complete and sign the Structural Testing and Special Inspection Summary Schedule. The Program, including Summary Schedule, shall be submitted to the building official for approval prior to issuance of a building permit. The competed schedule includes the following:
 - 1. A specific listing of the items requiring inspection and testing.
 - 2. The associated technical scope sections that define the applicable standards by which to judge conformance with the approved plans and specifications in accordance with 2018 International Building Code. The technical scope sections should also include the degree or basis of inspection and testing; i.e., intermittent/will-call or full-time/continuous.
 - 3. The frequency of reporting, i.e., weekly, monthly, per test/inspection, per floor, etc.
 - 4. The parties responsible for performing the inspection and testing work.

5. The required acknowledgments by each designated party.

3.02 CONVENTIONAL TESTING AND INSPECTION

A. (Not Used)

3.03 STRUCTURAL TESTING AND SPECIAL INSPECTION STATEMENT OF SPECIAL INSPECTIONS

- A. Refer to attached Program Summary Schedule for this project. It includes a schedule of Special Inspection services applicable to this project and the identity of agencies to be retained for conducting these inspections and tests.
- B. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official, the Architect and Structural Engineer of Record. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, the Architect and SER. The Special Inspection program does not relieve the Contractor of his or her responsibilities.
- C. Interim reports shall be submitted to the Building Official, Architect, and SER.
- D. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

3.04 TECHNICAL SECTIONS

A. Section 31 2200 - Earthwork - Grading, Excavation Filling

- 1. (Not Used)
- Definitions
 - a. Refer to PART 1 for standard definitions.
 - b. Special Inspector Technical
 - 1) Technical I: Technician shall be under the direct supervision of a Technical III. Work shall be performed in a qualified geotechnical/testing laboratory.
 - c. Technical II: Technical with a minimum of 2 years experience, or a graduate engineer, and is an employee of a qualified and approved geotechnical/testing laboratory, under the direct supervision of a Technical III.
 - Technical III: A civil/geotechnical engineer regularly engaged in this type of work with a minimum of 4 years experience, licensed in the State in which the project is located, and is an employee of a qualified and approved geotechnical/testing laboratory. This licensed engineer shall review and approve all final field reports.
- Structural Testing and Special Inspection Requirements (Item and Frequency and Qualifications)
 - Classification of materials used and encountered during construction per ASTM:D2488 and ASTM:D2487. Technical I
 - b. Performance of laboratory testing of materials, as needed (Proctor, Sieve Analysis, Atterberg Limits, Consolidation Test, etc.). Technical I
 - c. Field Density Tests: Technical I
 - d. Provide periodic results of field compaction and laboratory work for general compliance with Contract Documents and Geotechnical Reports. Technical I
 - e. Observe all subgrades/excavation bases below footings and slabs and verify design bearing capacity is achieved. Technical II
 - f. Document presence of groundwater within excavations. Technical I
 - g. Provide reports of subgrade observations for general compliance with Contract Documents and Geotechnical Report. Technical II
 - h. Verify cut and fill slopes as specified in the contract documents. Technical III
- 4. Conventional Testing and Inspections Requirements
 - a. Contractor shall verify that footings comply with frost depth requirements and shall report any variances to the SER in a timely manner.

SECTION 014000 QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Submittals.
- B. Testing and inspection agencies and services.
- C. Control of installation.
- D. Tolerances.
- E. Manufacturers' field services.
- F. Defect Assessment.

1.02 RELATED REQUIREMENTS

- A. Document 007200 General Conditions: Inspections and approvals required by public authorities.
- B. Section 013000 Administrative Requirements: Submittal procedures.
- C. Section 016000 Product Requirements: Requirements for material and product quality.

1.03 REFERENCE STANDARDS

1.04 REFERENCE STANDARDS

- A. ASTM C1021 Standard Practice for Laboratories Engaged in Testing of Building Sealants 2008 (Reapproved 2023).
- B. ASTM C1021 Standard Practice for Laboratories Engaged in Testing of Building Sealants 2008 (Reapproved 2023).
- C. ASTM C1077 Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation 2017.
- D. ASTM C1077 Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation 2017.
- E. ASTM C1093 Standard Practice for Accreditation of Testing Agencies for Masonry 2023.
- F. ASTM C1093 Standard Practice for Accreditation of Testing Agencies for Masonry 2023.
- G. ASTM D3740 Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction 2019.
- H. ASTM D3740 Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction 2019.
- I. ASTM E329 Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection 2021.
- J. ASTM E329 Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection 2021.
- K. ASTM E543 Standard Specification for Agencies Performing Nondestructive Testing 2021.
- L. ASTM E543 Standard Specification for Agencies Performing Nondestructive Testing 2021.
- M. ASTM E699 Standard Specification for Agencies Involved in Testing, Quality Assurance, and Evaluating of Manufactured Building Components 2016.
- N. ASTM E699 Standard Specification for Agencies Involved in Testing, Quality Assurance, and Evaluating of Manufactured Building Components 2016.

1.05 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. General: As indicated in individual specification sections.
- C. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents, or for Owner's information.\
- D. Submittals must be reviewed by Subcontractor and Design Builder Superindendant to ensure submittals match the construction documents and include all required documentation. Incomplete submittals will be rejected by Architect and/or Engineer without review.
- E. Test Reports: After each test/inspection, promptly submit two copies of report to Architect and to Contractor.
 - 1. Include:
 - a. Date issued.

- b. Project title and number.
- c. Name of inspector.
- d. Date and time of sampling or inspection.
- e. Identification of product and specifications section.
- f. Location in the Project.
- g. Type of test/inspection.
- h. Date of test/inspection.
- i. Results of test/inspection.
- j. Compliance with Contract Documents.
- k. When requested by Architect, provide interpretation of results.
- 2. Test report submittals are for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents, or for Owner's information.
- F. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
 - 1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
 - 2. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect.
- G. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.
- H. Manufacturer's Field Reports: Submit reports for Architect's benefit as contract administrator or for Owner.
 - 1. Submit report in duplicate within 30 days of observation to Architect for information.
 - 2. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents.
- Erection Drawings: Submit drawings for Architect's benefit as contract administrator or for Owner.
 - 1. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents.
 - Data indicating inappropriate or unacceptable Work may be subject to action by Architect or Owner.

1.06 REFERENCES AND STANDARDS

- A. For products and 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. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- 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 Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.07 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Owner will employ and pay for services of an independent testing agency to perform other specified testing and inspection.

- 1. Where indicated in individual specification sections the Contractor shall employ and pay for services of an independent testing agency to perform specified testing and inspection.
- B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
- C. Contractor Employed Agency:
 - 1. Testing agency: Comply with requirements of ASTM E329, ASTM E543, ASTM E699, ASTM C1021, ASTM C1077, ASTM C1093, and ASTM D3740.
 - 2. Inspection agency: Comply with requirements of ASTM D3740 and ASTM E329.
 - 3. Laboratory: Authorized to operate in the State in which the Project is located.
 - 4. Laboratory Staff: Maintain a full time registered Engineer on staff to review services.
 - 5. Testing Equipment: Calibrated at reasonable intervals either by NIST or using an NIST established Measurement Assurance Program, under a laboratory measurement quality assurance program.

1.08 TESTING AND INSPECTION AGENCIES AND SERVICES

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- C. Comply with manufacturers' instructions, including each step in sequence.
- D. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- E. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- F. Have work performed by persons qualified to produce required and specified quality.
- G. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- H. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TOLERANCES

- Monitor fabrication and installation tolerance control of products to produce acceptable Work.
 Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

3.03 TESTING AND INSPECTION

- A. See individual specification sections for testing and inspection required.
- B. Testing Agency Duties:
 - 1. Test samples of mixes submitted by Contractor.
 - 2. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
 - Perform specified sampling and testing of products in accordance with specified standards.
 - 4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 5. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
 - 6. Perform additional tests and inspections required by Architect.
 - 7. Submit reports of all tests/inspections specified.
- C. Limits on Testing/Inspection Agency Authority:

- Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
- 2. Agency may not approve or accept any portion of the Work.
- 3. Agency may not assume any duties of Contractor.
- 4. Agency has no authority to stop the Work.

