PROJECT MANUAL

ISSUED FOR BID

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240 Continental Drive, Suite 200 Newark, Delaware 19713 Phone: 302.738.7551 Fax: 302.454.5989

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Fred Fifer III Middle School Roof & Thru-Wall Flashing Replacement

109 E Camden-Wyoming Ave. Camden, DE 19934 Kent County, Delaware

Caesar Rodney School District Contract #: SRS-17-004-Firoof

200-163183-17001

April 19, 2017

FRED FIFER III MIDDLE SCHOOL ROOF & THRU-WALL FLASHING REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT CAMDEN, DELAWARE





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INVITATION TO BID

(PLACEHOLDER – TO BE PROVIDED BY DFM)

	will be
received by the State of Delaware, Office of Management and Budget, Division of Facilities Management	
at the until local time on 20, at which time they will be publicly opened and read aloud in the Conference Room. Bidder	,
	Jure ne
risk of late delivery. Any bids received after the stated time will be returned unopened.	
Project involves	
	<u> </u>
Attention is called to construction schedule as detailed in the Bid Documents.	
The second state in the second state of the se	
This contract will be awarded on the basis of best value. Attention is called to the bid Document	s which
detail the criteria and associated weights which shall be used as the basis of a rard. (OPTIONAL - Yes \Box No \Box)	- insert
A MANDATORY Pre-Bid Meeting will be held on	he
A MANDATORY Pre-Bid Meeting will be held on, 20_, atat t	and to
answer questions. Representatives of each party to any John Venture must attend this n	neeting.
ATTENDANCE OF THIS MEETING IS A PREREQUISITE FOR BIDDING ON THIS CONTRACT.	
Cooled hide shall be addressed to the Division of Emiliated (programment	
Sealed bids shall be addressed to the Division of Facilities Management	<u> </u>
SEALED BID DO NOT OPEN."	
Contract documents may be obtained at the office ofupo	on
receipt of \$per set/non-refundable. Checks are to be made payable to "	
	_
Construction documents will be available for review at the following locations:; De	elaware
Contractors Association; Associated Builders and Contractors.	
Bidders will not be subject to discrimination on the basis of race, creed, color, sex, sexual orie	ntation
gender identity or rational origin in consideration of this award, and Minority Business Enter Disadvantaged Business Enterprises, Women-Owned Business Enterprises and Veteran-	- Öwned
Business Enterprises will be afforded full opportunity to submit bids on this contract. Each bid i	nust be
accompanie a bid security equivalent to ten percent of the bid amount and all additive alter	ernates.
The successful bidder must post a performance bond and payment bond in a sum equal to 100 pe	
the contract pice upon execution of the contract. The Owner reserves the right to reject any or all b	
to waive any informalities therein. The Owner may extend the time and place for the opening of t	
from that described in the advertisement, with not less than two calendar days notice by certified of	Jelivery,
factimities machine or other electronic means to those bidders receiving plans.	

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INSTRUCTIONS TO BIDDERS

TABLE OF ARTICLES

- 1. DEFINITIONS
- 2. BIDDER'S REPRESENTATION
- 3. BIDDING DOCUMENTS
- 4. BIDDING PROCEDURES
- 5. CONSIDERATION OF BIDS
- 6. POST-BID INFORMATION
- 7. PERFORMANCE BONDAND PAYMENT BOND
- 8. FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

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ARTICLE 1: GENERAL

- 1.1 DEFINITIONS
- 1.1.1 Whenever the following terms are used, their intent and meaning shall be interpreted as follows:
- 1.2 STATE: The State of Delaware.
- 1.3 AGENCY: Contracting State Agency as noted on cover sheet.
- 1.4 DESIGNATED OFFICIAL: The agent authorized to act for the Agency
- 1.5 BIDDING DOCUMENTS: Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement for Bid, Invitation to Bid, Instructions to Bidders, Supplementary Instructions to Bidders (if any), General Conditions, Supplementary General Conditions, General Requirements, Special Provisions (if any), the Bid Form (including the Non-collusion Statement), and other sample bidding and contract forms. The proposed Contractor, as well as the Drawings, Specifications (Project Manual) and all Addenda issued prior opexecution of the Contract.
- 1.6 CONTRACT DOCUMENTS: The Contract Documents consist of the, Instructions to Bidders, Supplementary Instructions to Bidders, if any), General Conditions, Supplementary General Conditions, General Requirements, Special Provisions (if any), the form of agreement between the Owner and the Contractor, Drawings (if any), Specifications (Project Manual), and all addenda.
- 1.7 AGREEMENT: The form of the Agreement shall be AIA Document A101, Standard Form of Agreement between Owner and Contractor where the basis of payment is a STIPULATED SUM. In the case of conflict between the instructions contained therein and the General Requirements herein, these General Requirements shall prevail.
- 1.8 GENERAL REQUREMENTS (or CONDITIONS): General Requirements (or conditions) are instructions pertaining to the Bidding Documents and to contracts in general. They contain, in summary, requirements of laws of the State; policies of the Agency and instructions to bidders.
- 1.9 SPECIAL PROVISIONS: Special Provisions are specific conditions or requirements poculiar to the bidding documents and to the contract under consideration and are supplemental to the General Requirements. Should the Special Provisions conflict with the General Requirements, the Special Provisions shall prevail.

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ADDENDA: Written or graphic instruments issued by the Owner/Architect prior to the execution of the contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.

- 1.11 BIDDER OR VENDOR: A person or entity who formally submits a Bid for the material or Work contemplated, acting directly or through a duly authorized representative who meets the requirements set forth in the Bidding Documents.
- 1.12 SUB-BIDDER: A person or entity who submits a Bid to a Bidder for materials or labor, or both for a portion of the Work.

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- 1.13 BID: A complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.
- 1.14 BASE BID: The sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids (if any are required to be stated in the bid).
- 1.15 ALTERNATE BID (or ALTERNATE): An amount stated in the Bid, where applicable, to be added to or deducted from the amount of the Base Bid if the corresponding charge in the Work, as described in the Bidding Documents is accepted.
- 1.16 UNIT PRICE: An amount stated in the Bid, where applicable as a price per unit of measurement for materials, equipment or services or a portion of the Work as described in the Bidding Documents.
- 1.17 SURETY: The corporate body which is bound with and for the Contract, or which is liable, and which engages to be responsible for the Contractor's payments of all debts pertaining to and for his acceptable performance of the Work for Vach ne has contracted.
- 1.18 BIDDER'S DEPOSIT: The security designated in the Bid to be furnished by the Bidder as a guaranty of good faith to enter into a contract with the Agency if the Work to be performed or the material or equipment to be furnished is awayded to him.
- 1.19 CONTRACT: The written agreement covering the furnishing and delivery of material or work to be performed.
- 1.20 CONTRACTOR: Any inavidual firm or corporation with whom a contract is made by the Agency.
- 1.21 SUBCONTRACTOR: An individual, partnership or corporation which has a direct contract with a contractor to furnish labor and materials at the job site, or to perform construction labor and furnish naterial in connection with such labor at the job site.
- 1.22 CONTRACT BOND: The approved form of security furnished by the contractor and his survey as a guaranty of good faith on the part of the contractor to execute the work in accordance with the terms of the contract.

ARTICLE 2: ADDER'S REPRESENTATIONS

PRE-BID MEETING

A pre-bid meeting for this project will be held at the time and place designated. Attendance at this meeting is a pre-requisite for submitting a Bid, unless this requirement is specifically waived elsewhere in the Bid Documents.

- 2.2 By submitting a Bid, the Bidder represents that:
- 2.2.1 The Bidder has read and understands the Bidding Documents and that the Bid is made in accordance therewith.

2.1

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- 2.2.2 The Bidder has visited the site, become familiar with existing conditions under which the Work is to be performed, and has correlated the Bidder's his personal observations with the requirements of the proposed Contract Documents.
- 2.2.3 The Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception.
- 2.3 JOINT VENTURE REQUIREMENTS
- 2.3.1 For Public Works Contracts, each Joint Venturer shall be qualified and capible to complete the Work with their own forces.
- 2.3.2 Included with the Bid submission, and as a requirement to bid, a copy of the executed Joint Venture Agreement shall be submitted and signed by all Joint Venturers involved.
- 2.3.3 All required Bid Bonds, Performance Bonds, Material and Caber Parment Bonds must be executed by both Joint Venturers and be placed in both of their names.
- 2.3.4 All required insurance certificates shall name both Joint Venturers.
- 2.3.5 Both Joint Venturers shall sign the Bid Form and shall submit a copy of a valid Delaware Business License with their Bid.
- 2.3.6 Both Joint Venturers shall include their Federal J.I. Number with the Bid.
- 2.3.7 In the event of a mandatory Pre-bid Meeting, each Joint Venturer shall have a representative in attendance.
- 2.3.8 Due to exceptional circumstances and for good cause shown, one or more of these provisions may be waived at the discretion of the State.
- 2.4 ASSIGNMENT CONTITRUST CLAIMS
- 2.4.1 As consideration or the award and execution by the Owner of this contract, the Contractor hereby grants, conveys, sells, assigns and transfers to the State of Delaware all of its right, title and interests in and to all known or unknown causes of action it presently has or may now or hereatter acquire under the antitrust laws of the United States and the State of Delaware, relating to the particular goods or services purchased or acquired by the Owner pursuant to this contract.

ARTICLES: BIDDING DOCUMENTS

3.1 3.1.

COPIES OF BID DOCUMENTS

- Bidders may obtain complete sets of the Bidding Documents from the Architectural/Engineering firm designated in the Advertisement or Invitation to Bid in the number and for the deposit sum, if any, stated therein.
- 3.1.2 Bidders shall use complete sets of Bidding Documents for preparation of Bids. The issuing Agency nor the Architect assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 3.1.3 Any errors, inconsistencies or omissions discovered shall be reported to the Architect immediately.

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- 3.1.4 The Agency and Architect may make copies of the Bidding Documents available on the above terms for the purpose of obtaining Bids on the Work. No license or grant of use is conferred by issuance of copies of the Bidding Documents.
- 3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS
- 3.2.1 The Bidder shall carefully study and compare the Bidding Documents with each other and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall report any errors, inconsistencies, or ambiguities ducovered to the Architect.
- 3.2.2 Bidders or Sub-bidders requiring clarification or interpretation of the bidding Documents shall make a written request to the Architect at least seven dars prior to the date for receipt of Bids. Interpretations, corrections and changes to the Bidding Documents will be made by written Addendum. Interpretations, corrections, or changes to the Bidding Documents made in any other manner shall not be binding.
- 3.2.3 The apparent silence of the specifications as to any detail, or the apparent omission from it of detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and only material and workmanship of the first quality are to be used. Proof of specification compliance will be the responsibility of the Bidder.
- 3.2.4 Unless otherwise provided in the Contract Decuments, the Contractor shall provide and pay for all permits, labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the Work.
- 3.2.5 The Owner will bear the costs or all impact and user fees associated with the project.
- 3.3 SUBSTITUTION
- 3.3.1 The materials products and equipment described in the Bidding Documents establish a standard of quality, required function, dimension, and appearance to be met by any proposed substitution. The specification of a particular manufacturer or model number is not interpled to be proprietary in any way. Substitutions of products for those named will be considered, providing that the Vendor certifies that the function, quality, and performance characteristics of the material offered is equal or superior to that specified. It shall be the bidder's responsibility to assure that the proposed substitution will not affect the intent of the design, and to make any installation modifications required to accommodate the substitution.



Requests for substitutions shall be made in writing to the Architect at least ten days prior to the date of the Bid Opening. Such requests shall include a complete description of the proposed substitution, drawings, performance and test data, explanation of required installation modifications due the substitution, and any other information necessary for an evaluation. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval shall be final. The Architect is to notify Owner prior to any approvals.

3.3.3 If the Architect approves a substitution prior to the receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding.

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- 3.3.4 The Architect shall have no obligation to consider any substitutions after the Contract award.
- 3.4 ADDENDA
- 3.4.1 Addenda will be mailed or delivered to all who are known by the Architect to have received a complete set of the Bidding Documents.
- 3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Doctmonts are on file for that purpose.
- 3.4.3 No Addenda will be issued later than 4 days prior to the date for receipt on Bids except an Addendum withdrawing the request for Bids or one which extends the time or enanges the location for the opening of bids.
- 3.4.4 Each bidder shall ascertain prior to submitting his Bid that the have received all Addenda issued, and shall acknowledge their receipt in their Bid to the appropriate space. Not acknowledging an issued Addenda could be grounds for a termining a bid to be non-responsive.

ARTICLE 4: BIDDING PROCEDURES

- 4.1 PREPARATION OF BIDS
- 4.1.1 Submit the bids on the Bid Forms included with the Bidding Documents.
- 4.1.2 Submit the original Bid Form for each bid. Bid Forms may be removed from the project manual for this purpose.
- 4.1.3 Execute all blanks on the Bid Formin a non-erasable medium (typewriter or manually in ink).
- 4.1.4 Where so indicated by the plakeup on the Bid Form, express sums in both words and figures, in case or an crepancy between the two, the written amount shall govern.
- 4.1.5 Interlineation, alterations or erasures must be initialed by the signer of the Bid.
- 4.1.6 BID ALL NEQUESTED ALTERNATES AND UNIT PRICES, IF ANY. If there is no change in the Base Bid for an Alternate, enter "No Change". The Contractor is responsible for verifying that they have received all addenda issued during the bidding period. Work required by Addenda shall automatically become part of the Contract.

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Make no additional stipulations on the Bid Form and do not qualify the Bid in any other manner.

Each copy of the Bid shall include the legal name of the Bidder and a statement whether the Bidder is a sole proprietor, a partnership, a corporation, or any legal entity, and each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current Power of Attorney attached, certifying agent's authority to bind the Bidder.

4.1.9 Bidder shall complete the Non-Collusion Statement form included with the Bid Forms and include it with their Bid.

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- 4.1.10 In the construction of all Public Works projects for the State of Delaware or any agency thereof, preference in employment of laborers, workers or mechanics shall be given to bona fide legal citizens of the State who have established citizenship by residence of at least 90 days in the State.
- 4.1.11 Each bidder shall include in their bid a copy of a valid Delaware Business License.
- 4.1.12 Each bidder shall include signed Affidavit(s) for the Bidder and each listed Subcentrator certifying compliance with OMB Regulation 4104- "Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on "Large Public Vorks Projects." "Large Public Works" is based upon the current threshold required for bidding Public Works as set by the Purchasing and Contracting Advisory Council.

4.2 BID SECURITY

- 4.2.1 All bids shall be accompanied by a deposit of either a groot and sufficient bond to the agency for the benefit of the agency, with corporate surety autorized to do business in this State, the form of the bond and the surety to be approved by the agency, or a security of the bidder assigned to the agency, for a sum equal to a least 10% of the bid plus all add alternates, or in lieu of the bid bond a security deposition the form of a certified check, bank treasurer's check, cashier's check, money oract, or other prior approved secured deposit assigned to the State. The bid bond need not be for a specific sum, but may be stated to be for a sum equal to 10% of the bid plus all add alternates to which it relates and not to exceed a certain stated sum, if said sum is equal to a least 10% of the bid. The Bid Bond form used shall be the standard OMB form (anothed).
- 4.2.2 The Agency has the right to retain the bid security of Bidders to whom an award is being considered until either a formul contract has been executed and bonds have been furnished or the specified time has elap ed so the Bids may be withdrawn or all Bids have been rejected.
- 4.2.3 In the event of any successful Bidder refusing or neglecting to execute a formal contract and bond within 20 day of the awarding of the contract, the bid bond or security deposited by the successful bidder shall be forfeited.
- 4.3 SUBCONTRACTOR LIST
- 4.3.1 As required by <u>Delaware Code</u>, Title 29, section 6962(d)(10)b, each Bidder shall submit with their Bid a completed List of Sub-Contractors included with the Bid Form. NAME ONLY ONE SUBCONTRACTOR FOR EACH TRADE. A Bid will be considered non-responsive unless the completed list is included.



Provide the Name and Address for each listed subcontractor. Addresses by City, Town or Locality, plus State, will be acceptable.

- It is the responsibility of the Contractor to ensure that their Subcontractors are in compliance with the provisions of this law. Also, if a Contractor elects to list themselves as a Subcontractor for any category, they must specifically name themselves on the Bid Form and be able to document their capability to act as Subcontractor in that category in accordance with this law.
- 4.4 EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC WORKS
- 4.4.1 During the performance of this contract, the contractor agrees as follows:

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- A. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color, sexual orientation, gender identity or national origin. The Contractor will take affirmative action to ensure the applicants are employed, and that employees are treated during employment, without regard to their race, creed, sex, color, sexual orientation, gender identity or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion or transfer; recruitment or computent advertising; layoff or termination; rates of pay or other forms of componsation; and selection for training, including apprenticeship. The Contractor agrees o post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting agency setting forth this non-ischalination clause.
- B. The Contractor will, in all solicitations or advertisements for emprovees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to face, cred, sex, color, sexual orientation, gender identity or national origin."