D. Contractor Responsibilities:

- 1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
- Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
- 3. Provide incidental labor and facilities:
 - a. To provide access to Work to be tested/inspected.
 - b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
 - c. To facilitate tests/inspections.
 - d. To provide storage and curing of test samples.
- 4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
- 5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
- 6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
- E. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.
- F. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.04 MANUFACTURERS' FIELD SERVICES

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance equipment, and as applicable, and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.05 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not complying with specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 016000 PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General product requirements.
- B. Re-use of existing products.
- C. Transportation, handling, storage and protection.
- D. Product option requirements.
- E. Base specified/scheduled products and design intent.
- F. Inconsistencies.
- G. Substitutions in general.
- H. Substitution limitations.
- I. Procedures for Owner-supplied products.
- J. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 RELATED REQUIREMENTS

- A. Section 012500 Substitution Procedures: Substitutions made during procurement and/or construction phases.
- B. Section 01 3000 Administrative Requirements: Submittals.
- C. Section 014000 Quality Requirements: Product quality monitoring.
- D. Section 016116 Volatile Organic Compound (VOC) Content Restrictions: Requirements for VOC-restricted product categories.
- E. Section 017419 Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and substitutions.
- F. Section 220513 Common Motor Requirements for Plumbing Equipment: Motors for plumbing equipment.
- G. Section 230513 Common Motor Requirements for HVAC Equipment: Motors for HVAC equipment.

1.03 REFERENCE STANDARDS

- A. NEMA MG 1 Motors and Generators 2021.
- B. NFPA 70 National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 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 EXISTING PRODUCTS

- Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.
- B. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

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- B. The Contractor shall assure the Owner that all new equipment and materials are asbestos free. The Contractor, subcontractors, and material suppliers are required to provide letters of non-asbestos confirmation with supporting documentation prior to material installations. The Owner may select materials to test for asbestos at any time including prior to and/or after installation. If suspect asbestos materials are tested and found to contain asbestos, the materials shall be abated in accordance with asbestos regulations by an Owner approved consultant and abatement contractor. New asbestos free products shall be re-installed by the Contractor supplying such material. The Contractor shall be responsible for any and all new materials. If asbestos is found in the new materials, the cost for asbestos design, on-site monitoring, abatement, and replacement shall be the responsibility of the Contractor. Owner will collect and pay for the testing of any random suspect asbestos samples.
- C. Use of products having any of the following characteristics is not permitted:
 - Made using or containing CFC's or HCFC's.
- D. Where other criteria are met, Contractor shall give preference to products that:
 - 1. If used on interior, have lower emissions, as defined in Section 016116.
 - 2. If wet-applied, have lower VOC content, as defined in Section 016116.
 - 3. Are extracted, harvested, and/or manufactured closer to the location of the project.
 - 4. Result in less construction waste. See Section 017419
- E. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Size terminal lugs to NFPA 70, include lugs for terminal box.

2.03 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, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.
- D. Products that do not meet project specifications may be rejected at any time during the project.
- E. Cost associated with replacement product and delay in project schedule due to rejection shall be at sole expense of Contractor.

2.04 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 BASE SPECIFIED/SCHEDULED PRODUCTS AND DESIGN INTENT

- A. Certain specification sections will indicate a base manufacturer and will then list other acceptable manufacturers. Similarly, certain specification sections will list multiple acceptable manufacturers but only one of the manufacturers will be scheduled on a plan sheet. In these scenarios, the designer has designed the system with considerations for the base manufacturer or the product scheduled on the plan sheet. It is the responsibility of all bidders, contractors, suppliers to ensure that when bidding using an acceptable manufacturer other than the base manufacturer or the scheduled manufacturer that the design intent is met. Providing a product by an acceptable manufacturer other than the base specified or scheduled manufacturer constitutes a representation that the submitter:
 - 1. Has investigated supplied product and determined that it meets or exceeds the quality level of the base specified/scheduled product.
 - 2. Will provide the same warranty for the supplied product as for the base specified/scheduled product.
 - 3. As a result of differences between the base specified/scheduled product and the other acceptable manufacturers will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
 - Waives claims for additional costs or time extension that may subsequently become apparent.

- 5. Will reimburse Owner and Architect for review or redesign services associated with reapproval by authorities.
- 6. Will maintain dimensions, locations, clearances, accesses and other design intent shown on the plan or otherwise provided by the base specified/scheduled product.

3.02 INCONSISTENCIES

A. If there is an inconsistency in the quality and/or quantity of Work required by the Contract Documents, either the greater quality and/or quantity of Work indicated shall be provided in accordance with the Engineer/Architect's interpretation without change in the contract sum.

3.03 SUBSTITUTIONS IN GENERAL

- A. Proposed substitutions are required to be equivalent in all aspects to the specified products including but not limited to appearance, quality, and performance.
- B. When specified in individual sections actual samples shall be provided a minimum of 12 days prior to the bid due date for Architect's review and approval before products other than those scheduled or specified with be accepted; No Exceptions.

3.04 SUBSTITUTION LIMITATIONS

- A. See Section 012500 Substitution Procedures.
- B. Where the Bid Documents stipulate a particular product, substitutions will be considered up to 10 days before receipt of bids.
- Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
 - 1. The substantiating data shall provide a side by side comparison consisting of sufficient information to determine acceptability of such products.
- D. A request for substitution constitutes a representation that the submitter:
 - Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 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.
 - 5. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
- E. Provide complete information on required changes to other Work to accommodate each proposed substitution.
- F. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- G. When a request to substitute a product is made, Architect may approve the substitution and will issue an Addendum to known bidders.
- H. Substitution Submittal Procedure
 - 1. Transmit each substitution request with the Substitution Request cover letter attached to this specification section.
 - 2. PDFs by e-mail is the preferred method; coordinate with Architect's representative. Only submit paper copies where necessary as follows:
 - a. Submit five copies of request for substitution for consideration.
 - 3. The submitter shall prepare a single PDF file when submitting by email so that all sheets of a submittal are included in one document. Only ONE major product per submittal is permitted. Each PDF shall contain Bookmarks set to the destination of separate items contained within the file. If the submitter elects to use their own transmittal sheet it shall be a separate attachment.
 - a. Scans shall be in color, pages shall be oriented correctly, actual sheet sizes for the submittal shall be 11 by 17 inch or 8 1/2 by 11 inch whenever possible, and all content must be legible.
 - 4. Limit each request to one proposed substitution.

- 5. Multiple proposed substitutions submitted on one form will only be considered when products are directly related. Major products and components should be listed first.
- 6. Submit shop drawings, product data, certified test results, etc. attesting to the proposed product equivalence. Burden of proof is on proposer.
- 7. The Architect will reply with a decision to accept or reject request in a timely manner.
- I. Substitution Submittal Procedure (after contract award):
 - 1. Requests for Substitutions received after Bid Opening will not be considered except in such cases where it is necessary to make a substitution due to strikes, lockouts, bankruptcy, discontinuance of a product, and similar circumstances. Such Requests for Substitution of materials after Contract Award shall be made in writing to the Architect and shall be made within ten (10) days of the date that the Contractor ascertains they cannot obtain the material or equipment specified.
 - 2. Requests for Substitution will not be considered when they are indicated or implied on Shop Drawings or Product Data submittals without a separate previously submitted Request for Substitution Form, or when acceptance will require substantial revision of the Contract Documents.
 - 3. The Architect with approval by the Owner will be the judge of the acceptability of all Requests for Substitution received after Bid Opening.

3.05 OWNER-SUPPLIED PRODUCTS

- A. Owner's Responsibilities:
 - 1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
 - 2. Arrange and pay for product delivery to site.
 - 3. On delivery, inspect products jointly with Contractor.
 - 4. Submit claims for transportation damage and replace damaged, defective, or deficient items.
 - 5. Arrange for manufacturers' warranties, inspections, and service.
- B. Contractor's Responsibilities:
 - 1. Review Owner reviewed shop drawings, product data, and samples.
 - Receive and unload products at site; inspect for completeness or damage jointly with Owner.
 - 3. Handle, store, install and finish products.
 - 4. Repair or replace items damaged after receipt.

3.06 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.

3.07 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 017419.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.

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- 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. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- J. Prevent contact with material that may cause corrosion, discoloration, or staining.
- K. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- L. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.



SECTION 017000 EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Access panels required by trade.
- C. Requirements for alterations work, including selective demolition,
- D. Pre-installation meetings.
- Cutting and patching.
- F. Surveying for laying out the work.
- G. Cleaning and protection.
- H. Starting of systems and equipment.
- I. Demonstration and instruction of Owner personnel.
- J. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.
- K. General requirements for maintenance service.

1.02 RELATED REQUIREMENTS

- Section 011000 Summary: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.
- B. Section 013000 Administrative Requirements: Submittals procedures, Electronic document submittal service.
- C. Section 015000 Temporary Facilities and Controls: Temporary exterior enclosures.
- D. Section 015000 Temporary Facilities and Controls: Temporary interior partitions.
- E. Section 017800 Closeout Submittals: Project record documents, operation and maintenance data, warranties, and bonds.
- F. Section 078400 Firestopping.
- G. Individual Product Specification Sections:
 - 1. Advance notification to other sections of openings required in work of those sections.
 - Limitations on cutting structural members.

1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
 - 1. On request, submit documentation verifying accuracy of survey work.
 - 2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in compliance with Contract Documents.
 - 3. Submit surveys and survey logs for the project record.
- 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.
 - 5. Work of Owner or separate Contractor.
 - 6. Include in request:
 - a. Identification of Project.
 - b. Location and description of affected work.
 - c. Necessity for cutting or alteration.
 - d. Description of proposed work and products to be used.
 - e. Alternatives to cutting and patching.
 - f. Effect on work of Owner or separate Contractor.
 - g. Written permission of affected separate Contractor.
 - Date and time work will be executed.
- D. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.04 QUALIFICATIONS

- A. For demolition work, employ a firm specializing in the type of work required.
 - 1. Minimum of 5 years of documented experience.
- B. For surveying work, employ a land surveyor registered in North Carolina and acceptable to Architect. Submit evidence of surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate. Employ only individual(s) trained and experienced in collecting and recording accurate data relevant to ongoing construction activities,
- C. For field engineering, employ a professional engineer of the discipline required for specific service on Project, licensed in North Carolina. Employ only individual(s) trained and experienced in establishing and maintaining horizontal and vertical control points necessary for laying out construction work on project of similar size, scope and/or complexity.
- D. For design of temporary shoring and bracing, employ a Professional Engineer experienced in design of this type of work and licensed in North Carolina.
- E. For construction surveying and building layout at the option of the contractor, employ ISG; Contact Dan Stueber; Phone: 507.387.6651.
 - Scope: Building Staking; Curb and Gutter/Edge of Bituminous Staking; Watermain and Sanitary Sewer Staking; Other Miscellaneous Staking; and additional Field Crew Coordination Requirements. Refer to proposal for additional information.
 - 2. Bidding: Obtain proposal from ISG and include the amount in base bid.

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.

1.06 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 016000 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 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, Owner, participants, and those affected by decisions made.

3.04 LAYING OUT THE WORK

- A. Verify locations of survey control points prior to starting work.
- B. Promptly notify Architect of any discrepancies discovered.
- C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
- D. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.
- F. Utilize recognized engineering survey practices.
- G. 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; and _____.
 - 2. Grid or axis for structures.
 - 3. Building foundation, column locations, ground floor elevations, and ______.
- H. Periodically verify layouts by same means.
- I. 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.

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- 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 ACCESS PANELS REQUIRED BY TRADE

- A. Trade requiring access shall provide and install access panels where not show or specified.
- B. The finished appearance and function will be subject to approval by the Architect/Owner.
- C. Provide panels that accommodate adjacent finishes in finished spaces.
- D. Access panels shall meet all code requirements for each location they are installed and shall be sized appropriately

3.07 ALTERATIONS

- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
 - 1. Verify that construction and utility arrangements are as indicated.
 - 2. Report discrepancies to Architect before disturbing existing installation.
 - 3. Beginning of alterations work constitutes acceptance of existing conditions.
- B. Keep areas in which alterations are being conducted separated from other areas that are still occupied.
 - 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 015000 in locations indicated on drawings.
 - 2. Provide sound retardant partitions of construction indicated on drawings in locations indicated on drawings.
- C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
 - Where openings in exterior enclosure exist, provide construction to make exterior enclosure weatherproof.
 - 2. Insulate existing ducts or pipes that are exposed to outdoor ambient temperatures by alterations work.
- 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.
 - 3. Relocate items indicated on drawings.
 - 4. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
 - 5. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.
- E. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, Telecommunications, and _____): Remove, relocate, and extend existing systems to accommodate new construction.
 - 1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
 - 2. Where existing systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair supply, distribution, and equipment as required.
 - 3. 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.
 - Disable existing systems only to make switchovers and connections; minimize duration of outages.
 - b. See Section 011000 for other limitations on outages and required notifications.
 - c. Provide temporary connections as required to maintain existing systems in service.

- 4. Verify that abandoned services serve only abandoned facilities.
- 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; patch holes left by removal using materials specified for new
 construction.
- 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.
- G. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
- H. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.
- I. Refinish existing surfaces as indicated:
 - Where rooms or spaces are indicated to be refinished, refinish all visible existing surfaces to remain to the specified condition for each material, with a neat transition to adjacent finishes.
 - 2. If mechanical or electrical work is exposed accidentally during the work, re-cover and refinish to match.
- J. Clean existing systems and equipment.
- K. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.
- L. Do not begin new construction in alterations areas before demolition is complete.
- M. Comply with all other applicable requirements of this section.

3.08 CUTTING AND PATCHING

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. See Alterations article above for additional requirements.
- C. 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-complying work.
- D. 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.
- E. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
 - 1. All other cutting and patching is to be performed by the responsible trade.
- F. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- G. Restore work with new products in accordance with requirements of Contract Documents.
- H. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 078400, to full thickness of the penetrated element.
- J. Patching:
 - 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.

3.09 PROGRESS CLEANING

- 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.

3.10 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. 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.
- G. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.11 SYSTEM STARTUP

- A. Coordinate schedule for start-up of various equipment and systems.
- B. 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.
- C. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
- D. Verify that wiring and support components for equipment are complete and tested.
- E. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
- F. Submit a written report that equipment or system has been properly installed and is functioning correctly.

3.12 DEMONSTRATION AND INSTRUCTION

- A. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, at equipment location.
- B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
- C. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of Owner's personnel.

3.13 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.14 FINAL CLEANING

- A. Execute final cleaning prior to final project assessment.
 - 1. The intent of final cleaning is to provide the Owner with a product that is free of all dust, dirt, and debris related to the Work, and in a like new condition.
- B. Use cleaning materials that are nonhazardous.
- C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

- D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
- E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- F. Clean filters of operating equipment.
- G. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, drainage systems, and
- H. Clean site: sweep paved areas, rake clean landscaped surfaces.
- I. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.
- J. Wipe clean wood and laminate surfaces including doors, countertops, cabinets, windows, sills and all other similar surfaces.
- K. Wipe clean all painted surfaces.
- L. Clean all hard finish floors including tile and sealed concrete and all others according to manufacturer's instructions

3.15 CLOSEOUT PROCEDURES

- A. Make submittals that are required by governing or other authorities.
 - 1. Provide copies to Architect and Owner.
- 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 when work is considered ready for Architect'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's Substantial Completion inspection.
- E. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.
- F. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
- G. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
- H. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion.