4.5 PREVAILING WAGE REQUIREMENT

- 4.5.1 Wage Provisions: For renovation and new construction projects whose costs exceed the thresholds contained in <u>Delaware Code</u>, Title 29, Section 6960, the minimum wage rates for various classes of laborers and mechanics shall be as determined by the Department of Labor, Division of Industrial Affairs of the state of Delaware.
- 4.5.2 The employer shall pay all mechaniss and labors employed directly upon the site of work, unconditionally and not less orien han once a week and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than these stated in the specifications, regardless of any contractual relationship which may be all ged to exist between the employer and such laborers and mechanics.
- 4.5.3 The scale of the ways to be paid shall be posted by the employer in a prominent and easily accessible place at the site of the work.
- 4.5.4 Every contract based upon these specifications shall contain a stipulation that sworn payroll information, as required by the Department of Labor, be furnished weekly. The Department of Labor shall keep and maintain the sworn payroll information for a period of 6 months from the last day of the work week covered by the payroll.



SUBMISSION OF BIDS

- Enclose the Bid, the Bid Security, and any other documents required to be submitted with the Bid in a sealed opaque envelope. Address the envelope to the party receiving the Bids. Identify with the project name, project number, and the Bidder's name and address. If the Bid is sent by mail, enclose the sealed envelope in a separate mailing envelope with the notation "BID ENCLOSED" on the face thereof. The State is not responsible for the opening of bids prior to bid opening date and time that are not properly marked.
- 4.6.2 Deposit Bids at the designated location prior to the time and date for receipt of bids indicated in the Advertisement for Bids. Bids received after the time and date for receipt of bids will be marked "LATE BID" and returned.

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- 4.6.3 Bidder assumes full responsibility for timely delivery at location designated for receipt of bids.
- 4.6.4 Oral, telephonic or telegraphic bids are invalid and will not receive consideration.
- 4.6.5 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids, provided that they are then fully in compliance with these Instructions to Bidders.
- 4.7 MODIFICATION OR WITHDRAW OF BIDS
- 4.7.1 Prior to the closing date for receipt of Bids, a Bidder may withdraw a Bid by personal request and by showing proper identification to the Architect. A request for withdraw by letter or fax, if the Architect is notified in writing prior to receipt of fax, is acceptable. A fax directing a modification in the bid price will render the Bid informal, causing it to be ineligible for consideration of award. Telephone directives for modification of the bid price shall not be permitted and will have no bearing on the submitted proposation on manner.
- 4.7.2 Bidders submitting Bids that are late shall be notified as soor as practicable and the bid shall be returned.
- 4.7.3 A Bid may not be modified, withdrawn or cauceled by the Bidder during a thirty (30) day period following the time and date designated for the receipt and opening of Bids, and Bidder so agrees in submitting their Bid. Bids shall be binding for 30 days after the date of the Bid opening.

ARTICLE 5: CONSIDERATION OF BIDS

- 5.1 OPENING/REJECTION OF EDS
- 5.1.1 Unless otherwise state, Bids received on time will be publicly opened and will be read aloud. An abstract of the Bids will be made available to Bidders.
- 5.1.2 The Agency shall have the right to reject any and all Bids. A Bid not accompanied by a required Bid Cochity or by other data required by the Bidding Documents, or a Bid which is in any war incomplete or irregular is subject to rejection.
- 5.1.3 If the Birds are rejected, it will be done within thirty (30) calendar day of the Bid opening.
- 5.2 COMPARISON OF BIDS



After the Bids have been opened and read, the bid prices will be compared and the result of such comparisons will be made available to the public. Comparisons of the Bids may be based on the Base Bid plus desired Alternates. The Agency shall have the right to accept Alternates in any order or combination.

- 2.2 The Agency reserves the right to waive technicalities, to reject any or all Bids, or any portion thereof, to advertise for new Bids, to proceed to do the Work otherwise, or to abandon the Work, if in the judgment of the Agency or its agent(s), it is in the best interest of the State.
- 5.2.3 An increase or decrease in the quantity for any item is not sufficient grounds for an increase or decrease in the Unit Price.
- 5.2.4 The prices quoted are to be those for which the material will be furnished F.O.B. Job Site and include all charges that may be imposed during the period of the Contract.

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- 5.2.5 No qualifying letter or statements in or attached to the Bid, or separate discounts will be considered in determining the low Bid except as may be otherwise herein noted. Cash or separate discounts should be computed and incorporated into Unit Bid Price(s).
- 5.3 DISQUALIFICATION OF BIDDERS
- 5.3.1 An agency shall determine that each Bidder on any Public Works Contract is responsible before awarding the Contract. Factors to be considered in determining the responsibility of a Bidder include:
 - A. The Bidder's financial, physical, personnel or other resources including Subcontracts;
 - B. The Bidder's record of performance on past pullic or private construction projects, including, but not limited to, defaults and/or final adjudication or admission of violations of the Prevailing Wage Laws in Delaware or any other state;
 - C. The Bidder's written safety plan;
 - D. Whether the Bidder is qualified legally to contract with the State;
 - E. Whether the Bidder supplied all necessary information concerning its responsibility; and,
 - F. Any other specific cateria for a particular procurement, which an agency may establish; provided powever, that, the criteria be set forth in the Invitation to Bid and is otherwise an conformity with State and/or Federal law.
- 5.3.2 If an agency determines that a Bidder is nonresponsive and/or nonresponsible, the determination shall be in writing and set forth the basis for the determination. A copy of the determination and be sent to the affected Bidder within five (5) working days of said determination.
- 5.3.3 In addition, any one or more of the following causes may be considered as sufficient for the disc alification of a Bidder and the rejection of their Bid or Bids.
- 5.3.3.1 More than one Bid for the same Contract from an individual, firm or corporation under the same or different names.



Evidence of collusion among Bidders.

Unsatisfactory performance record as evidenced by past experience.

- 5.3.3.4 If the Unit Prices are obviously unbalanced either in excess or below reasonable cost analysis values.
- 5.3.3.5 If there are any unauthorized additions, interlineation, conditional or alternate bids or irregularities of any kind which may tend to make the Bid incomplete, indefinite or ambiguous as to its meaning.
- 5.3.3.6 If the Bid is not accompanied by the required Bid Security and other data required by the Bidding Documents.

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- 5.3.3.7 If any exceptions or qualifications of the Bid are noted on the Bid Form.
- 5.4 ACCEPTANCE OF BID AND AWARD OF CONTRACT
- 5.4.1 A formal Contract shall be executed with the successful Bidder within twenty (20) calendar days after the award of the Contract.
- 5.4.2 Per Section 6962(d)(13) a., Title 29, Delaware Code, "The contracting agency shall award any public works contract within thirty (30) days of the bid opening to the lowest responsive and responsible Bidder, unless the Agency elects to award on the basis of best value, in which case the election to award on the basis of best value shall be stated in the Invitation To Bid."
- 5.4.3 Each Bid on any Public Works Contract must be deemed responsive by the Agency to be considered for award. A responsive Bid shall conform in all material respects to the requirements and criteria set forth in the Contract Documents and specifications.
- 5.4.4 The Agency shall have the right to accept Alternates h any order or combination, and to determine the low Bidder on the basis of the surport be base Bid, plus accepted Alternates.
- 5.4.5 The successful Bidder shall execute a formal contract, submit the required Insurance Certificate, and furnish good and sufficient bonds, unless specifically waived in the General Requirements, in accordance with the General Requirement, within twenty (20) days of official notice of contract award. The successful Bidder shall provide two business days prior to contract execution, copies on the Euclipse Drug Testing Program for the Bidder and all listed Subcontractors. Bonds shall be for the benefit of the Agency with surety in the amount of 100% of the total contract award. Said Bonds shall be conditioned upon the faithful performance of the contract Bonds shall remain in affect for period of one year after the date of substantial completion.
- 5.4.6 If the successful bidder fails to execute the required Contract,Bond and all required information, as ofor resid, within twenty (20) calendar days after the date of official Notice of the Award of the Contract, their Bid guaranty shall immediately be taken and become the property of the state for the benefit of the Agency as liquidated damages, and not as a forfeiture of as appenalty. Award will then be made to the next lowest qualified Bidder of the Work or eadvertised, as the Agency may decide.
- 5.4.7



Each bidder shall supply with its bid its taxpayer identification number (i.e., federal employer identification number or social security number) and a copy of its Delaware business license, and should the vendor be awarded a contract, such vendor shall provide to the agency the taxpayer identification license numbers of such subcontractors. Such numbers shall be provided on the later of the date on which such subcontractor is required to be identified or the time the contract is executed. The successful Bidder shall provide to the agency to which it is contracting, within 30 days of entering into such public works contract, copies of all Delaware Business licenses of subcontractors and/or independent contractors that will perform work for such public works contract. However, if a subcontractor or independent contractor schall be provided to the agency within 10 days of being contracted or hired.

5.4.8 The Bid Security shall be returned to the successful Bidder upon the execution of the formal contract. The Bid Securities of unsuccessful bidders shall be returned within thirty (30) calendar days after the opening of the Bids.

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

ARTICLE 6: POST-BID INFORMATION

- 6.1 CONTRACTOR'S QUALIFICATION STATEMENT
- 6.1.1 Bidders to whom award of a Contract is under consideration shall, if requested by the Agency, submit a properly executed AIA Document A305, Contractor's Credification Statement, unless such a statement has been previously required and submitted
- 6.2 BUSINESS DESIGNATION FORM
- 6.2.1 Successful bidder shall be required to accurately complete an Office of Management and Budget Business Designation Form for Subcontractors.

ARTICLE 7: PERFORMANCE BOND AND PAYMENT BOND

- 7.1 BOND REQUIREMENTS
- 7.1.1 The cost of furnishing the required Bonds, that an stipulated in the Bidding Documents, shall be included in the Bid.
- 7.1.2 If the Bidder is required by the Agency to secure a bond from other than the Bidder's usual sources, changes in cost will be adjusted as provide in the Contract Documents.
- 7.1.3 The Performance and Payment band forms used shall be the standard OMB forms (attached).
- 7.2 TIME OF DELIVERY AND FORM OF BONDS
- 7.2.1 The bonds shall be dated on a fiter the date of the Contract.
- 7.2.2 The Bidder and inquire the attorney-in-fact who executes the required bonds on behalf of the surety to affix a certified and current copy of the power of attorney.

ARTICLE 8: FORM OF AGREEMENT BETWEEN AGENCY AND CONTRACTOR

8.1

Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A101, Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment is a Stipulated Sum.

END OF SECTION

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT CAMDEN, DELAWARE

BID FORM

For Bids Due:	(DATE)	To:	Caesar Rodney School District
			7 Front Street, PO Box 188
			Wyoming, DE 19934
Name of Bidder:			
Delaware Business L	icense No.:		Taxpayer ID No.:
(A copy of Bidder's I	Delaware Business License must	t be attached	to this form.)
			$\overline{\mathbf{A}}$
(Other License Nos.)	:		
Phone No.: ())	F	Fax No.: () -
	' <u> </u>	1	
			\mathbf{S}
The undersigned rem	resenting that he has read and u	inderstands th	Bitting Documents and that this bid is made in accordance
therewith that he has	visited the site and has familiariz	ed himse, w	in the local conditions under which the Work is to be performed,
and that his bid is bas	sed upon the materials systems a	and countries	described in the Bidding Documents without exception, hereby
			at, supplies, transport and other facilities required to execute the
	aforesaid documents for the lung		
worn accorded of the		p sum	
\$			
(\$			
ALTERNATES			
Alternata prices conf	form to implifiable project speci	fightion soci	on. Refer to specifications for a complete description of the
			by the crossed out part that does not apply.
Tonowing Atternates.	All abb of DEDUCT allour	in 18 marcated	by the crossed out part that does not appry.
AI TERNATE No. 1.	Add cover board to all EPDM	Poofing Syste	em RS-1 at all areas.
ALTERNATE NO. 1.	Add a lover board to an Er Divis	Rooting Syste	lin KS-1 at an areas.
Add/Deduct:			
	(\$)	N
	(Ψ)	

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT CAMDEN, DELAWARE

BID FORM

I/We acknowledge Addendums numbered ______ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for thirty (30) days from the date of opening of bids (60 days for So ool Districts and Department of Education), and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid.

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within ______calendar days of the Notice to Proceed.

The undersigned represents and warrants that he has complied and shall comple win all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or acception of in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free complexitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder snall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation	
By	ading as
(Individual's / General Partner's / Corporate Itame)	-
(State of Corporation)	
Business Address:	
Witness: By	
(SEAL)	(Authorized Signature)
Date	(Title)

ATTACHMENTS

Sub-Contractor List Non-Collusion Statement Affidavit(s) of Employee Drug Testing Program Bid Security (Others as Required by Project Manuals) FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT CAMDEN, DELAWARE

BID FORM

1

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b <u>Delaware Code</u>, the following sub-contractor listing must accompany the bid submittal. The name and address of the subcontractor **must be listed for each category** where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the *Owner*, **it is required that bidders list themselves as being the sub-contractor for all category energy have a signed and intends to perform such work.** This form must be filled out completely with no additions or deletions. Note that all subcontractors listed below must have a signed Affidavit of Employee Drug Testing Program included with this bid.

<u>Subcon</u>	tractor Category	Subcontractor	<u>Address (City & State)</u>	Subcontractors tax payer ID # or Delaware Business license #
1.	Roofing		<u>`</u>	
2.	Mechanical			
3.	Plumbing	G		
4.	Electrical			
5.	Caulking	O`		
6.	Lightning Protection	X		
7.				
8.	•	4		

FRED FIFTER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT CAMDEN, DELAWARE

BID FORM

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proport submitted this date (to the Office of Management and Budget, Division of Facilities Management).

All the terms and conditions of (*Project or Contract Number*) have been thoroughly examined and are uncerstood.

NAME OF BIDDER:		
AUTHORIZED REPRESENTATIVE (TYPED):		
AUTHORIZED REPRESENTATIVE (SIGNATURE):		
TITLE:		
ADDRESS OF BIDDER:		
E-MAIL:		
PHONE NUMBER:		
Sworn to and Subscribed before me this	day of	20
My Commission expires	. NOTARY PUBLIC	
4		

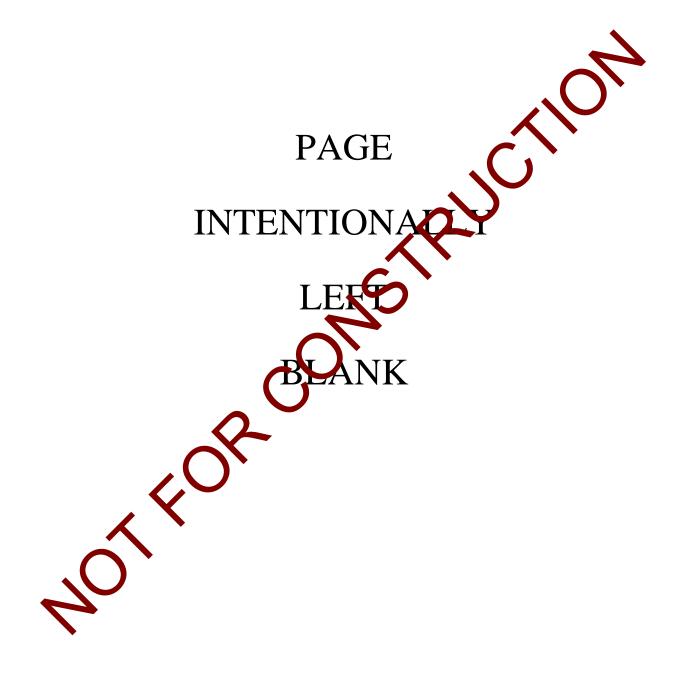
THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

AFFIDAVIT OF EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite that complies with this regulation:

Contractor/Subcontractor Name:	, O `_
Contractor/Subcontractor Address:	
Authorized Representative (typed or printed):	
Authorized Representative (signature):	
Title:	
	2
Sworn to and Subscribed before me this	day of 20
My Commission expires	. NOTARY PUBLIC
	$\mathbf{\vee}$
	•
THIS PAGE MOST BE DIGNED A	AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.
\mathbf{O}	
~~	