3.16 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.



SECTION 017800 CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

- Project record documents.
- B. Operation and maintenance data.
- C. Warranties and bonds.

1.02 RELATED REQUIREMENTS

- Section 013000 Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- B. Individual Product Sections: Specific requirements for operation and maintenance data.
- C. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

- A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
- B. Preliminary Operation and Maintenance Manual: Submit preliminary draft of proposed format and outline of contents in a PDF format before start of Work. Architect will review draft and return with comments.
- C. Final Operation and Maintenance Manual: Submit final manual and electronic copies with claim for final Application for Payment. Architect will retain one electronic copy. The original manual and one electronic copy will be provided to the Owner.
 - 1. At the option of the Owner provide only an electronic copy in PDF format.
- D. Warranties and Bonds: Include originals and electronic copy of each in operation and maintenance manuals, indexed separately on Table of Contents.
- E. Operation and Maintenance Data:
 - 1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect 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 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.

F. Warranties and Bonds:

- 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.

G. Operation and Maintenance Data:

- 1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
- 2. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect comments. Revise content of all document sets as required prior to final submission.
- 3. Submit two sets of revised final documents in final form within 10 days after final inspection.

H. Warranties and Bonds:

 For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.

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- 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. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other modifications to the Contract.
 - 5. Reviewed shop drawings, product data, and samples.
 - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- 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. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and modifications.
- F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Measured depths of foundations in relation to finish first floor datum.
 - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - 4. Field changes of dimension and detail.
 - 5. 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 MATERIALS AND FINISHES

- A. For Each Product, Applied Material, and Finish:
 - 1. Product data, with catalog number, size, composition, and color and texture designations.
 - 2. Information for re-ordering custom manufactured products.
- B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.
- C. Additional information as specified in individual product specification sections.
- D. 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.

3.04 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. Include performance curves, with engineering data and tests.
 - 4. 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 list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- J. Include test and balancing reports.
- K. Additional Requirements: As specified in individual product specification sections.

3.05 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. 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.
- D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- E. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect, Consultants, Contractor and subcontractors, with names of responsible parties.
- F. 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.
- G. 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.
- H. Text: Manufacturer's printed data, or typewritten data on 20 pound paper.
- I. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- J. Arrangement of Contents: Organize each volume in parts as follows:
 - 1. Project Directory.
 - 2. Table of Contents, of all volumes, and of this volume.
 - 3. Operation and Maintenance Data: Arranged by system, then by product category.
 - Source data.
 - b. Product data, shop drawings, and other submittals.
 - c. Operation and maintenance data.
 - d. Field quality control data.
 - e. Original warranties and bonds.

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K. Electronic Copy: Provide two copies of all operation and maintenance data in a PDF format on a flash drive. Locate storage devices in the front of the operation and maintenance manual. Label device with project name and substantial completion date.

3.06 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.

SECTION 024100 DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Selective demolition of built site elements.
- B. Selective demolition of building elements for alteration purposes.

1.02 RELATED REQUIREMENTS

- A. Section 003100 Available Project Information: Existing building survey conducted by Owner; information about known hazardous materials.
- B. Section 011000 Summary: Limitations on Contractor's use of site and premises.
- C. Section 011000 Summary: Description of items to be salvaged or removed for re-use by Contractor.
- D. Section 015000 Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- E. Section 016000 Product Requirements: Handling and storage of items removed for salvage and relocation.
- F. Section 017000 Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.
- G. Section 312323 Fill: Fill material for filling holes, pits, and excavations generated as a result of removal operations.

1.03 DEFINITIONS

- A. Demolition: Dismantle, raze, destroy or wreck any building or structure or any part thereof.
- B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or reinstalled.
- C. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and deliver salvaged items to Owner in ready-for-reuse condition.
- D. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse and reinstall where indicated.
- E. Existing to Remain: Designation for existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

1.04 REFERENCE STANDARDS

- A. 29 CFR 1926 Safety and Health Regulations for Construction Current Edition.
- B. NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations 2022, with Errata (2021).

PART 3 EXECUTION

2.01 DEMOLITION

- A. Remove paving and curbs required to accomplish new work.
- B. Remove all other paving and curbs within site boundaries.
- C. Remove concrete slabs on grade within site boundaries.
- D. Remove fences and gates.
- E. Remove other items indicated, for salvage, relocation, recycling, and
- F. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as specified in Section 312200.

2.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Use of explosives is not permitted.
 - 3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of

unstable structures.

- 4. Provide, erect, and maintain temporary barriers and security devices.
- 5. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
- 6. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
- Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
- 8. 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.
- 9. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Protect existing structures and other elements to remain in place and not removed.
 - Provide bracing and shoring.
 - 2. Prevent movement or settlement of adjacent structures.
 - 3. Stop work immediately if adjacent structures appear to be in danger.
- D. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

2.03 EXISTING UTILITIES

- A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.

2.04 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only.
 - 1. Verify construction and utility arrangements are as indicated.
 - 2. Report discrepancies to Architect 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 areas that remain occupied.
 - 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 015000 in locations indicated on drawings.
- C. Remove existing work as indicated and required to accomplish new work.
 - 1. Remove items indicated on drawings.
- D. Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated.
 - 1. Maintain existing active systems to remain in operation, and maintain access to equipment and operational components.
 - 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. Verify that abandoned services serve only abandoned facilities before removal.

- 4. 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.
- E. Protect existing work to remain.
 - 1. Prevent movement of structure. Provide shoring and bracing as required.
 - 2. Perform cutting to accomplish removal work neatly and as specified for cutting new work.
 - 3. Repair adjacent construction and finishes damaged during removal work.
 - 4. Patch to match new work.

2.05 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.



SECTION 024300 STRUCTURE MOVING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preparing structure for move.
- B. Moving structure to new location.
- C. Setting structure on new foundation.
- D. Disconnecting and capping utilities at original location.
- E. Connecting utilities at new location.

1.02 RELATED REQUIREMENTS

A. Section 024100 - Demolition: Removal of existing foundation after structure removal.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Arrange for route of move with authorities having jurisdiction and comply with its requirements for the move including, but not limited to, traffic control, police escorts, and relocation of overhead utility services in the route.
- B. Coordination: Ensure utilities at new location are ready for connection.

1.04 QUALITY ASSURANCE

- A. Mover Qualifications: Company specializing in relocating building structures with minimum of three years of documented experience.
- B. Retain services of a Professional Structural Engineer experienced in this Work and licensed in North Carolina for the following:

PART 2 PRODUCTS

2.01 EQUIPMENT AND MATERIALS

A. Transport, Equipment, and Supports: As required to achieve a successful structure move.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Identify utility services and obstructions to be removed, relocated, or abandoned during progress of the Work.
- B. Damage Determination:
 - 1. Before the move, inspect existing structure thoroughly and notify Architect in writing of visible defects and factors that could affect safe movement of structure to final location.

3.02 PREPARATION

- A. Prepare site, route of transport, and destination site.
- B. Remove building protrusions prior to move.
- C. Secure supplementary framing and bracing to structure.
- D. Secure operating, moving, or suspended items such as doors, windows, and light fixtures in a manner to prevent damage to items or to the structure during move.
- E. Protect elements surrounding the structure from damage.

3.03 RAISE STRUCTURE

- A. Cut structure free of foundation and portions of structure not being moved.
- B. Reinforce, brace, and raise structure clear of foundation in manner to prevent damage.
- C. Provide necessary framing, bracing, closures, supports, and blocking.
- D. Secure structure to temporary supporting structural members to prevent shifting of structure during move.

3.04 MOVE STRUCTURE

- A. Move structure, control speed, and provide anchor and restraining devices to maintain the integrity of the structure.
- B. During move, protect adjacent structures, and private and public property from damage.

3.05 REINSTALL STRUCTURE

- A. Position and anchor structure over prepared foundation and lower onto new foundation.
- B. Remove moving equipment.
- C. Leave reinforcing, framing, and bracing intact until structure is fully attached and structure loads are supported by new foundation.

3.06 TOLERANCES

- A. Maximum Variation from Level and Plumb After Reinstallation: 1/4 inch.
- B. Maximum Offset from True Position After Reinstallation: 1/4 inch.
- C. Adjust structure on foundation:
 - 1. To permit doors to swing freely.
 - 2. So that floor surfaces are level, walls are plumb.

3.07 DAMAGE REPAIR

- A. Repair damage to structure not identified in writing prior to move.
- B. Refinish repaired surfaces to match adjacent work.
- C. Pay all third party claims for incidental or other damage.

3.08 CLEANING

- A. Remove moving equipment and materials from original site, final site, and route of travel.
- B. Remove road base constructed by this section, fill and return grades and contours to original condition and dimension.

SECTION 033000 CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 SECTION INCLUDES

- Floors and slabs on grade.
- B. Concrete curing.

1.02 RELATED REQUIREMENTS

- A. Section 031000 Concrete Forming and Accessories: Forms and accessories for formwork.
- B. Section 032000 Concrete Reinforcing.
- C. Section 079200 Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.

1.03 REFERENCE STANDARDS

- A. ACI CODE-318 Building Code Requirements for Structural Concrete and Commentary 2019 (Reapproved 2022).
- B. ACI PRC-211.1 Selecting Proportions for Normal-Density and High Density-Concrete Guide 2022.
- C. ACI PRC-302.1 Guide to Concrete Floor and Slab Construction 2015.
- D. ACI PRC-304 Guide for Measuring, Mixing, Transporting, and Placing Concrete 2000 (Reapproved 2009).
- E. ACI PRC-305 Guide to Hot Weather Concreting 2020.
- F. ACI PRC-306 Guide to Cold Weather Concreting 2016.
- G. ACI PRC-308 Guide to External Curing of Concrete 2016.
- H. ACI PRC-347 Guide to Formwork for Concrete 2014 (Reapproved 2021).
- I. ACI SPEC-117 Specification for Tolerances for Concrete Construction and Materials 2010 (Reapproved 2015).
- J. ACI SPEC-301 Specifications for Concrete Construction 2020.
- K. ASTM A615/A615M Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement 2022.
- L. ASTM A767/A767M Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement 2019.
- M. ASTM A884/A884M Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement 2019, with Editorial Revision (2020).
- N. ASTM A1064/A1064M Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete 2022.
- O. ASTM C33/C33M Standard Specification for Concrete Aggregates 2018.
- P. ASTM C94/C94M Standard Specification for Ready-Mixed Concrete 2023.
- Q. ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens) 2021.
- R. ASTM C143/C143M Standard Test Method for Slump of Hydraulic-Cement Concrete 2020.
- S. ASTM C150/C150M Standard Specification for Portland Cement 2022.
- T. ASTM C157/C157M Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete 2017.
- U. ASTM C171 Standard Specification for Sheet Materials for Curing Concrete 2020.
- V. ASTM C173/C173M Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method 2016.
- W. ASTM C260/C260M Standard Specification for Air-Entraining Admixtures for Concrete 2010a (Reapproved 2016).
- X. ASTM D994/D994M Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type) 2011 (Reapproved 2022).
- Y. ASTM D1751 Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types) 2018.
- ASTM E1155 Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers 2020.

- AA. ASTM E1155M Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers (Metric) 2014.
- BB. COE CRD-C 48 Handbook for Concrete and Cement Standard Test Method for Water Permeability of Concrete 1992.

1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
- C. Mix Design: Submit proposed concrete mix design.
 - Indicate proposed mix design complies with requirements of ACI SPEC-301, Section 4 -Concrete Mixtures.
 - 2. Indicate proposed mix design complies with requirements of ACI CODE-318, Chapter 5 Concrete Quality, Mixing and Placing.
- D. Test Reports: Submit report for each test or series of tests specified.
- E. Manufacturer's Installation Instructions: For concrete accessories, indicate installation procedures and interface required with adjacent construction.
- F. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI SPEC-301 and ACI CODE-318.
- B. Follow recommendations of ACI PRC-305 when concreting during hot weather.
- C. Follow recommendations of ACI PRC-306 when concreting during cold weather.

1.06 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 REINFORCEMENT MATERIALS

- A. Comply with requirements of Section 032000.
- B. Steel Welded Wire Reinforcement (WWR): REF. Civil.
 - 1. Form: REF. Civil.
 - 2. WWR Style: REF. Civil.

2.02 CONCRETE MATERIALS

A. REF. Civil drawings for Concrete Materials, finish and color.

2.03 ADMIXTURES

- A. REF. Civil Drawings for admixtures.
- B. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.

2.04 ACCESSORY MATERIALS

A. REF Civil Drawings for Accessory Materials

2.05 CURING MATERIALS

A. REF. Civil Drawings for Curing Materials

2.06 CONCRETE MIX DESIGN

- A. REF Civil Drawings for Concrete Mix Design
- B. Admixtures: Add acceptable admixtures as recommended in ACI PRC-211.1 and at rates recommended or required by manufacturer.

2.07 MIXING

- A. REF. Civil Drawings for Mixing Requirements.
- B. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.02 PREPARATION

3.03 PLACING CONCRETE

- A. REF Civil Drawings for Placeing Concrete.
- B. Place concrete in accordance with ACI PRC-304.
- C. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- D. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or high-pressure water jetting.
- E. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.

3.04 SLAB JOINTING

- A. Locate joints as indicated on drawings.
- B. Anchor joint fillers and devices to prevent movement during concrete placement.
- C. Isolation Joints: Use preformed joint filler with removable top section for joint sealant, total height equal to thickness of slab, set flush with top of slab.
- D. Saw Cut Contraction Joints: Saw cut joints before concrete begins to cool, within 4 to 12 hours after placing; use 3/16 inch thick blade and cut at least 1 inch deep but not less than one quarter (1/4) the depth of the slab.

3.05 SEPARATE FLOOR TOPPINGS

- A. Prior to placing floor topping, roughen substrate concrete surface and remove deleterious material. Broom and vacuum clean.
- B. Place required dividers, edge strips, reinforcing, and other items to be cast in.
- C. Apply bonding agent to substrate in accordance with manufacturer's instructions.

3.06 FLOOR FLATNESS AND LEVELNESS TOLERANCES

- A. Maximum Variation of Surface Flatness:
 - 1. Exposed Concrete Floors: 1/4 inch in 10 feet.
 - 2. Under Seamless Resilient Flooring: 1/4 inch in 10 feet.
 - 3. Under Carpeting: 1/4 inch in 10 feet.
- B. Correct the slab surface if tolerances are less than specified.
- C. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same process.

3.07 CONCRETE FINISHING

- A. Concrete Slabs: Finish to requirements of ACI PRC-302.1 and as follows:
 - Surfaces to Receive Thick Floor Coverings: "Wood float" as described in ACI PRC-302.1; thick floor coverings include quarry tile, ceramic tile, and Portland cement terrazzo with full bed setting system.
 - 2. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI PRC-302.1; thin floor coverings include carpeting, resilient flooring, seamless flooring, resinous matrix terrazzo, thin set quarry tile, and thin set ceramic tile.
 - Other Surfaces to Be Left Exposed: Trowel as described in ACI PRC-302.1, minimizing burnish marks and other appearance defects.

3.08 CURING AND PROTECTION

- A. Comply with requirements of ACI PRC-308. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
- B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
 - 1. Normal concrete: Not less than seven days.