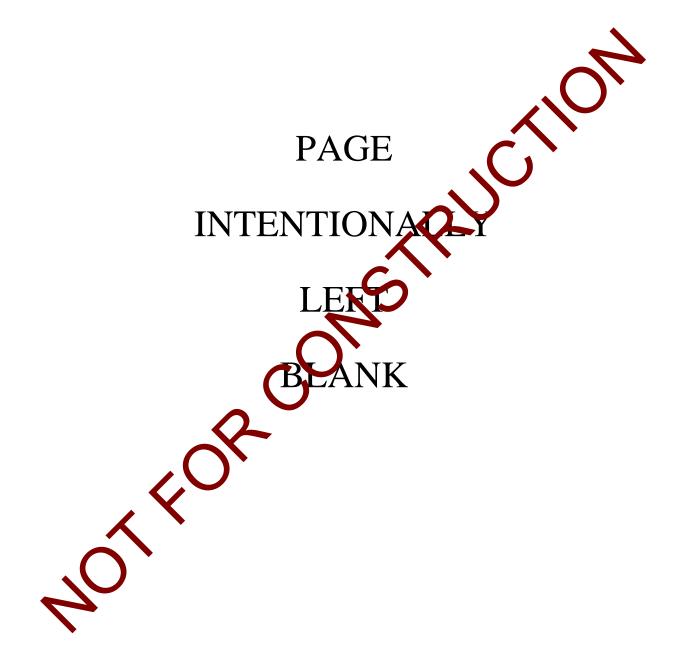
STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

BID BOND

TO ACCOMPANY PROPOSAL (Not necessary if security is used)

	BY THESE PRESENTS			
and State of	as Principa	al, and of		in the County of
	nd State ofas Sure			
("State"), are held and firm	ly unto the State in the s	um of	Dolla	\$ (\$), or
10% percent not to exceed		Dollars (\$) of amount	or bid on Contract No.
, to be paid	to the State for the use a	and benefit of	State	of Delaware Office of
Management and Budget fo				
heirs, executors, administrat	ors, and successors, joint	ly and severally for a	nd in the whole fi	rmly by these presents.
				· · · · · · ·
NOW THE COND	ITION OF THIS OBLIG.	ATION IS SUCH 15	above bou	inden Principal who has
submitted to the	Sta	te of Delaware Offic	Nanagemer	it and Budget a certain
proposal to enter into this c				
awarded this Contract, and				
required by the terms of thi				
Office of Management and				
notice of the award thereof		rm of said proposal,	then this obligation	on shall be void or else
to be and remain in full for	ce and virtue.			
Social with	and and divid	day of	in th	e year of our Lord two
Sealed with			in th	e year of our Lord two
thousand and	(20_).			
SEALED, AND DELIVER				
	to ency of			
	U UIU UI	Name of Bid	der (Organizatior))
, Χ		Ivallie of Did		1)
Corporate Seal	By:			
Corporate boar		Authorize	d Signature	
Attest		7 Idillo1120	a bigilatare	
These	·	Title		
\sim		1110		
		Name o	of Surety	
Witness:	By:			
		Titl	e	



SECTION 00 52 13

STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

The Standard Form of Agreement Between Owner and Contractor is as stated in the American Decitive of Architects Document AIA A101 (2007 Edition) entitled <u>Standard Form of Agreement Between Owner and</u> <u>Contractor</u> and is part of this project manual as if herein written in full.

Copies of the Document are available through the A/E.

A draft copy of this document is included herein as follows.

²СС



MAIA° Document A101[™] – 2007

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

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

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

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

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

test

The Architect: (Name, legal status, address and on mon nation)

ADDITIONS AND DELETIONS: The author of ent has tion needed for its added infe completion. The author may also have revised the text of the original A standard form, An Additions and letions Report that notes added information as well as revisions to the tandard form text is available from e author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

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

AIA Document A201[™]-2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

The Owner and Convactor agree as follows.

1

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TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
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- CONTRACT SUM 4
- PAYMENTS 5
- **DISPUTE RESOLUTION** 6
- **TERMINATION OR SUSPENSION** 7
- **MISCELLANEOUS PROVISIONS** 8
- **ENUMERATION OF CONTRACT DOCUMENTS** 9
- INSURANCE AND BONDS 10

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of no Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supervises prior negotiations, representations or agreements es prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

JUTIC

ARTICLE 2 THE WORK OF THIS CONTRACT

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

DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION ARTICLE 3

§ 3.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the outer to be fixed in a notice to proceed issued by the Owner. (Insert the date of commencement if t differs from the date of this Agreement or, if applicable, state that the date will be fixed in a notice to rocard.)

If, prior to are commencement of the Work, the Owner requires time to file mortgages and other security interests, the Owner's time requirement shall be as follows:

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

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than () days from the date of commencement, or as follows:

(Insert number of calendar days. Alternatively, a calendar date may be used when coordinated with the date of commencement. If appropriate, insert requirements for earlier Substantial Completion of certain portions of the Work.)

1

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Portion of Work

Substantial Completion Date

, subject to adjustments of this Contract Time as provided in the Contract Documents. (Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance e of me Contract. The Contract Sum shall be (\$), subject to additions and deductions as provided in the contract Documents.

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in Contract Documents and are hereby accepted by the Owner:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attached schedule of such other alternates showing the amount for each and the date when that amount expires,

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

Item

Units and Limital ons

Price Per Unit (\$0.00)

§ 4.4 Allowances included in the Contract Sum, if my: (Identify allowance and state exclusions, if any, fi m the llowance price.)

Item

ARTICLE 5 PAYMENTS § 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

Price

Covered by each Application for Payment shall be one calendar month ending on the last day of the § 5.1.2 The peri month, or as follow

wided that a valid Application for Payment is received by the Architect that meets all requirements of the contract, payment shall be made by the Owner not later than (Paragraphs deleted)

30 days after the Owner receives the valid Application for Payment.

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

1

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- Take that portion of the Contract Sum properly allocable to completed Work as determined by .1 multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of percent (%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201[™]-2007, General Conditions of the Contract for Construction;
- Add that portion of the Contract Sum properly allocable to materials and equipment delivered and .2 suitably stored at the site for subsequent incorporation in the completed construction (9, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing) less reminage of percent (%);
- Subtract the aggregate of previous payments made by the Owner; and .3
- Subtract amounts, if any, for which the Architect has withheld or nullified a cate for Payment as Certi .4 provided in Section 9.5 of AIA Document A201-2007.

§ 5.1.7 The progress payment amount determined in accordance with Section 5.1.6 shall be further modified under the following circumstances:

- Add, upon Substantial Completion of the Work, a sum sufficient to mease the total payments to the .1 full amount of the Contract Sum, less such amounts as the treatment shall determine for incomplete Work, retainage applicable to such work and unsettled slaims, and (Section 9.8.5 of AIA Document A201-2007 requires release of applicable retainage upon Substantial Completion of Work with consent of surety, if any.)
- Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, .2 any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201-2007.

s follows: § 5.1.8 Reduction or limitation of retainage, if any, manne

(If it is intended, prior to Substantial Completion of the entre Work, to reduce or limit the retainage resulting from the percentages inserted in Sections 5.1.6.1 and 57.6.2 where, and this is not explained elsewhere in the Contract Documents, insert here provisions for such reduction or limitation.)

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 FINAL PAYMENT

.1

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

the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Kork as provided in Section 12.2.2 of AIA Document A201–2007, and to satisfy other requirements, if , which extend beyond final payment; and an

inal Certificate for Payment has been issued by the Architect.

The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the § 5.2 Architert's final Certificate for Payment, or as follows:

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 INITIAL DECISION MAKER

The Architect will serve as Initial Decision Maker pursuant to Section 15.2 of AIA Document A201-2007, unless the parties appoint below another individual, not a party to this Agreement, to serve as Initial Decision Maker.

Init.

(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

§ 6.2 BINDING DISPUTE RESOLUTION

For any Claim subject to, but not resolved by, mediation pursuant to Section 15.3 of AIA Document A201-2007, the method of binding dispute resolution shall be as follows:

(Check the appropriate box. If the Owner and Contractor do not select a method of binding dispute resolution berow, or do not subsequently agree in writing to a binding dispute resolution method other than litigation W U be Clain resolved by litigation in a court of competent jurisdiction.)

- Arbitration pursuant to Section 15.4 of AIA Document A201-2007 []
- Litigation in a court of competent jurisdiction []
- [X] Other (Specify)

Any remedies available in law or in equity.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201-2007.

§ 7.2 The Work may be suspended by the Owner as provided a Aracle 14 of AIA Document A201–2007.

MISCELLANEOUS PROVISIONS **ARTICLE 8**

§ 8.1 Where reference is made in this Agreement a provision of AIA Document A201–2007 or another Contract Document, the reference refers to that provision as accorded or supplemented by other provisions of the Contract Documents.

§ 8.2 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the logal rate prevailing from time to time at the place where the Project is located. (Insert rate of interest agreed n n any.)

Payments are due 30 days fter eccept of a valid Application for Payment. After that 30 day period, interest may be charged at the rate of 1% per month not to exceed 12% per annum

§ 8.3 The Owner's representative: (Name, address and other information)



§ 8.4 The Contractor's representative: (Name, address and other information)

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§ 8.5 The Contractor's representative shall not be changed without ten days written notice to the Owner...

§ 8.6 Other provisions:

ENUMERATION OF CONTRACT DOCUMENTS ARTICLE 9

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enul erated in the sections below.

§ 9.1.1 The Agreement is this executed AIA Document A101-2007, Standard Form of Agreement Owner and Contractor.

§ 9.1.2 The General Conditions are AIA Document A201–2007, General Conditions of the Contract for Construction.

§ 9.1.3 The Supplementary and other Conditions of the Contract:



Portions Add relating to bidding requirements are not part of the Contract Documents unless the bidding ats are also enumerated in this Article 9. requirem

tional documents, if any, forming part of the Contract Documents:

AIA Document E201TM–2007, Digital Data Protocol Exhibit, if completed by the parties, or the following:

.2 Other documents, if any, listed below: (List here any additional documents that are intended to form part of the Contract Documents. 41.4 Document A201–2007 provides that bidding requirements such as advertisement or invitation to bid, Instructions to Bidders, sample forms and the Contractor's bid are not part of the Contract Documents

Init.

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unless enumerated in this Agreement. They should be listed here only if intended to be part of the Contract Documents.)

INSURANCE AND BONDS ARTICLE 10

The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201-2007.

(State bonding requirements, if any, and limits of liability for insurance required in Article 11 of AIA Document A201-2007.)

8-05

Type of insurance or bond

Limit of liability or bond amount (\$0.00)

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

OWNER (Signature)

CONTRACTOR (Signatu

(Printed name and title)

(Printed p

1

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

PERFORMANCE BOND

Bond Number: _____

20

KNOW ALL PERSONS BY THESE PRESENTS, that we, ______, as pracipal ("**Principal**"), and ______, a ______ corporation, legally activated to do business in the State of Delaware, as surety ("**Surety**"), are held and firmly bound unto the office of Management and Budget/Division of Facilities Management ("**Owner**"), in the amount of ______(\$_____), to be paid to **Owner**, for which payment well and held we be made, we do bind ourselves, our and each and every of our heirs, executors, administrations successes and assigns, jointly and severally, for and in the whole, firmly by these presents.

Sealed with our seals and dated this _____ day of _____

NOW THE CONDITION OF THIS OBLIGATION IS SUCH, that *i* **Trinsing**, who has been awarded by **Owner** that certain contract known as Contract No. ______dated the ______ day of _____, 20___ (the "Contract"), which Contract is incorrerated erein by reference, shall well and truly provide and furnish all materials, appliances and tools and performell the work required under and pursuant to the terms and conditions of the Contract and the Contract Desuments (as defined in the Contract) or any changes or modifications thereto made as therein provided, shall make good and reimburse **Owner** sufficient funds to pay the costs of completing the Contract the **Owner** may sustain by reason of any failure or default on the part of **Principal**, and shall also indemnify an leav harmless **Owner** from all costs, damages and expenses arising out of or by reason of the performance of the Contract and for as long as provided by the Contract; then this obligation shall be void, otherwise to be and remain in full force and effect.

Surety, for value received, hereby stipulates and agrees, if requested to do so by **Owner**, to fully perform and complete the work to be performed u der the Contract pursuant to the terms, conditions and covenants thereof, if for any cause **Principal** fails or regreates to so fully perform and complete such work.

Surety, for value received for iself and its successors and assigns, hereby stipulates and agrees that the obligation of **Surety** and its bond shall be in no way impaired or affected by any extension of time, modification, omission addition or change in or to the Contract or the work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provisions thereof, or by any assignment, sublecting or other transfer thereof or of any work to be performed or any monies due or to become due thereander and **Surety** hereby waives notice of any and all such extensions, modifications, omissions, addition, chanles, payments, waivers, assignments, subcontracts and transfers and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, subcontractors, and other transferees shall have the same effect as to **Surety** as though done or omitted to be done by or in relation to **Principal**.

Surety hereby stipulates and agrees that no modifications, omissions or additions in or to the terms of the Contract shall in any way whatsoever affect the obligation of **Surety** and its bond.

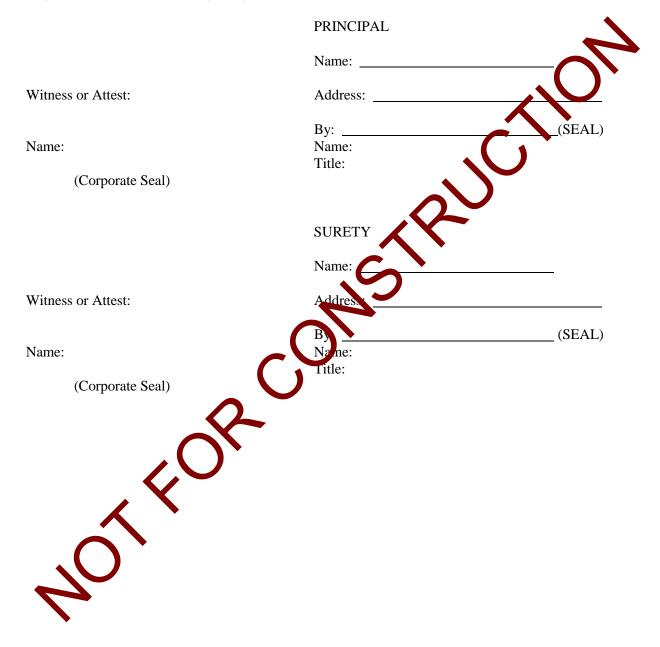
Any proceeding, legal or equitable, under this Bond may be brought in any court of competent jurisdiction in the State of Delaware. Notices to **Surety** or Contractor may be mailed or delivered to them at their respective addresses shown below.

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

IN WITNESS WHEREOF, **Principal** and **Surety** have hereunto set their hand and seals, and such of them as are corporations have caused their corporate seal to be hereto affixed and these presents to be signed by their duly authorized officers, the day and year first above written.



PAYMENT BOND

Bond Number: _____

KNOW ALL PERSONS BY THESE PRESENTS, that we, ______, as pracipal ("**Principal**"), and ______, a _____ corporation, legally authorized hado business in the State of Delaware, as surety ("**Surety**"), are held and firmly bound unto the office of Management and Budget/Division of Facilities Management ("**Owner**"), in the amount of ______(\$_____), to be paid to **Owner**, for which payment well and helyto bornade, we do bind ourselves, our and each and every of our heirs, executors, administrations, becessers and assigns, jointly and severally, for and in the whole firmly by these presents.

Sealed with our seals and dated this _____ day of _____

NOW THE CONDITION OF THIS OBLIGATION IS SUCH, that is **Principal**, who has been awarded by **Owner** that certain contract known as Contract No. ______ dated the ______ day of ______, 20__ (the "Contract"), which Contract is incorporated herein by reference, shall well and truly pay all and every person furnishing materials or performing labor or service in and about the performance of the work under the Contract, all and every sums of morey due him, her, them or any of them, for all such materials, labor and service for which **Principal** is liable, shall hake good and reimburse **Owner** sufficient funds to pay such costs in the completion of the Contract so **Owner** may sustain by reason of any failure or default on the part of **Principal**, and shall also indemnify and save harmless **Owner** from all costs, damages and expenses arising out of or by reason of the berformance of the Contract and for as long as provided by the Contract; then this obligation shall be void otherwise to be and remain in full force and effect.

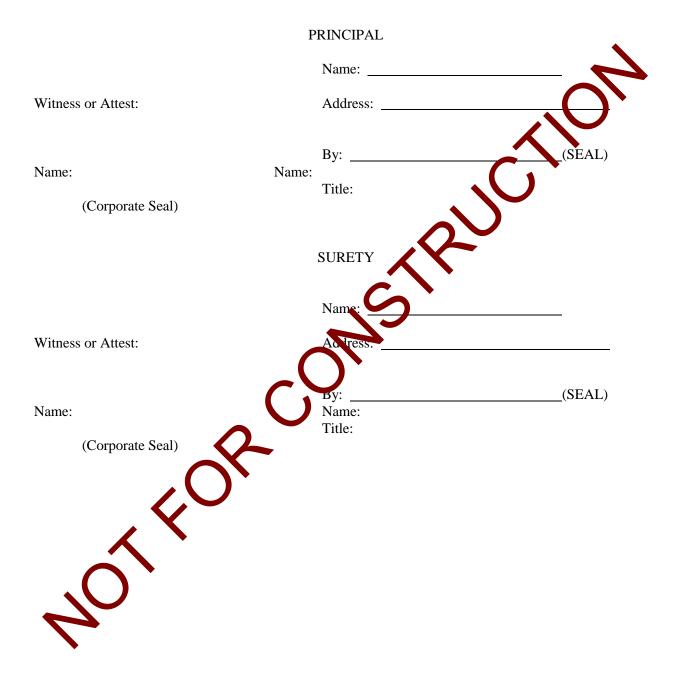
Surety, for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of **Surety** and its board shall be in no way impaired or affected by any extension of time, modification, omission, addition or enauge in or to the Contract or the work to be performed thereunder, or by any payment thereunder before he ime required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any work to be performed or any monies due or to become due thereunder; and **Surety** and **Surety** assignments, subcontracts and transfers and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, subcontractors, and other transferes shall have the same effect as to **Surety** as though done or omitted to be done by or in relation to **Pracipa**.

Surety hereby stipulates and agrees that no modifications, omission or additions in or to the terms of the Contract hall in any way whatsoever affect the obligation of **Surety** and its bond.

Any proceeding, legal or equitable, under this Bond may be brought in any court of competent jurisdiction in the State of Delaware. Notices to **Surety** or Contractor may be mailed or delivered to them at their respective addresses shown below.

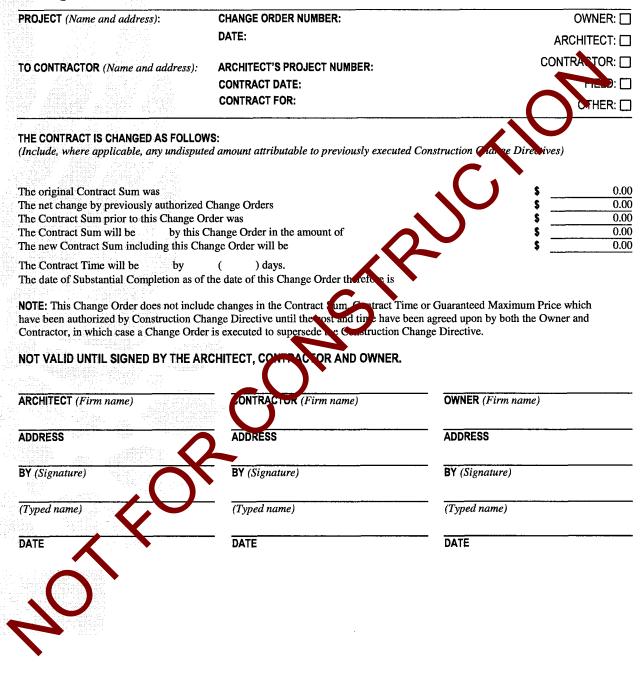
FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

IN WITNESS WHEREOF, **Principal** and **Surety** have hereunto set their hand and seals, and such of them as are corporations have caused their corporate seal to be hereto affixed and these presents to be signed by their duly authorized officers, the day and year first above written.



. Margin Ar Document G701[™] – 2001

Change Order



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$\operatorname{AIA}^{\circ}$ Document G702^{M} – 1992

TO OWNER:	PROJECT:	APPLICATION NO:	Distribution to: OWNER:
		PERIOD TO: CONTRACTION:	
ROM	VIA	CONTRACT DATE:	
CONTRACTOR:	ARCHITECT:	PRO/ECT NOS: /	1
			, FIELD:
CONTRACTOR'S APPLICATIO	ON FOR PAYMENT	The undersigned Contractor certifies that to the	best of the Contractor's knowledge, information
Application is made for payment, as shown b	below, in connection with the Contract.	with the Contract Decuments, that all amounts	n for Payment has been completed in accordance have been paid by the Contractor for Work for
Continuation Sheet, AIA Document G703, is		which previous Certificates for Payment were is	sued and payments received from the Owner, and
. ORIGINAL CONTRACT SUM		that carry of payment shown herein is now due.	
2. Net change by Change Orders		CONTRACTOR:	
CONTRACT SUM TO DATE (Line 1 ± 2)		R_	Date:
. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$	State of	
S. RETAINAGE:		unty of:	
a. $\%$ of Completed Work	*	Subscribed and sworn to before me this day of	
(Column D + E on G703) b. % of Stored Material	\$	me uns day or	
(Column F on G703)	\$	Notary Public:	
Total Retainage (Lines 5a + 5b or Total in	n Column I of G703) \$	My Commission expires:	
. TOTAL EARNED LESS RETAINAGE		ARCHITECT'S CERTIFICATE FO	R PAYMENT
(Line 4 Less Line 5 Total)	· · · · · · · · · · · · · · · · · · ·	In accordance with the Contract Documents, base	ed on on-site observations and the data comprising
. LESS PREVIOUS CERTIFICATES FOR PAYM	MENT \$	this application, the Architect certifies to the Ow	mer that to the best of the Architect's knowledge, sed as indicated, the quality of the Work is in
(Line 6 from prior Certificate)		accordance with the Contract Documents, and	d the Contractor is entitled to payment of the
B. CURRENT PAYMENT DUE		AMOUNT CERTIFIED.	
9. BALANCE TO FINISH, INCLUDING RETAINA	AGE	AMOUNT CERTIFIED	
(Line 3 less Line 6)	\$	(Attach explanation if amount certified differs fro Application and on the Continuation Sheet that a	om the amount applied. Initial all figures on this are changed to conform with the amount certified.)
CHANGE ORDER SUMMARY	ADDITIONS DEDUCTION		
Total changes approved in previous muths t		By:	Date:
Total approved this Month	\$ \$ TALS \$ \$	This Certificate is not negotiable. The AMOUN	T CERTIFIED is payable only to the Contractor
		named herein. Issuance, payment and acceptance the Owner or Contractor under this Contract	e of payment are without prejudice to any rights of

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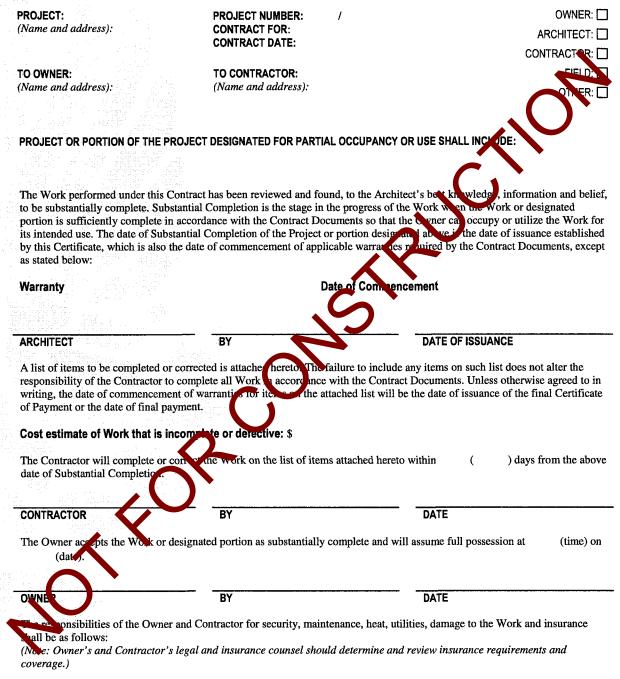
▲AIA[®] Document G703[™] – 1992

Continuation Sheet AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, **APPLICATION N** containing Contractor's signed certification is attached. APPLICATION D In tabulations below, amounts are stated to the nearest dollar. Use Column I on Contracts where variable retainage for line items may apply. ECT'S PROJECT NO: RCH С Ε F G Η I Α В D WORK COMPLETED **DTAI** MATERIALS **IPLETED** BALANCE TO RETAINAGE FROM C PRESENTL SCHEDULED % ITEM AND STORED DESCRIPTION OF WORK FINISH (IF VARIABLE PREVIOUS NO. VALUE THIS PERIOD STORED $(G \div C)$ **O** DATE (C - G) RATE) APPLICATION IN D OR E (D+E+F)(D + E)\$ S \$ \$ \$ \$ \$ GRAND TOTAL

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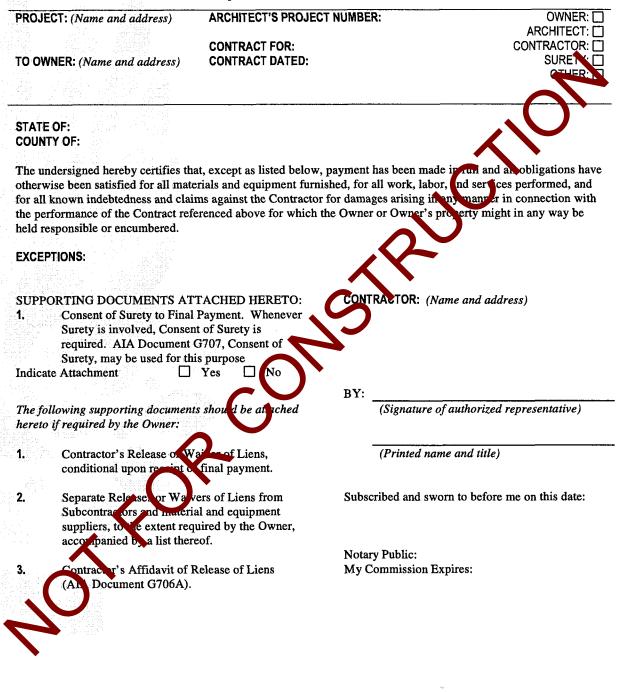
Certificate of Substantial Completion



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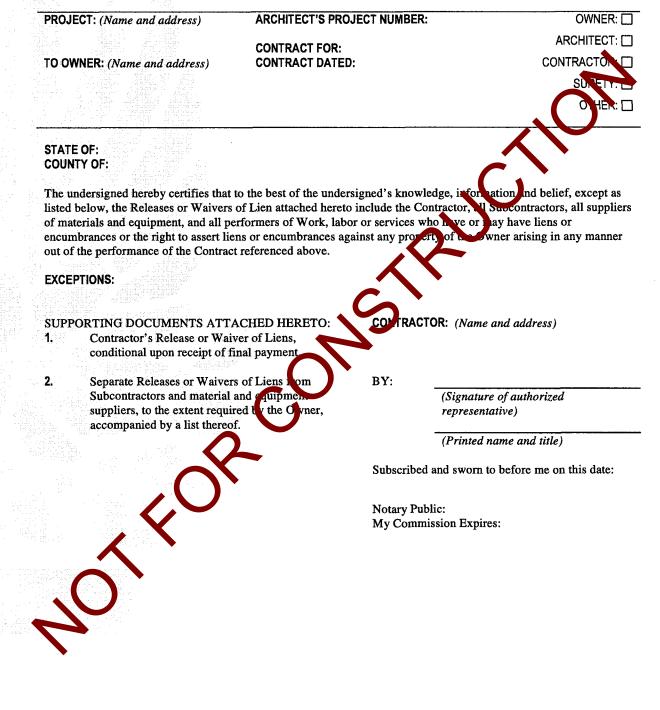
Contractor's Affidavit of Payment of Debts and Claims



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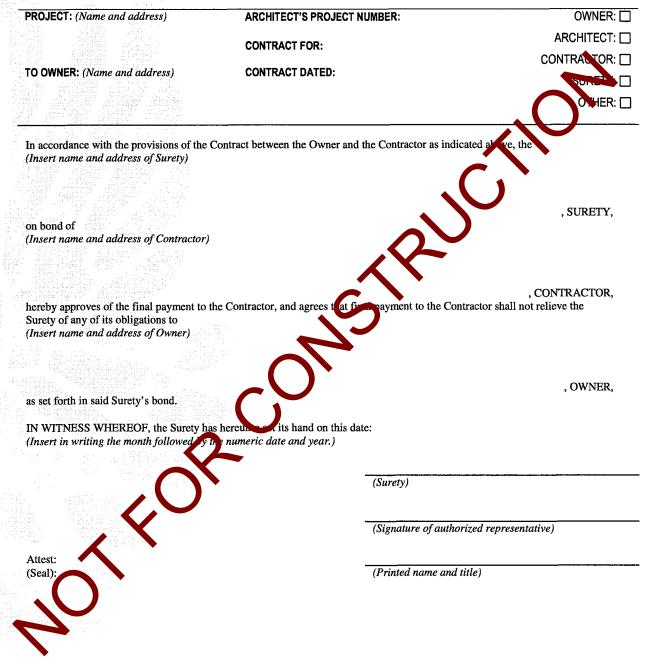
Contractor's Affidavit of Release of Liens



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${\ensuremath{\overline{\mathbb{B}}}} AIA^{\circ}$ Document G707^{${\ensuremath{\mathbb{T}}}$} – 1994

Consent Of Surety to Final Payment



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${\ensuremath{\overline{\mathbb{B}}}} AIA^{\circ}$ Document G710^{${\circ}$} – 1992

Architect's Supplemental Instructions

PROJECT (Name and address):

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO: OWNER:

NT: 🗂

THER:

1

ARCHITECT:

CONSULTA

CONT

OWNER (Name and address):

DATE OF ISSUANCE:

CONTRACT FOR:

CONTRACT DATE:

FROM ARCHITECT (Name and address):

ARCHITECT'S PROJECT NUMBER:

TO CONTRACTOR (Name and address):

The Work shall be carried out in accordance with the following surplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledg neutrine there will be no change in the Contract Sum or Contract Time.

DESCRIPTION:

ATTACHMENTS:

(Here insert listing of documents that support description.)



(Signature)

(Printed name and title)

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MAIA® Document G714[™] – 2001

Construction Change Directive

PROJECT: (Name and address)	DIRECTIVE NUMBER: DATE:	
	CONTRACT FOR:	
TO CONTRACTOR: (Name and address)	CONTRACT DATED: ARCHITECT'S PROJECT NUMBER:	
	ARCHITECT S PRODECT NUMBER.	
You are hereby directed to make the follo	owing change(s) in this Contract.	
(Describe briefly any proposed changes	or list any attached information in the	e alternative)
		\mathbf{N}
PROPOSED ADJUSTMENTS		
1. The proposed basis of adjustme Lump Sum of \$	nt to the Contract Sum or Guaraneea	waimum Price is:
•Unit Price of \$ per	r i i i i i i i i i i i i i i i i i i i	
• As provided in Section 7	.3.3 of AIA Document 1201 1997	
- As follows:		
2. The Contract Time is proposed	to . The proposed adjustment, in	f any, is .
When signed by the Owner and Architect and	received by the Contractor, this	Contractor signature indicates agreement with
document becomes effective IMMEDIATEL (CCD), and the Contractor shall proceed with	Y as a Construction Change Directive	the proposed adjustments in Contract Sum and Contract Time set forth in this CCD.
		Contract Time Set forth in and CCD.
ARCHITECT (Firm name)	WNER (Firm name)	CONTRACTOR (Firm name)
	ADDD000	
ADDRESS	ADDRESS	ADDRESS
BY (Signature)	BY (Signature)	BY (Signature)
(Typedename)	(Typed name)	(Typed name)
	DATE	DATE

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▲IA[°] Document G715[™] – 1991

Supplemental Attachment for ACORD Certificate of Insurance 25-S

(This document replaces AIA Document G705, Certificate of Insurance.)

PROJECT (Name and address):

61 14	General Liability	Yes	No	N//
	1. Does the General Aggregate apply to this Project only?			
	2. Does this policy include coverage for:		•	
	a. Premises - Operations?			
	b. Explosion, Collapse and Underground Hazards?			
	c. Personal Injury Coverage?			C
	d. Products Coverage?			C
	e. Completed Operations?			
	f. Contractual Coverage for the Insured's obligations in A264?			С
	3. If coverage is written on a claims-made basis, what is the:			
16	a. Retroactive Date?			
	b. Extended Reporting Date?			
•, , ,	Worker's Compensation			
	1. If the Insured is exempt from Worker's Compensation statutes, does the Insured	_	_	_
	carry the equivalent Voluntary Compensation converse?	Ш	Ш	L
•	Final Payment Information 1. Is this certificate being furnished in connection with the Contractor's request for			
	final payment in accordance with the requirements of Sections 9.10.2 and 11.1.3 of			
	AIA Document A201, General Conditions of the Contract for Construction?			Г
	2. If so, and if the policy period ex ends by yond termination of the Contract for	<u> </u>		-
	Construction, is Completed Operations coverage for this Project continued for the			
	balance of the policy portoc			
•	Termination Provisions			
2	1. Has each policy shows on the certificate and this Supplement been endorsed to			
	provide the hole or with 30 days notice of cancellation and/or expiration? List below any policier which do not contain this notice.			Г
	Other Provisions		L	۴
•				

Date of Issue

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FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

SECTION 00 72 13

GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

The General Conditions of this Contract are as stated in the American Institute of Architects Doctment JA A201 (2007 Edition) entitled <u>General Conditions of the Contract for Construction</u> and is part of the project manual as if herein written in full.