2. High early strength concrete: Not less than four days.

C. Surfaces Not in Contact with Forms:

- 1. Slabs and Floors To Receive Adhesive-Applied Flooring: Curing compounds and other surface coatings are usually considered unacceptable by flooring and adhesive manufacturers. If such materials must be used, either obtain the approval of the flooring and adhesive manufacturers prior to use or remove the surface coating after curing to flooring manufacturer's satisfaction.
- 2. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water ponding, water-saturated sand, water-fog spray, or saturated burlap.
- 3. Final Curing: Begin after initial curing but before surface is dry.

3.09 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 014000 Quality Requirements.
- B. Provide free access to concrete operations at project site and cooperate with appointed firm.
- C. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
- D. Tests of concrete and concrete materials may be performed at any time to ensure compliance with specified requirements.
- E. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
- F. Perform one slump test for each set of test cylinders taken, following procedures of ASTM C143/C143M.
- G. Slab Testing: Cooperate with manufacturer of specified moisture vapor reducing admixture (MVRA) to allow access for sampling and testing concrete for compliance with warranty requirements.

3.10 DEFECTIVE CONCRETE

- A. Test Results: The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.
- B. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.
- C. Repair or replacement of defective concrete will be determined by the Architect. The cost of additional testing shall be borne by Contractor when defective concrete is identified.

3.11 PROTECTION

A. Do not permit traffic over unprotected concrete floor surface until fully cured.

3.12 SCHEDULE - CONCRETE TYPES AND FINISHES

- A. Foundation Walls: 3,000 pounds per square inch 28 day concrete, form finish with honeycomb filled surface.
- B. Underside of Supported Floors and Structure Exposed to View: 4,000 pounds per square inch 28 day concrete, form finish with honeycomb filled surface.
- C. Exposed Portico Structure: 4,000 pounds per square inch 28 day concrete, air entrained, smooth rubbed finish.



SECTION 116833 ATHLETIC FIELD EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Baseball field equipment.
- B. Outdoor field fencing.
- C. Outdoor baseball cage.

1.02 RELATED REQUIREMENTS

- A. Section 033000 Cast-in-Place Concrete: Footings for field equipment.
- B. Section 312200 Grading: Shaping subgrade to specified grade levels; removal of excess soil and rocks.

1.03 REFERENCE STANDARDS

- A. ASTM A53/A53M Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless 2022.
- B. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products 2017.
- C. ASTM A135/A135M Standard Specification for Electric-Resistance-Welded Steel Pipe 2021.
- D. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes 2021a.
- E. ASTM A513/A513M Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing 2020a.
- F. ASTM B26/B26M Standard Specification for Aluminum-Alloy Sand Castings 2018, with Editorial Revision.
- G. ASTM B108/B108M Standard Specification for Aluminum-Alloy Permanent Mold Castings 2019.
- H. ASTM B179 Standard Specification for Aluminum Alloys in Ingot and Molten Forms for Castings from All Casting Processes 2018.
- I. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes 2021.
- J. ASTM B221M Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2021.
- K. ASTM C94/C94M Standard Specification for Ready-Mixed Concrete 2023.
- L. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass 2018.
- M. ASTM D648 Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position 2018.
- N. ASTM D3363 Standard Test Method for Film Hardness by Pencil Test 2022.
- O. ASTM D6662 Standard Specification for Polyolefin-Based Plastic Lumber Decking Boards 2022.
- P. AWPA U1 Use Category System: User Specification for Treated Wood 2023.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meetings: Convene a meeting one week before starting this work to discuss coordination between various installers.
 - 1. Require attendance by personnel responsible for grading and installers of athletic field equipment, footings, and adjacent work.

1.05 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide athletic field equipment manufacturer's product data indicating materials of construction, compliance with specified standards, installation procedures, and necessary safety limitations.
- C. Shop Drawings: Submit detailed scale drawings showing athletic field equipment and perimeter layout.
 - 1. Indicate locations and dimensions of footings and anchorage points.
 - Identify mounting elevations in relation to fixed survey point on site, and subgrade elevation.
 - 3. Indicate location of underground utilities, storm drainage system, and irrigation system.
 - 4. Indicate location of related construction such as walkways and roadways, fences, _____, and site furnishings.
- Samples: Submit color chart for each item that color must be selected showing full range of colors and finishes.
- E. Maintenance Data: Submit manufacturer's recommended maintenance instructions and list of replaceable parts for each athletic field equipment item, along with supplier's address and phone number.
- F. Manufacturer's Qualification Statement.
- G. Installer's Qualification Statement.
- H. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience

1.07 DELIVERY, STORAGE, AND HANDLING

 Deliver, handle, and store equipment on project site in accordance with manufacturer's recommendations.

1.08 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Athletic Field Equipment:
 - Sports Field Specialties: bjaeger@sportsfield.com.
 - 2. BSN Sports, Bobby Pennington bpennington@bsnsports.com
 - 3. Substitutions: See Section 016000 Product Requirements.

2.02 ATHLETIC FIELD EQUIPMENT - GENERAL

- A. Mount supporting posts in concrete footings, unless otherwise indicated, refer to Section 033000 for additional concrete footing installation requirements.
 - 1. Provide supports as required to mount equipment at proper height above finished grade.
- B. Safety and Warning Signage: Provide signage as indicated on drawings and required by authorities having jurisdiction.

2.03 BASEBALL FIELD EQUIPMENT

- A. Manufacturers:
 - 1. Sports Field Specialties: bjaeger@sportsfield.com.

- 2. BSN Sports, Bobby Pennington bpennington@bsnsports.com.
- B. Ball Field Bases: Anchored bases for baseball field, locations as indicated on drawings.
 - 1. Size: 15 inch by 15 inch and 3 inch thick.
 - Base Support Plate: Rust resistant, steel anchor system and stanchion pan.
 - 3. Base: Tough pebble embossed, UV resistant rubber top that prevents spikes from slipping or puncturing base surface, heavy duty polyurethane foam pad interior, with reinforced non-collapsing side walls.
- C. Home Plate: Tough molded rubber, colored white, with 3/4 inch wide beveled black perimeter, including hardware for base assembly, anchor, and base plug; 17 inch wide across front, 8-1/2 inch long on each side, and two 12 inch long edges on rear at 45 degree angle to sides creating point at back.
- D. Pitcher's Plate: Heavy duty, UV resistant rubber system in white color; size of 6 inch by 24 inch by 11/16 inch thick.
- E. Foul Ball Poles, In-Ground Mounted: Constructed from extruded aluminum pipe with yellow finish and offset wing of aluminum mesh on fair side of pair of poles, 20 feet high, 4-1/2 inch diameter.
 - 1. Provide concrete footing of size required to support foul ball poles.
 - Match existing warning track mix. Ref Civil Drawings for size

2.04 OUTDOOR BASEBALL CAGE

- A. Manufacturers:
 - 1. Sports Field Specialties: bjaeger@sportsfield.com.
 - 2. BSN Sports, Bobby Pennington bpennington@bsnsports.com.
 - 3. Substitutions: See Section 016000 Product Requirements.
- B. Outdoor Baseball Cage: Overhead superstructure with netting supported by 4 inch diameter extruded aluminum poles equipped with rope and pulley system to raise and lower net at post locations.
 - 1. Size of Cage: Two cages back to back. 77 feet long by 48 feet wide by 15 feet high.
 - Support Poles: Located approximately 18 feet on center, and at 2 feet from outside edge of net on both sides.
 - a. Color: Black.
 - 3. Netting: No.36 by 3/4 inch square mesh high-density polyethylene (HDPE) netting.
 - a. Color: Black.
 - 4. Mount support posts 12 inches deep inside metal or PVC pipe sleeves with top flush with ground, and set within concrete footing having 10 inch top diameter and 15 inch bottom diameter and 36 inches deep; provide drainage line from bottom of sleeve out bottom of footing; provide cap to close top of sleeve when not in use.
 - 5. Floor Finish: Unpadded artificial turf with moveable Home Plate mats.
 - Provide hardware and accessories as required for complete assembly.
 - Ensure there is enough room on all 4 sides of cage for player access and circulation.