2-CO[×]

SR

Copies of the Document are available through the Owner.

A draft copy of this document is included herein as follows

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AIA Document A201[™] – 2007

General Conditions of the Contract for Construction

for the following PROJECT: (Name and location or address)

THE OWNER: (Name, legal status and address)

THE ARCHITECT: (Name, legal status and address)

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- 3 CONTRACTOR
- ARCHITECT A
- SUBCONTRACTORS 5
- BY SEPARATE CONTRACTORS 6 CONSTRUCTION BY OWNED
- CHANGES IN THE WOR 7
- 8 TIME
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- 11 ISURATICE AND BONDS
 - COVERING AND CORRECTION OF WORK
- **MISCELLANEOUS PROVISIONS** 13
- 14 **TERMINATION OR SUSPENSION OF THE CONTRACT**
- 15 CLAIMS AND DISPUTES

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

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ARTICLE 1 GENERAL PROVISIONS § 1.1 BASIC DEFINITIONS § 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other oposa. information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposals and the contractor's bid or proposals and the contractor's bid or proposals and the contractor bids of or portions of Addenda relating to bidding requirements.

§ 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and the ated agreement between the parties hereto and supersedes prior negotiations, representations or agreements either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (2) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities ther than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 THE WORK

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

§ 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the wher and by separate contractors.

§ 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

§ 1.1.6 THE SPECIFICATIONS

The Specifications are that pertion of the Contract Documents consisting of the written requirements for materials, equipment, systems, stap and yorkmanship for the Work, and performance of related services.

§ 1.1.7 INSTRUMENTS OF SERVICE

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

INITIAL DECISION MAKER

The nitial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

§ 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

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§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any rticles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in nother is not intended to affect the interpretation of either statement.

§ 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS **F** SERVICE

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

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solary and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright nonce, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols gov rning such transmissions, unless otherwise already provided in the Agreement or the Contract Documeras.

ARTICLE 2 OWNER

§ 2.1 GENERAL

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§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in humber. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's autorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such ether shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or the

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portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents hith reasonable promptness. The Owner shall also furnish any other information or services under the Owner ontrol and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 Unless otherwise provided in the Contract Documents, the Owner shall furrish o the contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.

§ 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requi contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of writter notice from the Owner to commence and continue correction of such default or neglect with diligence and prompt less, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case a appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architec s additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner

ARTICLE 3 CONTRAC

§ 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Decuments as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authorize to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the acto, or the Contractor's authorized representative.

§ 3.1.7 he Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

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§ 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless therwise specifically provided in the Contract Documents.

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

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of charifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable aws, sudutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 SUPERVISION AND CONSTRUCTION PROCED

§ 3.3.1 The Contractor shall supervise and drect the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and avecontrol over, construction means, methods, techniques, sequences and procedures and for coordinating an ortions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning the matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated ielow, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures if the Contractor determines that such means, methods, techniques, sequences or procedures may not be afer the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

Sonractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, § 3.3.2 The tors and their agents and employees, and other persons or entities performing portions of the Work for, or on be alf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 LABOR AND MATERIALS

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

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

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

§ 3.5 WARRANTY

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract wa of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, we equipment not conforming to these requirements may be considered defective. The Contractor's warranty exclude remany for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.6 TAXES

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The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yes effective or merely scheduled to go into effect.

§ 3.7 PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS

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

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public autoprices applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of paper authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attribute correction.

§ 3.7.4 Concealed or Unknown Conditions. If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical and it ons of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as incerent in construction activities of the character provided for in the Contract Documents, the Contractor shall comptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 2 have after first observance of the conditions. The Architect will promptly investigate such conditions and, if the architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are sternly different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party dispute the Architect's determination or recommendation, that party may proceed as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

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§ 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- Allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and .1 all required taxes, less applicable trade discounts;
- Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and .2 other expenses contemplated for stated allowance amounts shall be included in the Contract Sumbut not in the allowances; and
- Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted a condingly .3 by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs and ation 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if giver to be Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed supering and ent. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to the proposed superintendent or (2) that the Architect requires additional time to review. Failure of the Architect to reply within the 14 day period shall constitute notice of no reasonable dijection.

§ 3.9.3 The Contractor shall not employ a proposer sup rimendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or acraye

§ 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a Contract, substruction schedule for the Work. The schedule shall not exceed time limits current under the Contract Document, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor Scall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to raintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum of extension of Contract Time based on the time required for review of submittals.

Q.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the § 3. Owner and Architect.

§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

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§ 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their p rpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittane upon which the Architect is not expected to take responsive action may be so identified in the Contract Decements. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, upp ove and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no aela) in the Work or in the activities of the Owner or of separate contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of me Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples r similar submittals until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from regain ments of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples & signifur submittals unless the Contractor has specifically informed the Architect in writing of such deviation at inclusion of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.

Contractor shall not be required to provide professional services that constitute the practice of § 3.12.19 T or engineering unless such services are specifically required by the Contract Documents for a portion of ar the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and

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completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

§ 3.13 USE OF SITE

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

§ 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the lork o to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the ondition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documer as

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise steing such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

§ 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contracted

§ 3.16 ACCESS TO WORK

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

§ 3.17 ROYALTIES, PATENT AND COPYRIGHTS

The Contractor shall payall rogattice and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent in ht and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers in equired by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the equired design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

MINIFICATION

§ 3.7 To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they 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 obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

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§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect the Agreement and is referred to throughout the Contract Documents as if singular in number.

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

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a successor architect as to whom the Contractor has no reasonable objection and whose status under the Contract Document shall be that of the Architect.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the small Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a marner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction yeans, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, excepted provided in Section 3.3.1.

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

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized the twner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the sector of the sect Communications by and with separate contractors shall be through the Owner.

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

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which he hem is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and my authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related doctmente required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Continent for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.

§ 4.2.11 The Architect will interpret and decide marcers currorning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limit agreed up n or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Ashievet will be consistent with the intent of, and reasonably inferable from, the Contract Documents and with the in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeaver to super faithful performance by both Owner and Contractor, will not show partiality to either and will not be light for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's recisions of matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contrast Documents.

§ 4.2.14 The Ary ttect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable pronotness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

SUBCONTRACTORS

§ 5.1 DEFINITIONS

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§ 5.1.1 Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to any such proposed person or entity or (2) that the Architect requires additional time for review. Failure of the Owner or Architect to reply within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Convactor, Contractor shall propose another to whom the Owner or Architect has no reasonable objection if the preosed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted prompty and esponsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 SUBCONTRACTUAL RELATIONS

By appropriate agreement, written where legally required for vandity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be blund to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcentractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, rem dies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Storybcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the executive of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make opies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 CONTINGELT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that asignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the abcontractor and Contractor in writing; and

> assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the

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Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS ARTICLE 6

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS § 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or open tions on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor wherevech les ach separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own force and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the O er performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

§ 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance or beir activities, and shall connect and coordinate the Contractor's construction and operations with their as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor Scall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies of defects in such other construction that would render it unsuitable for such proper execution and results. Failur of an Contractor so to report shall constitute an acknowledgment that the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Contractor Shall reimburse the Owner for costs the Owner incurs that are payable to a separate contractor because of the Contractor delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.

§ 6.2. The Owner and each separate contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

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ARTICLE 7 CHANGES IN THE WORK

§ 7.1 GENERAL

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.2 CHANGE ORDERS

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§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, many, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting or additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the contract Documents or subsequently agreed upon;
- .3 Cost to be determined hear manner agreed upon by the parties and a mutually acceptable fixed or percentage feer or
- 4 As provided in Section 7.3.7.

§ 7.3.4 If unit prices are sated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such and prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 7.3.5 connectipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the With the intervention of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.6 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.7 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount

for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

- Costs of labor, including social security, old age and unemployment insurance, fringe benefits required .1 by agreement or custom, and workers' compensation insurance;
- Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or .2 consumed:
- Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor .3 or others:
- Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to .4 Work; and
- Additional costs of supervision and field office personnel directly attributable to the change .5

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or charge hat its in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to me Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification to payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assering Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination n ade by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architer where pare a Change Order. Change Orders may be issued for all or any part of a Construction Change Direct

§ 7.4 MINOR CHANGES IN THE WORK

The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the prchitect and shall be binding on the Owner and Contractor.

ARTICLE 8 TIME

§ 8.1 DEFINITIONS

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§ 8.1.1 Unless otherwise provided. Contract Time is the period of time, including authorized adjustments, allotted in the Contract Document, for Substantial Completion of the Work.

f commencement of the Work is the date established in the Agreement. § 8.1.2 The date

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

day" as used in the Contract Documents shall mean calendar day unless otherwise specifically § 8.1.

§ 8.2 PROGRESS AND COMPLETION

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

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 DELAYS AND EXTENSIONS OF TIME

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control; or by delay authorized by the Owner pending mediation and arbitration; or by other causes that the Architect determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 CONTRACT SUM

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e tota amount payable by the The Contract Sum is stated in the Agreement and, including authorized adjustments is Owner to the Contractor for performance of the Work under the Contract Documents

§ 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Pri c, the Contractor shall submit to the Architect, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 At least ten days before the date established for exchangeress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared is accordance with the schedule of values, if required under Section 9.2, for completed portions of the Wark-Sub application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppriers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 3. Such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does tot intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 U less otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment lelivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location by agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

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

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encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will furthe constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) no de ex mination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or a part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also which d a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- defective Work not remedied; .1
- third party claims file for easonable evidence indicating probable filing of such claims unless security .2 acceptable to the Owner a provided by the Contractor;
- failure of the Comparison to make payments properly to Subcontractors or for labor, materials or .3 equipment;
- reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum; .4
- .5 damage in the Owner or a separate contractor;
- reasonable widence that the Work will not be completed within the Contract Time, and that the unpaid .6 because would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- repeated failure to carry out the Work in accordance with the Contract Documents. .7

en the bove reasons for withholding certification are removed, certification will be made for amounts § 9.5.2 W w withheld. previous

If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, § 9.5. issue joint checks to the Contractor and to any Subcontractor or material or equipment suppliers to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect such payment on the next Certificate for Payment.

§ 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

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§ 9.6.2 The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontra Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

imilar in that provided § 9.6.5 Contractor payments to material and equipment suppliers shall be treated in a manner in Sections 9.6.2, 9.6.3 and 9.6.4.

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

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in me full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Sub-contractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed bork of surnished materials, or both, under contract with the Contractor for which payment was made by the Owner Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach or rust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.7 FAILURE OF PAYMENT

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Parment, reif the Owner does not pay the Contractor within seven days after the date established in the Contract Document the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, then even additional days' written notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sun shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, increst as provided for in the Contract Documents.

§ 9.8 SUBSTANTIAL COMPLEXION

§ 9.8.1 Substantial Conception is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use,

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

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

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§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

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

§ 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at my stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or set onsented to by the insurer as required under Section 11.3.1.5 and authorized by public authorities having purisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insertaince, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be letermined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner. Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used incorace to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy of use on portion or portions of the Work shall not constitute acceptance of Work not complying with the requirment on the Contract Documents.

§ 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable ander the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certific te 2. Devenent stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment, ave been fulfilled.

§ 9.10.2 Neither find payment nor any remaining retained percentage shall become due until the Contractor submits to the Architer man anidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract neme to remain in force after final payment is currently in effect and will not be canceled or allowed to expire D until least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

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§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

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

- liens, Claims, security interests or encumbrances arising out of the Contract and unsettled: .1
- failure of the Work to comply with the requirements of the Contract Documents; or .2
- terms of special warranties required by the Contract Documents. .3

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

PROTECTION OF PERSONS AND PROPERTY **ARTICLE 10**

§ 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising III Sai precautions and programs in connection with the performance of the Contract.

§ 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of and shall provide reasonable protection to prevent damage, injury or loss to

- employees on the Work and other persons who may be affected thereby; .1
- the Work and materials and equipment to the incorporated therein, whether in storage on or off the site, .2 under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- .3 other property at the site or adjacent increase, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not delignated for removal, relocation or replacement in the course of construction.

and give notices required by applicable laws, statutes, ordinances, codes, § 10.2.2 The Contractor shall compary rules and regulations, and lawfar orders of public authorities bearing on safety of persons or property or their protection from damage, injury or los.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for afety and protection, including posting danger signs and other warnings against hazards, promulgating sentry regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

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§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not injured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Decuments regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable boding injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain he services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless colless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such materiar or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered narmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and start-up.

§ 10.3.3 To the fullest extent permited by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's onsultants and agents and employees of any of them from and against claims, damages, losses and expenses including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Station 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to badily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking internnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the shauther such materials or substances are required by the Contract Documents. The Owner shall be responsible for numerics or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

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

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§ 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 **INSURANCE AND BONDS**

§ 11.1 CONTRACTOR'S LIABILITY INSURANCE

§ 11.1.1 The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose cets any of them may be liable:

- Claims under workers' compensation, disability benefit and other similar employee one ts that are .1 applicable to the Work to be performed;
- Claims for damages because of bodily injury, occupational sickness or disease, or leath of the .2 Contractor's employees;
- Claims for damages because of bodily injury, sickness or disease, or deals of any person other than the .3 Contractor's employees;
- .4 Claims for damages insured by usual personal injury liability coverage;
- Claims for damages, other than to the Work itself, because of in ury or destruction of tangible .5 property, including loss of use resulting therefrom;
- Claims for damages because of bodily injury, death of person or property damage arising out of .6 ownership, maintenance or use of a motor vehicle;
- Claims for bodily injury or property damage arising out of completed operations; and .7
- Claims involving contractual liability insurance applicable to the Contractor's obligations under .8 Section 3.18.

§ 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without in error ption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations cover ge antil the expiration of the period for correction of Work or for such other period for maintenance of compress d operations coverage as specified in the Contract Documents.

§ 11.1.3 Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon refewal oureplacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or flored to expire until at least 30 days' prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 11.2 OWNER'S LIABILITY INSURANCE

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

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§ 11.3 PROPERTY INSURANCE

§ 11.3.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Project.

§ 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without initiation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstom, .ework. testing and startup, temporary buildings and debris removal including demolition occasioner by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Connector's services and expenses required as a result of such insured loss.

§ 11.3.1.2 If the Owner does not intend to purchase such property insurance required by the contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in whiting prior to commencement of the Work. The Contractor may then effect insurance that will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the soft more of shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.3.1.3 If the property insurance requires deductibles, the Ormer shall pay costs not covered because of such deductibles.

§ 11.3.1.4 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

§ 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Owner and the Contract are hall take reasonable steps to obtain consent of the insurance company or companies and shall, without praval written consent, take no action with respect to partial occupancy or use that would cause cancellation, larse or reduction of insurance.

§ 11.3.2 BOILER AND MACHINERY INSURANCE

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

§ 11.3.1. OSS OF USE INSURANCE

at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire or other hazards however caused.

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

§ 11.3.5 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment

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property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, the Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

§ 11.3.6 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

§ 11.3.7 WAIVERS OF SUBROGATION

The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub subco nti ctors. agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors escribed in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for current caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to any Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, immar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though hat person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the inturnet premium directly or indirectly, and whether or not the person or entity had an insurable interest in the preserve amaged.

§ 11.3.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests my appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. The Connector shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments on their Sub-subcontractors in similar manner.

§ 11.3.9 If required in writing by a party in increast, we wher as fiduciary shall, upon occurrence of an insured loss, give bond for proper performance of the Owner's dities. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution elected in the Agreement between the Owner and Contractor. If after such loss no other special agreement is ready and unless the Owner terminates the Contract for convenience, replacement of damaged property shall be performed by the Contractor after notification of a Change in the Work in accordance with Article 7.

§ 11.3.10 The Owner as induciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, we dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement. If the Owner and Contractor have selected arbitration as the method of binding dispute risolution, the Owner as fiduciary shall make settlement with insurers or, in the case of a dispute over distribution of it surance proceeds, in accordance with the directions of the arbitrators.

11. PERFORMANCE BOND AND PAYMENT BOND §

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

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

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UNCOVERING AND CORRECTION OF WORK ARTICLE 12 § 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Own r or a separate contractor in which event the Owner shall be responsible for payment of such costs.

§ 12.2 CORRECTION OF WORK

§ 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or but fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expension made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantia Completion of the Work or designated portion thereof or after the date for commencement of warranties established an one year after the date of Substantial under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do to unless he Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the owner wills to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waves the Nights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or sentect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for corregion of Work shall be extended with respect to portions of Work first performed after Substantial Completion of the period of time between Substantial Completion and the actual **O**rk completion of that portion of the

§ 12.2.2.3 The one-year period for entrection of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

factor shall remove from the site portions of the Work that are not in accordance with the § 12.2.3 The Con requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

e Conractor shall bear the cost of correcting destroyed or damaged construction, whether completed or § 12.2,4 T partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work accordance with the requirements of the Contract Documents. th

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

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§ 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Excert as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless numan legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a le der providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in percento due individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

§ 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Executives and rights and remedies available thereunder shall be in addition to and not a limitation of duties, congations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Alchitect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

§ 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable aws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall be ar all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable news or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by

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such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.6 INTEREST

Payments due and unpaid under the Contract Documents shall bear interest from the date payment indue at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time at the place where the Project is located.

§ 13.7 TIME LIMITS ON CLAIMS

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the time period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with his section 13.7.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stop ed for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcoutractor or their agents or employees or any other persons or entities performing portions of the Work under street indirect contract with the Contractor, for any of the following reasons:

- Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be .1 stopped;
- An act of government, such a decidration of national emergency that requires all Work to be stopped; .2
- Because the Architect has not hsued a Certificate for Payment and has not notified the Contractor of the .3 reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- The Owner has fitted to furnish to the Contractor promptly, upon the Contractor's request, reasonable .4 evidence as required by Section 2.2.1.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or then agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for empletion, or 120 days in any 365-day period, whichever is less.

§ 14.1.1 new the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

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§ 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment or me Contractor and may, subject to any prior rights of the surety:

- .1 Exclude the Contractor from the site and take possession of all materials, equipment, ools, a construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. doon written request of the Contractor, the Owner shall furnish to the Contractor a detailed a counting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

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

§ 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

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

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the event

- .1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the contractor is responsible; or
- .2 that an equipple adjustment is made or denied under another provision of the Contract.

§ 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

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

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor hall

- .2
 - cease operations as directed by the Owner in the notice;
 - take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
 - .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

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ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 CLAIMS

§ 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 NOTICE OF CLAIMS

Claims by either the Owner or Contractor must be initiated by written notice to the other party and to the Initia Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker Cla by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or whin 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9. And Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. The Architect will prepare Charge Orders and issue Certificates for Payment in accordance with the decisions of the Initial Decision Maker

§ 15.1.4 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sun, prittee notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for chains relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.5 CLAIMS FOR ADDITIONAL TIME

§ 15.1.5.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.5.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather condition, were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the chedured construction.

§ 15.1.6 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive Ching against each other for consequential damages arising out of or relating to this des Contract. This mutual waiver

- damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, .1 business and rejutation, and for loss of management or employee productivity or of the services of such persons, and
- damages in urred by the Contractor for principal office expenses including the compensation of .2 sonnel stationed there, for losses of financing, business and reputation, and for loss of profit except antic pated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.6 shall be deemed to preclude an award of analyzing the second and the second liq

§ 15.2 NITIAL DECISION

§ 15.2.1 Claims, excluding those arising under Sections 10.3, 10.4, 11.3.9, and 11.3.10, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim arising prior to the date final payment is due, unless 30 days have passed after the Claim has been referred to the Initial Decision Maker with no decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

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§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of such request, and shall either (1) povide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Chaim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) e in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The nutier devision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve the dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date or an initial decision, demand in writing that the other party file for mediation within 60 days of the initial decision. Each a demand is made and the party receiving the demand fails to file for mediation within the time required, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the strety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to be is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 MEDIATION

§ 15.3.1 Claims, sputes, or other matters in controversy arising out of or related to the Contract except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.6 shall be subject to mediation as a condition precedent to binding dispute resolution

§ 15.3. The names shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree myise shall be administered by the American Arbitration Association in accordance with its Construction Industry oth Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

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§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 ARBITRATION

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party fing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable preceding s based on the Claim would be barred by the applicable statute of limitations. For statute of limitations, proses, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment inter be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

with an additional person or entity duly § 15.4.3 The foregoing agreement to arbitrate and other agreements to applicate consented to by parties to the Agreement shall be specifically enforce ble under applicable law in any court having jurisdiction thereof.

§ 15.4.4 CONSOLIDATION OR JOINDER

§ 15.4.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) is a routed in agreement governing the other arbitration permits consolidation, (2) the arbitrations to be corsonanted substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar proceed ral rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Either party, at its sole discretion may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is equired if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute concert to arbitration of any claim, dispute or other matter in question not described in the written conser

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether v joinder or consolidation, the same rights of joinder and consolidation as the Owner and Contractor under this Agreement.

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CAESAR RODNEY SCHOOL DISTRICT

DIVISION OF FACILITIES MANAGEMENT

SECTION 00 73 13

SUPPLEMENTARY GENERAL CONDITIONS A201-2007

portion	owing supplements modify the "General Conditions of the Contract for Construction," AIA Document A201-2007. Where a of the General Conditions is modified or deleted by the Supplementary Conditions, the unaltered portions of the General cons shall remain in effect.
TABL	E OF ARTICLES
1.	GENERAL PROVISIONS
2.	OWNER
3.	CONTRACTOR
4.	ADMINISTRATION OF THE CONTRACT
5.	SUBCONTRACTORS
6.	CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS
7.	CHANGES IN THE WOLK
8.	TIME
9.	PAYMENTS AND COMPLETION
10.	PPOTECTION OF PERSONS AND PROPERTY
11.	INSUFANCE AND BONDS
12.	UNCOVERING AND CORRECTION OF WORK
13.	MISCELLANEOUS PROVISIONS
14.	TERMINATION OR SUSPENSION OF THE CONTRACT

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

ARTICLE 1: GENERAL PROVISIONS

- 1.1 BASIC DEFINITIONS
- 1.1.1 THE CONTRACT DOCUMENTS

Delete the last sentence in its entirety and replace with the following:

"The Contract Documents also include Advertisement for Bid, Instructions to Bidder, sample forms, the Bid Form, the Contractor's completed Bid and the Award Letter"

Add the following Paragraph:

- 1.1.2 In the event of conflict or discrepancies among the Contract Documents, the Documents prepared by the State of Delayare, Division of Facilities Management shall take precedence over all other documents.
- 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

Add the following Paragraphs:

- 1.2.4 In the case of an inconsistency between the Drawings and the Specifications, or within either document not clarified by addendum, the better quality or greater quantity of y ork shall be provided in accordance with the Architect's interpretation.
- 1.2.5 The word PROVIDE" as used in the Contract Documents shall mean "FURNISH AND INSTALL" and shall include, without limitation, all labor, materials, equipment, transportation, services and other items required to complete the Work.

The word "PRODUCT" as used in the Contract Documents means all materials, systems and equipment.

1.5

OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

Delete Paragraph 1.5.1 in its entirety and replace with the following:

"All pre-design studies, drawings, specifications and other documents, including those in electronic form, prepared by the Architect under this Agreement are, and shall remain, the property of the Owner whether the Project for which they are made is executed or not. Such documents may be used by the Owner to construct one or more like Projects without the approval of, or additional compensation to, the Architect. The Contractor, Subcontractors, Sub-subcontractors and Material or Equipment Suppliers are authorized to use and reproduce applicable portions of the Drawings, Specifications and other documents prepared by the

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STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

Architect and the Architect's consultants appropriate to and for use in the execution of their Work under the Contract Documents. They are not to be used by the Contractor or any Subcontractor, Sub-subcontractor or Material and Equipment Supplier on other Projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and Architect's consultants.

The Architect shall not be liable for injury or damage resulting from the re-use of drawings and specifications if the Architect is not involved in the re-use Project. Prior to re-use of construction documents for a Project in which the Architect is not also involved, the Owner will remove from such documents all identification of the original Architest, including name, address and professional seal or stamp."

Delete Paragraph 1.5.2 in its entirety.

ARTICLE 2: OWNER

2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

To Subparagraph 2.2.3 – Add the following sentence:

"The Contractor, at their expense shall be one posts to accurately identify the location of all underground utilities in the area of their excavation and shall bear all cost for any repairs required, out of failure to accurately identify said utilities."

Delete Subparagraph 2.2.5 in its entirety and substitute the following:

2.2.5

The Contractor shall be furnished free of charge up to three (3) sets of the Dowings and Project Manuals. Additional sets will be furnished at the cost of perioduction, postage and handling.

ARTICLE 3: CONTRACTOR

3.2

REVEN OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

Arrend Paragraph 3.2.2 to state that any errors, inconsistencies or omissions discovered shall be reported to the Architect and Owner immediately.

Delete the third sentence in Paragraph 3.2.3.

SUPERVISION AND CONSTRUCTION PROCEDURES

Add the following Paragraphs:

3.3.2.1 The Contractor shall immediately remove from the Work, whenever requested to do so by the Owner, any person who is considered by the Owner or Architect to be incompetent or disposed to be so disorderly, or

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who for any reason is not satisfactory to the Owner, and that person shall not again be employed on the Work without the consent of the Owner or the Architect.

- 3.3.4 The Contractor must provide suitable storage facilities at the Site for the proper protection and safe storage of their materials. Consult the Owner and the Architect before storing any materials.
- 3.3.5 When any room is used as a shop, storeroom, office, etc., by the Contractor or Subcontractor(s) during the construction of the Werk, the Contractor making use of these areas will be held responsible for any lopairs, patching or cleaning arising from such use.

3.4 LABOR AND MATERIALS

Add the Following Paragraphs:

3.4.4 Before starting the Work, each Contractor shall carefully examine all preparatory Work that has been executed to receive their Work. Check carefully, by whatever means are required, to insure that its Work and adjacent, related Work, will finish to proper contours, planes and levels. Promptly notify the General Contractor/Construction Manager of any defects or imperfections at preparatory Work which will in any way affect satisfactory completion of its Work. Absence of such notification will be construed as an acceptance of preparatory Work and later claims of defects will not be recognized.

3.4.5

3.5.1

Under no circumstances shall the Contractor's Work proceed prior to prevaratory Work having been completely cured, dried and/or otherwise hade satisfactory to receive this Work. Responsibility for timely installation of all materials rests solely with the Contractor responsible for that Work, who shall maintain coordination at all times.

3.5

the following Paragraphs:

The Contractor will guarantee all materials and workmanship against original defects, except injury from proper and usual wear when used for the purpose intended, for two (2) years after Acceptance by the Owner, and will maintain all items in perfect condition during the period of guarantee.

3.5.2 Defects appearing during the period of guarantee will be made good by the Contractor at his expense upon demand of the Owner, it being required that all work will be in perfect condition when the period of guarantee will have elapsed.

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- 3.5.3 In addition to the General Guarantee there are other guarantees required for certain items for different periods of time than the two (2) years as above, and are particularly so stated in that part of the specifications referring to same. The said guarantees will commence at the same time as the General Guarantee.
- 3.5.4 If the Contractor fails to remedy any failure, defect or damage within a reasonable time after receipt of notice, the Owner will have the right to replace, repair, or otherwise remedy the failure, defect or damage at the Contractor's expense.

3.11 DOCUMENTS AND SAMPLES AT THE SITE

Add the following Paragraphs:

- 3.11.1 During the course of the Work, the Centractor shall maintain a record set of drawings on which the Contractor shall mark the actual physical location of all piping, valves, equipment contruit, outlets, access panels, controls, actuators, including all apputenances that will be concealed once construction is complete etc., including all invert elevations.
- 3.11.2 At the completion of the project, the Contractor shall obtain a set of reproducible drawn as from the Architect, and neatly transfer all information outlined in 3.11.1 provide a complete record of the as-built conditions.
- 3.11.3 Provide five (5) prints of these reproducibles, one (1) set for the State Archives, and one (1) set along with the reproducibles themselves and ArtoCAD 2006/2010 CD's to Owner. In addition, attach one (1) complete set of prints to each of the Operating and Maintenance Instructions.
- 3.17 In the first venterice of the paragraph, insert "indemnify" between "shall" and "hold".

ARTICLE 4: ADMINISTRATION OF THE CONTRACT

ADMINISTRATION OF THE CONTRACT

Delete the first sentence of Paragraph 4.2.7 and replace with the following:

The Architect will review and approve or take other appropriate action upon the Contractor's submittals such as Shop Drawings, Product Data and Samples for the purpose of checking for conformance with the Contract Documents.

Delete the second sentence of Paragraph 4.2.7 and replace with the following:

4.2

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STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

The Architect's action will be taken with such reasonable promptness as to cause no delay in the Work in the activities of the Owner, Contractor or separate Contractors, while allowing sufficient time in the Owner's professional judgment to permit adequate review.

Add the following Paragraph:

4.2.10.1 There will be no full-time project representative provided by the Owner or Architect on this project.

Add to Paragraph 4.2.13 "and in compliance with all local requirements" to the end of the sentence

ARTICLE 5: SUBCONTRACTORS

5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

Delete Paragraph 5.2.3 in its entirety and replace why the following:

5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection, subject to the statutory requirements of 29 <u>Detaware Code</u> § 6962(d)(10)b.3 and 4.

ARTICLE 6: CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

Delete Paragraph 5.1.4 in its entirety.

6.2 MUTUAL RESPONSIBILITY

In the second sentence, strike the word "shall" and insert the word "may".

ARTICLE 7: CHANGES IN THE WORK

2

(SEE ARTICLE 7: CHANGES IN WORK IN THE GENERAL REQUIREMENTS)

AR NCLE 8: TIME

8.2 PROGRESS AND COMPLETION

Add the following Paragraphs:

8.2.1.1 Refer to Specification Section SUMMARY OF WORK for Contract time requirements.

DIVISION OF FACILITIES MANAGEMENT

8.2.4 If the Work falls behind the Progress Schedule as submitted by the Contractor, the Contractor shall employ additional labor and/or equipment necessary to bring the Work into compliance with the Progress Schedule at no additional cost to the Owner.

8.3 DELAYS AND EXTENSION OF TIME

8.3.1 Strike "arbitration" and insert "remedies at law or in equit

Add the following Paragraph:

8.3.2.1 The Contractor shall update the status of the suspension, delay, or interruption of the Work with each Application for Payment. (The Contractor shall report the termination of succeause immediately upon the termination thereof.) Failure to comply with this procedure shall constitute a waiver for any claim for adjustment of time or price based upon said cause.

Delete Paragraph 8.3.3 in its entirety and replace with the following:

8.3.3 Except in the case of a supervision of the Work directed by the Owner, an extension of time under the provisions of Paragraph 8.3.1 shall be the Contractor's sole remeay in the progress of the Work and there shall be no payment or compensation to the Contractor for any expense or damage resulting from the celay.

Add the following Paragraph:

8.3.4 By bermitting the Contractor to work after the expired time for completion of the project, the Owner does not waive their rights under the Contract.

ARTICLE 9: PAYMENT, AND COMPLETION

SCHEDULE OF VALUES

Add the following Paragraphs:



9.2

The Schedule of Values shall be submitted using AIA Document G702, Continuation Sheet to G703.

9.2.2 The Schedule of Values is to include a line item for Project Closeout Document Submittal. The value of this item is to be no less than 1% of the initial contract amount.

9.3 APPLICATIONS FOR PAYMENT

Add the following Paragraph:

DIVISION OF FACILITIES MANAGEMENT

9.3.1.3 Application for Payment shall be submitted on AIA Document G702 "Application and Certificate for Payment", supported by AIA Document G703 "Continuation Sheet". Said Applications shall be fully executed and notarized.

Add the following Paragraphs:

- 9.3.4 Until Closeout Documents have been received and outstanding items completed the Owner will pay 95% (ninety-five percent) of the adjound due the Contractor on account of progress payments.
- 9.3.5 The Contractor shall provide a current and updated Progress Schedule to the Architect with each Application for Payment. Failure to provide Schedule will be just cause for rejection of Application for Payment.

9.5 DECISIONS TO WITHHOLD CERTIFICATION Add the following to 9.5.1:

- .8 failure to provide a current Progress Schedule;
- .9 a lien or attachment is filed;
- .10 failure to comply with mandatory requirements for maintaining Record Documents.