2.05 OUTDOOR BASEBALL SOFT TOSS STATION

- A. Manufacturers:
 - 1. Sports Field Specialties: bjaeger@sportsfield.com
 - 2. BSN Sports, Bobby Pennington bpennington@bsnsports.com
 - 3. Substitutions: See Section 016000 Product Requirements
- B. Soft Toss Station (BOD)
 - 1. Sports Field Specialties STNSIL In-Line Soft Toss Netting System.
 - 2. Sports Field Specialties STNS4 Standalone Quad Soft Toss Netting System.

2.06 MATERIALS

- A. Extruded Aluminum: ASTM B221 or ASTM B221M, Alloy 6061, 6062, or 6063.
 - 1. Tensile Strength: 39,000 psi, minimum.
 - 2. Yield Point: 36,500 psi, minimum.

- B. Hardware: Provide design without hazardous protrusions, corners, or finishes, and requiring tools for removal after installation; countersunk fasteners are preferred.
 - Use stainless steel for metal-to-metal connections; select type to minimize galvanic corrosion of materials connected by hardware.
 - 2. Use stainless steel for wood-to-wood and wood-to-metal connections.
 - 3. Use stainless steel with plastic components.
 - 4. Bearings: Self lubricating.
 - 5. Hooks, Including S-Hooks: Closed loop; maximum gap 0.04 inches.
 - 6. Rails and Loops: Same metal as item is mounted on, or aluminum; with powder coating.
 - 7. Anchors: In accordance with manufacturer's recommendations.
- C. Concrete: ASTM C94/C94M ready mix concrete; 28 days strength of 3,000 psi.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify location of underground utilities and facilities in athletic field equipment area; damage to underground utilities and facilities will be repaired at Contractor's expense.

3.02 PREPARATION

- A. Stake location of athletic field equipment elements, including necessary athletic field perimeters, surfacing, access and egress points, hard surfaces, walls, fences, _____, and/or structures.
- B. Stake layout of athletic field equipment perimeter in accordance with approved shop drawings before starting any work.
 - Verify that athletic field perimeters do not overlap hard surfaces, whether currently installed or not.
 - 2. Verify that athletic fields are free of obstructions.
 - 3. If conflicts or obstructions are found, notify Architect.
 - 4. Do not proceed with this work until revised drawings have been provided, showing corrected layout, and that any obstructions have been removed or corrections to layout have been made.

3.03 INSTALLATION

- A. Install athletic field equipment in accordance with manufacturer's instructions, and rules and regulations of specified athletic association indicated for this work.
- B. Install athletic field equipment without sharp points, edges, or protrusions; entanglement hazards or pinch, crush, or shear points.
- C. Install safety and warning signage, as follows, in accordance with indicated requirements.
 - 1. Field safety signs.
 - 2. Baseball field warning signs.
 - 3. Batting cage rules signs.
 - 4. Field identification signs.

3.04 CLEANING

- A. Clean athletic field equipment of construction materials, dirt, stains, filings, and blemishes due to shipment or installation; clean in accordance with manufacturer's instructions, using cleaning agents as recommended by manufacturer.
- B. Clean athletic field area of excess construction materials, debris, and waste.
- C. Remove excess and waste material and dispose of off-site in accordance with requirements of authorities having jurisdiction.

3.05 PROTECTION

- A. Protect installed products until Date of Substantial Completion.
- B. Replace damaged products before Date of Substantial Completion.





PART 1 - GENERAL

1.01 SUMMARY

A. This section includes requirements for stadium seat covers including materials, installation, and related work as indicated on the drawings and specified herein.

1.02 RELATED DOCUMENTS

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

1.03 REFERENCES

- A. Applicable references include:
- B. [List relevant references or standards if applicable]

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Stadium seat covers shall be of high-quality materials suitable for outdoor use in the intended environment. Materials shall be resistant to fading, weathering, and damage from UV radiation.
- B. Provide color and material samples for approval by the Architect or Engineer prior to procurement and installation.

2.02 FABRICATION

- A. Fabricate stadium seat covers to the dimensions and specifications indicated on the drawings.
- B. Ensure proper stitching, seaming, and reinforcement to withstand the stresses and strains of use in a stadium environment.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that the substrate and existing seating structure are in suitable condition to receive seat covers. Any defects or deficiencies in the substrate should be corrected prior to installation.

3.02 INSTALLATION

- A. Install stadium seat covers in accordance with the manufacturer's recommendations and approved shop drawings.
- B. Ensure proper alignment and tension to avoid wrinkles or sagging while maintaining a neat and uniform appearance.
- C. Securely attach seat covers to the seating structure using approved methods. Ensure that attachment points are evenly distributed to prevent stress concentrations.

3.03 CLEANING AND MAINTENANCE

- A. Provide maintenance guidelines to the Owner, including cleaning procedures and recommended cleaning agents for the seat covers.
- B. Advise the Owner on the frequency of cleaning and maintenance required to preserve the appearance and longevity of the seat covers.

3.04 WARRANTY

- A. The Contractor shall provide a warranty for the stadium seat covers for a specified period (e.g., 5 years) from the date of substantial completion. The warranty shall cover defects in materials and workmanship, including fading, tearing, and UV damage.
- B. During the warranty period, the Contractor shall promptly address and rectify any issues covered under the warranty at no additional cost to the Owner.

END OF SECTION

1



SECTION 323113 CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Posts, rails, and frames.
- B. Wire fabric.
- C. Concrete.
- D. Manual gates with related hardware.
- E. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 033000 - Cast-in-Place Concrete: Concrete anchorage for posts.

1.03 REFERENCE STANDARDS

- A. ASTM A121 Standard Specification for Metallic-Coated Carbon Steel Barbed Wire 2022.
- B. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products 2017.
- C. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2023.
- D. ASTM A392 Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric 2011a (Reapproved 2022).
- E. ASTM A428/A428M Standard Test Method for Weight [Mass] of Coating on Aluminum-Coated Iron or Steel Articles 2021.
- F. ASTM A491 Standard Specification for Aluminum-Coated Steel Chain-Link Fence Fabric 2011 (Reapproved 2022).
- G. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2022.
- H. ASTM A1011/A1011M Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength 2018a.
- I. ASTM C94/C94M Standard Specification for Ready-Mixed Concrete 2023.
- J. ASTM F567 Standard Practice for Installation of Chain-Link Fence 2023.
- K. ASTM F668 Standard Specification for Polyvinyl Chloride (PVC), Polyolefin and Other Polymer-Coated Steel Chain Link Fence Fabric 2017 (Reapproved 2022).
- L. ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework 2018 (Reapproved 2022).
- M. ASTM F1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures 2018 (Reapproved 2022).
- N. ASTM F1665 Standard Specification for Poly(Vinyl Chloride) (PVC) and Other Conforming Organic Polymer-Coated Steel Barbed Wire Used with Chain-Link Fence 2008 (Reapproved 2022).
- O. ASTM F2200 Standard Specification for Automated Vehicular Gate Construction 2020.
- P. BHMA A156.3 Exit Devices 2020.
- Q. CLFMI CLF-FIG0111 Field Inspection Guide 2014.
- R. CLFMI CLF-PM0610 Product Manual 2017.
- S. CLFMI CLF-SFR0111 Security Fencing Recommendations 2014.
- T. CLFMI WLG 2445 Wind Load Guide for the Selection of Line Post and Line Post Spacing 2018.