9.6 PROGRESS PAYMENTS

Delete Paragraph 9.6.1 in its entirety and replace with the following:

- 9.6.1 After the Architect has approved and issued a Certificate for Payment, payment shall be made by the Owner within 30 days after Owner's receipt of the Certificate for Payment.
- 9.7 FAILURE OF PAYMENT

n first centence, strike "seven" and insert "thirty (30)". Also strike "binding dispute esolution" and insert "remedies at law or in equity".

SUBSTANTIAL COMPLETION

To Subparagraph 9.8.3- Add the following sentence:

"If the Architect is required to make more than 2 inspections of the same portion of work, the Contractor shall be responsible for all costs associated with subsequent inspections including but not limited to any Architect's fees."

9.8.5 In the second sentence, strike "shall" and insert "may".

ARTICLE 10: PROTECTION OF PERSONS AND PROPERTY

9.8

DIVISION OF FACILITIES MANAGEMENT

10.1 SAFETY PRECAUTIONS AND PROGRAMS

Add the following Paragraphs:

- 10.1.1.1 Each Contractor shall develop a safety program in accordance with the Occupational Safety and Health Act of 1970. A copy of said plan shall be furnished to the Owner and Architect prior to the commencement of that Contractor's Work.
- 10.1.2 Each Contractor shall appoint a Safety Representative Safety Representatives shall be someone who is on site of a functime basis. If deemed necessary by the Owner or Architect, Contractor Safety meetings will be scheduled. The attendance of all Safety Representatives will be required. Minutes will be recorded of saidmeetings by the Contractor and will be distributed to all parties as well as ported in all job offices/trailers etc.

10.2 SAFETY OF PERSONS AND PROPERTY

Add the following Paragraph:

- 10.2.4.1 As required in the Habarcoas Chemical Act of June 1984, all vendors supplying any material that may be defined as hazardous must provide Material Safety Data Sheets for thos products. Any chemical product should be considered hazardous if it has a caution warning on the label relating to a potential physical or health hazard, if it is known to be present in the work place, and if employees may be exposed under normal conditions or in foreseeable emergency situations. Material Safety Data Sheets snall be provided directly to the Owner, along with the shipping slips that include those products.
- 10.3 HAZARIOUS MATERIALS

Delee Paragraph 10.3.3 in its entirety.

10.5

Delete Paragraphs 10.3.6 in its entirety.

ARTICLE 11: INSURANCE AND BONDS

CONTRACTOR'S LIABILITY INSURANCE

11.1.4 Strike "the Owner" immediately following "(1)" and strike "and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations."

11.2 OWNER'S LIABILITY INSURANCE

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

STATE OF DELAWARE

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Delete Paragraph 11.2 in its entirety.

11.3 PROPERTY INSURANCE

Delete Paragraph 11.3 in its entirety and replace with the following:

11.3 The State will not provide Builder's All Risk Insurance for the Project. The Contractor and all Subcontractors shall provide property coverage for their tools and equipment, as necessary. Any mandatory deductible required by the Contractor's Insurance shall be the responsibility of the Contractor.

11.4 PERFORMANCE BOND AND PAYMENT BOND

Add the following sentence: "The bonds will conform to these forms approved by the Office of Management and Budget."

- ARTICLE 12: UNCOVERING AND CORRECTION OF WO
- 12.2.2 AFTER SUBSTANTIAL COMPLETION Add the following Paragraph:
 - 12.2.2.1.1 At any time during the progress of the Work, or in any case where the nature of the defects with be such that it is not expedient to have corrected, the Owner, at its option, will have the right to deduct such sum, or sums, of money from the amount of the Contract as it considers justified to adjust the difference in value between the defective work and that required under contract including any damage to the structure.
 - 12.2.2.1 Srike "one" and insert "two".
 - 2.2.2.2 Strike "one" and insert "two".
 - Strike "one" and insert "two".

In second sentence, strike "one" and insert "two".

13. MISCELLANEOUS PROVISIONS

GOVERNING LAW

Strike "except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4."

13.6 INTEREST

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

Strike "the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located." Insert "30 days of presentment of the authorized Certificate of Payment at the annual rate of 12% or 1% per month.

13.7 TIME LIMITS ON CLAIMS

Strike the last sentence.

Add the following Paragraph:

- 13.8 CONFLICTS WITH FEDERAL STATUTES OR REGULATIONS
- 13.8.1 If any provision, specifications or requirement of the Contract Documents conflict or is inconsistent with any statute, law or regulation of the government of the United State of America, the Contractor shall notify the Architect and Owner immediately upon discovery.

ARTICLE 14: TERMINATION OR SUSPENSION OF THE CONTRAC

14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

Delete Paragraph 14.4.3 in its entirety and replace with the following:

14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to r ceive payment for Work executed, and cost incurred by reason of such termination along with reasonable overhead.

ARTICLE 15: CLAIMS AND DISPUTES

- 15.1.2 Throughout the Furagraph strike "21" and insert "45".
- 15.1.6 CLAPHS FOR CONSEQUENTIAL DAMAGES
 - Delete Raragraph 15.1.6 in its entirety.
 - INTIAL DECISION

Delete Paragraph 15.2.5 in its entirety and replace with the following:

15.2.5 The Architect will approve or reject Claims by written decision, which shall state the reasons therefore and shall notify the parties of any change in the Contract Sum or Contract Time or both. The approval or rejection of a Claim by the Architect shall be subject to mediation and other remedies at law or in equity.

Delete Paragraph 15.2.6 and its subparagraphs in their entirety.

15.2

DIVISION OF FACILITIES MANAGEMENT

15.3 MEDIATION

- 15.3.1 Strike "binding dispute resolution" and insert "any or all remedies at law or in equity".
- 15.3.2 In the first sentence, delete "administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedure in effect on the date of the Agreement," Strike "binding dispute resolution" and insert "remedies at law and in equity".

15.4 ARBITRATION

Delete Paragraph 15.4 and its sub-sections in its entirety.

'C,

END OF SECTION

FRED FIFER III MIDDLE SCHOOL ROOF REPLACEMENT CAESAR RODNEY SCHOOL DISTRICT

SECTION 00 52 13

DELAWARE PREVAILING WAGE RATES

State of Delaware, Department of Labor, Prevailing Wages. Provided in accordance with Delaware's Prevailing Wage Regulations.

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STATE OF DELAWARE DEPARTMENT OF LABOR DIVISION OF INDUSTRIAL AFFAIRS OFFICE OF LABOR LAW ENFORCEMENT PHONE: (302) 451-3423

Mailing Address: 225 CORPORATE BOULEVARD SUITE 104 NEWARK, DE 19702 Located at: 225 CORPORATE BOULEVARD SUITE 104 NEWARK, DE 19702

PREVAILING WAGES FOR BUILDING CONSTRUCTION EFFECTIVE MARCH 15, 2017

CLASSIFICATION	NEW CASTLE	KENT	SULLEY
ASBESTOS WORKERS	22.86	28.16	40.98
BOILERMAKERS	68.44	34.72	51.05
BRICKLAYERS	51.99	51.99	51.99
CARPENTERS	53.81	53.6	42.77
CEMENT FINISHERS	72.28	. 71	22.17
ELECTRICAL LINE WORKERS	45.47	38.99	29.73
ELECTRICIANS	66.85	6.75	66.85
ELEVATOR CONSTRUCTORS	90.49	64.49	31.94
GLAZIERS	71.20	71.20	56.66
INSULATORS	55.48	55.48	55.48
IRON WORKERS	62 51	62.85	62.85
LABORERS	70	44.70	44.70
MILLWRIGHTS	62 1	69.18	55.75
PAINTERS	48.21	48.47	48.47
PILEDRIVERS	5.27	39.35	31.83
PLASTERERS	29.84	29.84	22.12
PLUMBERS/PIPEFITTERS/STEAMFITTERS	65.95	51.49	57.03
POWER EQUIPMENT OPERATORS	67.29	67.29	43.83
ROOFERS-COMPOSITION	24.01	23.70	21.6
ROOFERS-SHINGLE/SLATE/TILE	18.39	21.86	17.1
SHEET METAL WORKERS	67.03	67.03	67.0
SOFT FLOOR LAYERS	51.12	51.12	51.12
SPRINKLER FITTERS	57.29	57.29	57.2
TERRAZZO/MARBLE/TYLE LVRS	57.72	57.72	47.5
TERRAZZO/MARBLE/T VE STRS	66.02	66.02	55.02
TRUCK DRIVERS	28.75	27.44	20.9

CERTIFIED: 3/16/17

NOTI

BY: LABOR LAW ENFORCEMENT OF OFFI2E ADMINISTRAT R

THESE RATES ARE PROMULGATED AND ENFORCED PURSUANT TO THE PREVAILING WAGE REGULATIONS ADOPTED BY THE DEPARTMENT OF LABOR ON APRIL 3, 1992.

CLASSIFICATIONS OF WORKERS ARE DETERMINED BY THE DEPARTMENT OF LABOR. FOR ASSISTANCE IN CLASSIFYING WORKERS, OR FOR A COPY OF THE REGULATIONS OR CLASSIFICATIONS, PHONE (302) 451-3423.

NON-REGISTERED APPRENTICES MUST BE PAID THE MECHANIC'S RATE.

PROJECT: Fred fifer III Middle School Roof replacment , Kent County

PREVAILING WAGE DEBARMENT LIST

The following contractors have been debarred for violations of the prevailing wage law 29<u>Del.C</u>. §6960 or other applicable State statutes.

Therefore, no public construction contract in this State shall be bid on, awarded to, or received by contractors and individuals on this list for a period of (3) three years from the date of the judgment or as deemed by a court of competent jurisdiction.

Contractor	Address	Date of Deborment
Mullen Brothers, Inc. and Daniel Mullen, individually	3375 Garnett Road, Boothwyn, PA 19066	Indefinite/ civil Contempt
MMR Associates DBA Peninsula Glass and Michael Rooney, individually	679 Horse Perco Road, Dover DE 19901	1/20/2015
Site Work Safety Supplies, Inc. and Peter Coker, individually	4020 Seven Hickories Road Dover, DE 19904	1/12/2016
Green Granite and Jason Green, individually	604 Heatherbrooke Court Avondale, PA 19311	Indefinite/ Civil Contempt
DCS Staffing & Cleaning An fessionals, LLC	4805 Garrison Blvd. Suite 200 Baltimore, MD 21821	Indefinite/ 19 <u>Del.C.</u> 2374(f)
ro Irlage Landscaping, Inc. and Owner(s) individually	23 Commerce Street Wilmington, DE 19801 and/or 2 Cameo Road Claymont, DE 19703	Indefinite/19 <u>Del.C.</u> §108 & 10 <u>Del.C.</u> 542(c)
Liberty Mechanical, LLC and Owner(s), individually	2032 Duncan Road Wilmington, DE 19801	Indefinite/ 19 <u>Del.C.</u> 2374(f)
Integrated Mechanical and Fire Systems Inc. and Allison Sheldon, individually	4601 Governor Printz Boulevard Wilmington, DE 19809	Indefinite/19 Del.C. §108 & 10 Del.C. 542(c

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

GENERAL REQUIREMENTS

TABLE OF ARTICLES

- 1. GENERAL PROVISIONS
- 2. OWNER
- 3. CONTRACTOR
- 4. ADMINISTRATION OF THE CONTRACT
- 5. SUBCONTRACTORS
- 6. CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS
- 7. CHANGES IN THE WORK
- 8. TIME
- 9. PAYMENTS AND COMPLETION
- 10. PROTECTION OF PERSONS AND PROPERTY
- 11. INSURANCE AND BONK
- 12. UNCOVERING AND CORRECTION OF WORK
- 13. MISCELLANEOUS PROVISIONS
- 14. TERMINATION OR SUSPENSION OF THE CONTRACT

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1.1 CONTRACT DOCUMENTS

- 1.1.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary and what is required by one shall be as binding as if required by all. Performance by the Contractor shall be required to an extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the ed results.
- Work including material purchases shall not begin until the Contractor is 1.1.2 n receipt of a bonafide State of Delaware Purchase Order. Any work performed or material purchases prior to the issuance of the Purchase Order is done at the Contractor's two risk and cost.
- EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC V /ORK 1.2
- 1.2.1 For Public Works Projects financed in whole or in part by state appropriation the Contractor agrees that during the performance of this contract:
 - The Contractor will not discriminate against any employee or applicant for employment because of race, creed, six, color, sexual orientation, gender identity 1. or national origin. The Contractor nill take positive steps to ensure that applicants are employed and that employees are treated during employment without regard to their race, creed, sex, color, sexual grientation, gender identity or national origin. Such action shall include but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting agency setting forth this nondiscrimination clause.
 - 2. The Contra tor will, in all solicitations or advertisements for employees placed by or on schart of the Contractor, state that all gualified applicants will receive istoration for employment without regard to race, creed, sex, color, sexual CO entation, gender identity or national origin."

ARTICLE 2:



OWNER

(NO ADDITIONAL GENERAL REQUIREMENTS – SEE SUPPLEMENTARY GENERAL CONDITIONS)

Schedule of Values: The successful Bidder shall within twenty (20) days after receiving notice to proceed with the work, furnish to the Owner a complete schedule of values on the various items comprising the work.

3.2 Subcontracts: Upon approval of Subcontractors, the Contractor shall award their Subcontracts as soon as possible after the signing of their own contract and see that all material, their own and those of their Subcontractors, are promptly ordered so that the work will not be delayed by failure of materials to arrive on time.

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- 3.3 Before commencing any work or construction, the General Contractor is to consult with the Owner as to matters in connection with access to the site and the allocation of Ground Areas for the various features of hauling, storage, etc.
- 3.4 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all position of the Work under the Contract, unless the Contract Documents give other specific instructions.
- 3.5 The Contractor shall enforce strict discipline and good order ar ong be Contractor's employees and other persons carrying out the Contract. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.
- 3.6 The Contractor warrants to the Owner that materials and exupment furnished will be new and of good quality, unless otherwise permitted, and that the work will be free from defects and in conformance with the Contract Documents. Work not conforming to these requirements, including substitutions not properly a project, may be considered defective. If required by the Owner, the Contractor shall furnish evidence as to the kind and quality of materials and equipment provided.
- 3.7 Unless otherwise provided, the Contractor shall pay all sales, consumer, use and other similar taxes, and shall secure and pay for required permits, fees, licenses, and inspections necessary for proper execution of the Work.
- 3.8 The Contractor shall comply with one give notices required by laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on performance of the Work. The Contractor shall promptly notify the Owner if the Drawings and Specifications are observed to be at variance therewith.
- 3.9 The Contractor shall be responsible to the Owner for the acts and omissions of the Contractor's encloyees, Subcontractors and their agents and employees, and other persons periodicity portions of the Work under contract with the Contractor.
- 3.10 The Contractor shall keep the premises and surrounding area free from accumulation of wast, praterials or rubbish caused by operations under the Contract. At completion of the Work the Contractor shall remove from and about the Project all waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials. The Contractor shall be responsible for returning all damaged areas to their original conditions.

STATE LICENSE AND TAX REQUIREMENTS

Each Contractor and Subcontractor shall be licensed to do business in the State of Delaware and shall pay all fees and taxes due under State laws. In conformance with Section 2503, Chapter 25, Title 30, <u>Delaware Code</u>, "the Contractor shall furnish the Delaware Department of Finance within ten (10) days after entering into any contract with a contractor or subcontractor not a resident of this State, a statement of total value of such contract or contracts together with the names and addresses of the contracting parties."

3.12 The Contractor shall comply with all requirements set forth in Section 6962, Chapter 69, Title 29 of the <u>Delaware Code</u>.

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

3.13 During the contract Work, the Contractor and each listed Subcontractor, shall implement an Employee Drug Testing Program in accordance with OMB Regulation 4104-"Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on "Large Public Works Projects". "Large Public Works" is based upon the current threshold required for bidding Public Works as set by the Purchasing and Contracting Advisory Council.