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- U. FS RR-F-191/1D Fencing, Wire and Post Metal (Chain-Link Fence Fabric) 1990.
- V. NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum) 2020.
- W. NFPA 70 National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- X. UL 50 Enclosures for Electrical Equipment, Non-Environmental Considerations Current Edition, Including All Revisions.
- Y. UL 50E Enclosures for Electrical Equipment, Environmental Considerations Current Edition, Including All Revisions.
- Z. UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.
- C. Design Calculations: For high wind load areas, provide calculations for fence fabric and accessory selection as well as line post spacing and foundation details. See CLFMI WLG 2445 for line post and spacing guidance.
- D. Manufacturer's Installation Instructions: Indicate installation requirements, post foundation anchor bolt templates, and _____.
- E. Fence Installer Qualification Statement.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Fence Installer: Company with demonstrated successful experience installing similar projects and products, with not less than five years of documented experience.

1.06 WARRANTY

- See Section 017800 Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Chain Link Fences and Gates:
- B. Sports Field Specialties bjaeger@sportsfield.com

2.02 COMPONENTS

- A. Line Posts: REF. Civil inch diameter.
- B. Corner and Terminal Posts: REF. Civil inch diameter.
- C. Fabric (where shown on drawings): high-density woven polypropylene material designed for outdoor use in harsh weather conditions. The material shall be resistant to UV radiation, moisture, and mildew growth.
- D. The fence block shall provide a minimum of 98% privacy blockage when properly installed.

2.03 PRODUCTS

- A. A. Fence block shall be supplied by a manufacturer with a proven track record of producing quality products that meet or exceed industry standards.
- B. Tension Wire: 6 gauge, 0.1920 inch thick steel, single strand.
- C. Tie Wire: Aluminum alloy steel wire.

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2.04 MATERIALS

- A. Posts, Rails, and Frames: Per Civil Drawings:
 - 1. Line Posts: Type I round in accordance with FS RR-F-191/1D.
 - Terminal, Corner, Rail, Brace, and Gate Posts: Type I round in accordance with FS RR-F-191/1D.
- B. Wire Fabric: REF. Civil:
- C. Gates: REF. Civil Drawings for sizes and details.
 - 1. For 20' Gates use Hoover Fence's Commercial Chainlink Fence Double Gates. All 1-5/8" Galvanized HF20 Frame 6'H x 20'W for basis of design.
- D. Concrete: Ref. Civil Drawings:

2.05 MANUAL GATES AND RELATED HARDWARE

- A. Ref Civil Drawings
- B. Latches: Finished to match fence components.
 - 1. Ref Civil Drawings

2.06 ACCESSORIES

- A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer.
- B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.
- C. Where new fencing is on adjacent to field of play match existing safty accessories.

2.07 FINISHES

A. Components (Other than Fabric): Galvanized in accordance with ASTM A123/A123M, at 1.7 ounces per square foot. Match existing. Reference Civil Drawings.

PART 3 EXECUTION

3.01 PREPARATION

- A. Removal: Obstructions or debris.
- B. Ground Preparation:
 - 1. Grading Ref Civil Drawings.

3.02 INSTALLATION

- A. Install framework, fabric, accessories and gates in accordance with ASTM F567.
- B. Place fabric on inside of posts and rails.
- C. Install the fence block in accordance with the manufacturer's recommendations and approved shop drawings.
- D. Fence block shall be securely attached to the fence structure using appropriate fasteners or attachment methods. Ensure that attachment points are evenly distributed to prevent stress concentrations.
- E. Maintain a consistent and level installation of the fence block to ensure a professional appearance. Trim or adjust the fence block as necessary to fit the fencing layout
- F. Line Post Footing Depth Below Finish Grade: ASTM F567.
- G. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567.
- H. Do not stretch fabric until concrete foundation has cured 28 days.
- I. Stretch fabric between terminal posts or at intervals of 100 feet maximum, whichever is less.
- J. Position bottom of fabric 2 inches above finished grade.
- K. Fasten fabric to top rail, line posts, braces, and bottom tension wire with tie wire at maximum 15 inches on centers.
- L. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips.

- M. Do not attach the hinged side of gate to building wall; provide gate posts.
- N. Provide concrete center drop to footing depth and drop rod retainers at center of double gate openings.
- O. Peen all bolts upon installation.
- P. Perform three random field inspections confirming proper installation.
- Q. Install operator in accordance with manufacturer's instructions and in accordance with NFPA 70.

3.03 TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch.
- B. Maximum Offset From True Position: 1 inch.
- C. Do not infringe on adjacent property lines.

3.04 FIELD QUALITY CONTROL

- A. See Section 014000 Quality Requirements, for additional requirements.
- B. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.
- C. Post Settings: Randomly inspect three locations against design for:
 - 1. Hole diameter.
 - 2. Hole depth.
 - 3. Hole spacing.
- D. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design. Ref Civil Drawings for Heights.
- E. Gates: Inspect for level, plumb, and alignment.
- F. Workmanship: Verify neat installation free of defects. See CLFMI CLF-FIG0111 for field inspection guidance.

3.05 CLEANING

- A. Leave immediate work area neat at end of each work day.
- B. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
- C. Clean fence with mild household detergent and clean water rinse well.
- D. Remove mortar from exposed posts and other fencing material using a 10 percent solution of muriatic acid followed immediately by several rinses with clean water.
- E. Touch up scratched surfaces using materials recommended by manufacturer. Match touchedup paint color to factory-applied finish.
- F. See Section 017419 Construction Waste Management and Disposal, for additional requirements.
- G. . Provide maintenance guidelines to the Owner, including cleaning procedures and recommended cleaning agents for the fence block.
- H. Advise the Owner on the frequency of cleaning and maintenance required to preserve the appearance and effectiveness of the fence block.

3.06 CLOSEOUT ACTIVITIES

- A. See Section 017800 Closeout Submittals, for closeout submittals.
- B. Demonstrate proper operation of equipment to Owner's designated representative.
- C. Demonstration: Demonstrate operation of system to Owner's personnel.
 - 1. Use operation and maintenance data as reference during demonstration.
 - 2. Conduct walking tour of project.

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3. Briefly describe function, operation, and maintenance of each component.

3.07 WARRENTY

- A. The Contractor shall provide a warranty for the fence block with 98% privacy blockage for a specified period (e.g., 5 years) from the date of substantial completion. The warranty shall cover defects in materials and workmanship, including UV degradation, tearing, and fading.
- B. During the warranty period, the Contractor shall promptly address and rectify any issues covered under the warranty at no additional cost to the Owner



SECTION 329000 EXISTING GRASS SALVAGE

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes requirements for salvaging and preserving existing grass as indicated on the drawings and as specified herein.

1.02 RELATED DOCUMENTS

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

1.03 REFERENCES

- A. Applicable references include:
 - [List relevant references or standards if applicable]

PART 2 - PRODUCTS

2.01 MATERIALS

A. No additional materials are required for salvaging existing grass. The existing grass will be salvaged as is, without modification.

PART 3 - EXECUTION

3.01 EXISTING GRASS SALVAGE

- A. Prior to any construction activities, carefully remove existing grass in areas designated on the drawings or as directed by the Engineer. Salvage the grass in a manner that preserves its integrity and ensures successful transplantation.
- B. Use appropriate equipment and methods to minimize damage to the grass during removal. The grass shall be carefully lifted to maintain intact root systems.
- C. Transport salvaged grass to the designated storage area or relocation site. Handle salvaged grass with care to prevent damage.
- D. Store salvaged grass in a shaded area with adequate moisture until it can be replanted or reinstalled. Regularly water and maintain the salvaged grass to ensure its health.
- E. Coordinate with the landscape architect or horticulturist to determine the appropriate timing and methods for replanting or reinstallation of the salvaged grass.

3.02 PROTECTION

- A. Protect salvaged grass from foot traffic, construction activities, and adverse weather conditions during storage and transportation.
- B. Take measures to prevent the drying out or wilting of salvaged grass during storage and transportation.

3.03 WARRANTY

A. The Contractor shall provide a warranty for a specified period (e.g., 90 days) from the date of replanting or reinstallation, ensuring the survival and establishment of the salvaged grass. During this period, the Contractor shall replace any dead or unsatisfactory grass with healthy, compatible replacement material at no additional cost.