ARTICLE 4: ADMINISTRATION OF THE CONTRACT

- 4.1 CONTRACT SURETY
- 4.1.1 PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT SOND
- 4.1.2 All bonds will be required as follows unless specifically valved elsewhere in the Bidding Documents.
- 4.1.3 Contents of Performance Bonds The bond shall be in the form approved by the Office of Management and Budget. The bond shall be conditioned upon the faithful compliance and performance by the successful bidder of each and every term and condition of the contract and the proposal, plans, specifications, and bid documents thereof. Each term and condition shall be met at the time and in the manner prescribed by the Contract, Bid documents and the specifications, including the payment in full to every person furnishing materiel or performing labor in the performance of the Contract, of all sums of money due the person for such labor and materiels. (The bond shall also contain the successful bidder's guarantee to indemnify and save harmless the State and the agency from all costs, damages and extenses growing out of or by reason of the Contract in accordance with the Contract.)
- 4.1.4 Invoking a Performance Bond The agency may, when it considers that the interest of the State so require, cause judgement to be confessed upon the bond.
- 4.1.5 Within twenty (2) days after the date of notice of award of contract, the Bidder to whom the award h made shall furnish a Performance Bond and Labor and Material Payment Bond each equal to the full amount of the Contract price to guarantee the faithful performance of all terms, covenants and conditions of the same. The bonds are to be issued by an acceptable Bonding Company licensed to do business in the State of Delaware and shall be issued in duplicate.

Performance and Payment Bonds shall be maintained in full force (warranty bond) for a period of two (2) years after the date of the Certificate for Final Payment. The Performance Bond shall guarantee the satisfactory completion of the Project and that the Contractor will make good any faults or defects in his work which may develop during the period of said guarantees as a result of improper or defective workmanship, material or apparatus, whether furnished by themselves or their Sub-Contractors. The Payment Bond shall guarantee that the Contractor shall pay in full all persons, firms or corporations who furnish labor or material or both labor and material for, or on account of, the work included herein. The bonds shall be paid for by this Contractor. The Owner shall have the right to demand that the proof parties signing the bonds are duly authorized to do so.

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4.2 FAILURE TO COMPLY WITH CONTRACT

4.2.1 If any firm entering into a contract with the State, or Agency that neglects or refuses to perform or fails to comply with the terms thereof, the Agency which signed the Contract may terminate the Contract and proceed to award a new contract in accordance with this Chapter 69, Title 29 of the Delaware Code or may require the Surety on the Performance Bond to complete the Contract in accordance with the terms of the Performance Performance Nothing herein shall preclude the Agency from pursing additional remedies at otherwise provided by law.

4.3 CONTRACT INSURANCE AND CONTRACT LIABILITY

- 4.3.1 In addition to the bond requirements stated in the Bid Documents, each successful Bidder shall purchase adequate insurance for the performance of the Contract and, by submission of a Bid, agrees to indemnify and save harmass and to defend all legal or equitable actions brought against the State, any Agency, officer and/or employee of the State, for and from all claims of liability which is or may be the result of the successful Bidder's actions during the performance of the Contract
- 4.3.2 The purchase or nonpurchase of such insufance on the involvement of the successful Bidder in any legal or equitable defense of any action brought against the successful Bidder based upon work performed pursuant to the Contract will not waive any defense which the State, its agencies and their respective officers, employees and agents might otherwise have against such claims, opecifically including the defense of sovereign immunity, where applicable, and by the terms of this section, the State and all agencies, officers and employees thereof shall not be financially responsible for the consequences of work performed, pursuant to said contract.

4.4 RIGHT TO AUDIT RECORDS

- 4.4.1 The Owner shall have the right to audit the books and records of a Contractor or any Subcontractor order any Contract or Subcontract to the extent that the books and records relate to the performance of the Contract or Subcontract.
- 4.4.2 Said books and records shall be maintained by the Contractor for a period of seven (7) years from the date of final payment under the Prime Contract and by the Subcontractor for a period of seven (7) years from the date of final payment under the Subcontract.

ARTICLE 5: SUBCONTRACTORS

SUBCONTRACTING REQUIREMENTS

All contracts for the construction, reconstruction, alteration or repair of any public building (not a road, street or highway) shall be subject to the following provisions:

1. A contract shall be awarded only to a Bidder whose Bid is accompanied by a statement containing, for each Subcontractor category, the name and address (city or town and State only – street number and P.O. Box addresses not required) of the subcontractor whose services the Bidder intends to use in performing the Work and providing the material for such Subcontractor category.

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- 2. A Bid will not be accepted nor will an award of any Contract be made to any Bidder which, as the Prime Contractor, has listed itself as the Subcontractor for any Subcontractor unless:
 - A. It has been established to the satisfaction of the awarding Agency that the Bidder has customarily performed the specialty work of such Subcontractor category by artisans regularly employed by the Direcr's firm;
 - B. That the Bidder is duly licensed by the State to engage in such specialty work, if the State requires licenses; and
 - C. That the Bidder is recognized in the industry as a bona ide Subcontractor or Contractor in such specialty work and Subcontractor category.
- 5.1.2 The decision of the awarding Agency as to whether a Bilder who list itself as the Subcontractor for a Subcontractor category shall be final and binding upon all Bidders, and no action of any nature shall lie against an awarding agency or its employees or officers because of its decision in this regard.
- 5.1.3 After such a Contract has been awarded, the successful Bidder shall not substitute another Subcontractor for any Subcontractor whose name was set forth in the statement which accompanied the Bid without the written consent of the awarding Agency.
- 5.1.4 No Agency shall consent to any substitution of Subcontractors unless the Agency is satisfied that the Subcontractor whose name is on the Bidders accompanying statement:
 - A. Is unqualified to perform the work required;
 - B. Has failed to execute a timely reasonable Subcontract;
 - C. Has determed in the performance on the portion of the work covered by the Subcontract; or
 - D. Is to lorger engaged in such business.

5.1.5



Shouldon Bidder be awarded a contract, such successful Bidder shall provide to the agency the taxpayer identification license numbers of such subcontractors. Such numbers shall be provided on the later of the date on which such subcontractor is required to be identified or the time the contract is executed. The successful Bidder shall provide to the agency to which it is contracting, within 30 days of entering into such public works contract, copies of all Delaware Business licenses of subcontractors and/or independent contractors that will perform work for such public works contract. However, if a subcontractor or independent contractor is contract the Delaware Business license of such subcontractor or independent contractor shall be provided to the agency within 10 days of being contracted or hired.

- 5.2 PENALTY FOR SUBSTITUTION OF SUBCONTRACTORS
- 5.2.1 Should the Contractor fail to utilize any or all of the Subcontractors in the Contractor's Bid statement in the performance of the Work on the public bidding, the Contractor shall be penalized in the amount of (project specific amount*). The Agency may determine to deduct

STATE OF DELAWARE

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payments of the penalty from the Contractor or have the amount paid directly to the Agency. Any penalty amount assessed against the Contractor may be remitted or refunded, in whole or in part, by the Agency awarding the Contract, only if it is established to the satisfaction of the Agency that the Subcontractor in question has defaulted or is no longer engaged in such business. No claim for the remission or refund of any penalty shall be granted unless an application is filed within one year after the liability of the successful Bidder accrue. All penalty amounts assessed and not refunded or remitted to the contractor shall be provided to the State.

*one (1) percent of contract amount not to exceed \$10,000

- 5.3 ASBESTOS ABATEMENT
- 5.3.1 The selection of any Contractor to perform asbestos abatement for State-funded projects shall be approved by the Office of Management and Rudget Division of Facilities Management pursuant to Chapter 78 of Title 16.
- 5.4 STANDARDS OF CONSTRUCTION FOR THE PROTECTION OF THE PHYSICALLY HANDICAPPED
- 5.4.1 All Contracts shall conform with the standard established by the Delaware Architectural Accessibility Board unless otherwise exempted by the Board.
- 5.5 CONTRACT PERFORMANCE
- 5.5.1 Any firm entering into a Public Works Contract that neglects or refuses to perform or fails to comply with its terms, the Ugencr may terminate the Contract and proceed to award a new Contract or may require the Surety on the Performance Bond to complete the Contract in accordance with the terms of the Performance Bond.

ARTICLE 6: CONSTRUCTION BY WNER OR SEPARATE CONTRACTORS

6.1 The Owner reserves the right to simultaneously perform other construction or operations related to the Ploject with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other Projects at the same site.

6.2

The Contractor shall afford the Owner and other Contractors reasonable opportunity for access and storage of materials and equipment, and for the performance of their activities, and shall connect and coordinate their activities with other forces as required by the Contract Documents.

CHANGES IN THE WORK

The Owner, without invalidating the Contract, may order changes in the Work consisting of Additions, Deletions, Modifications or Substitutions, with the Contract Sum and Contract completion date being adjusted accordingly. Such changes in the Work shall be authorized by written Change Order signed by the Professional, as the duly authorized agent, the Contractor and the Owner.

7.2 The Contract Sum and Contract Completion Date shall be adjusted only by a fully executed Change Order.

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- 7.3 The additional cost, or credit to the Owner resulting from a change in the Work shall be by mutual agreement of the Owner, Contractor and the Architect. In all cases, this cost or credit shall be based on the 'DPE' wages required and the "invoice price" of the materials/equipment needed.
- 7.3.1 "DPE" shall be defined to mean "direct personnel expense". Direct payroll expense includes direct salary plus customary fringe benefits (prevailing wage rates) and decunsited statutory costs such as workman's compensation insurance, Social Security medicare, and unemployment insurance (a maximum multiplier of 1.35 times DPE).
- 7.3.2 "Invoice price" of materials/equipment shall be defined to mean the actual ost of materials and/or equipment that is paid by the Contractor, (or subcontractor); to comaterial distributor, direct factory vendor, store, material provider, or equipment leasing ontity. Rates for equipment that is leased and/or owned by the Contractor or subcontractor(s) shall not exceed those listed in the latest version of the "Means Building Construction Cost Data" publication.
- 7.3.3 In addition to the above, the General Contractor is allowed a fifteen percent (15%) markup for overhead and profit for additional work performed by the General Contractor's own forces. For additional subcontractor work, the Subcontractor is allowed a fifteen (15) percent overhead and profit on change order work above and beyond the direct costs stated previously. To this amount, the General Contractor will be allowed a mark-up not exceeding seven and one half percent (7.5%) on the subcontractors work. These mark-ups shall include all costs including but not limited to: overhead, profit, bonds, insurance, supervision, etc. No markup to permitted on the work of the subcontractors's onsite superintendent/staff, oproject manager, unless a change in the work changes the project duration and is identified by the CPM schedule. There will be no other costs associated with the change order.

ARTICLE 8: TIME

8.1

Time limit, it say, are as stated in the Project Manual. By executing the Agreement, the Contractor confilms that the stipulated limits are reasonable, and that the Work will be completed vitbin the anticipated time frame.

8.2

If progress of the Work is delayed at any time by changes ordered by the Owner, by labor disputes, fire, unusual delay in deliveries, abnormal adverse weather conditions, unavoidable casualties or other causes beyond the Contractor's control, the Contract Time shall be extended for such reasonable time as the Owner may determine.

Any extension of time beyond the date fixed for completion of the construction and acceptance of any part of the Work called for by the Contract, or the occupancy of the building by the Owner, in whole or in part, previous to the completion shall not be deemed a waiver by the Owner of his right to annul or terminate the Contract for abandonment or delay in the matter provided for, nor relieve the Contractor of full responsibility.

- 8.4 SUSPENSION AND DEBARMENT
- 8.4.1 Per Section 6962(d)(14), Title 29, Delaware Code, "Any Contractor who fails to perform a public works contract or complete a public works project within the time schedule established by the Agency in the Invitation To Bid, may be subject to Suspension or

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Debarment for one or more of the following reasons: a) failure to supply the adequate labor supply ratio for the project; b) inadequate financial resources; or, c) poor performance on the Project."

8.4.2 "Upon such failure for any of the above stated reasons, the Agency that contracted for the public works project may petition the Director of the Office of Management and Budget for Suspension or Debarment of the Contractor. The Agency shall send a copy of on to the Contractor within three (3) working days of filing with the Director. Director concludes that the petition has merit, the Director shall schedule and hild a rearing to determine whether to suspend the Contractor, debar the Contractor, deby the petition. The Agency shall have the burden of proving, by a preponderance of the evidence, that the Contractor failed to perform or complete the public works project within the time schedule established by the Agency and failed to do so for one or more of the following reasons: a) failure to supply the adequate labor supply ratio for the project; b) inadequate financial resources; or, c) poor performance on the project. Upon a finding in favor of the Agency, the Director may suspend a Contractor from Bidding on any project funded, in whole or in part, with public funds for up to 1 year for a first offense, up to 3 years for a second offense and permanently debar the Contractor for a third offense. The Director shall issue a written decision and shall send a conv to the Contractor and the Agency. Such decision may be appealed to the Superior Couv within thirty (30) days for a review on the record."

8.5 RETAINAGE

- 8.5.1 Per Section 6962(d)(5) a.3, Title 29, Delaware Code: The Agency may at the beginning of each public works project establish a time schedule for the completion of the project. If the project is delayed beyond the completion date due to the Contractor's failure to meet their responsibilities, the Agency may forfeit, at its discretion, all or part of the Contractor's retainage.
- 8.5.2 This forfeiture of ritainage also applies to the timely completion of the punchlist. A punchlist will only one prepared upon the mutual agreement of the Owner, Architect and Contractor. Once the punchlist is prepared, all three parties will by mutual agreement, establish a schedule for its completion. Should completion of the punchlist be delayed beyond the established date due to the Contractor's failure to meet their responsibilities, the souncy may hold permanently, at its discretion, all or part of the Contractor's retainage.

PLYMENTS AND COMPLETION

APPLICATION FOR PAYMENT

Applications for payment shall be made upon AIA Document G702. There will be a five percent (5%) retainage on all Contractor's monthly invoices until completion of the project. This retainage may become payable upon receipt of all required closeout documentation, provided all other requirements of the Contract Documents have been met.

9.1.2 A date will be fixed for the taking of the monthly account of work done. Upon receipt of Contractor's itemized application for payment, such application will be audited, modified, if found necessary, and approved for the amount. Statement shall be submitted to the Owner.

ARTICLE 9:

9.1

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- 9.1.3 Section 6516, Title 29 of the <u>Delaware Code</u> annualized interest is not to exceed 12% per annum beginning thirty (30) days after the "presentment" (as opposed to the date) of the invoice.
- 9.2 PARTIAL PAYMENTS
- 9.2.1 Any public works Contract executed by any Agency may provide for partial parameter at the option of the Owner with respect to materials placed along or upon the other or stored at secured locations, which are suitable for use in the performance of the contrad.
- 9.2.2 When approved by the agency, partial payment may include the values of tested and acceptable materials of a nonperishable or noncontaminative nature which have been produced or furnished for incorporation as a permanent part of the work yet to be completed, provided acceptable provisions have been made for storinge.
- 9.2.2.1 Any allowance made for materials on hand will not exceed the delivered cost of the materials as verified by invoices furnished by the Contractor, nor will it exceed the contract bid price for the material complete in place.
- 9.2.3 If requested by the Agency, receipted bill from al Contractors, Subcontractors, and material, men, etc., for the previous proment must accompany each application for payment. Following such a request, no payment will be made until these receipted bills have been received by the Owner.
- 9.3 SUBSTANTIAL COMPLETION
- 9.3.1 When the building has been made suitable for occupancy, but still requires small items of miscellaneous work, the Owner will determine the date when the project has been substantially completed.
- 9.3.2 If, after the Work has been substantially completed, full completion thereof is materially delayed through on radie of the Contractor, and without terminating the Contract, the Owner may make payment of the balance due for the portion of the Work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment that it shall not constitute a waiver of claims.
- 9.3.3 On projects where commissioning is included, the commissioning work as defined in the specifications must be complete prior to the issuance of substantial completion.



FINAL PAYMENT

- Final payment, including the five percent (5%) retainage if determined appropriate, shall be made within thirty (30) days after the Work is fully completed and the Contract fully performed and provided that the Contractor has submitted the following closeout documentation (in addition to any other documentation required elsewhere in the Contract Documents):
- 9.4.1.1 Evidence satisfactory to the Owner that all payrolls, material bills, and other indebtedness connected with the work have been paid,
- 9.4.1.2 An acceptable RELEASE OF LIENS,

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- 9.4.1.3 Copies of all applicable warranties,
- 9.4.1.4 As-built drawings,
- 9.4.1.5 Operations and Maintenance Manuals,
- 9.4.1.6 Instruction Manuals,
- 9.4.1.7 Consent of Surety to final payment.
- 9.4.1.8 The Owner reserves the right to retain payments, or parts thereof, fourts protection until the foregoing conditions have been complied with, defective work corrected and all unsatisfactory conditions remedied.

ARTICLE 10: PROTECTION OF PERSONS AND PROPERTY

- 10.1 The Contractor shall be responsible for initiating, meintaining, and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall take all reasonable precautions to prevent damage, injury or loss to: workers, persons nearby who may be affected, the Work, materials and equipment to be incorporated, and existing property at the site or adjacent thereto. The Contractor shall give notices and comply with applicable laws ordinances, rules regulations, and lawful orders of public authorities bearing on the safety of perions and property and their protection from injury, damage, or loss. The Contractor shall promptly remedy damage and loss to property at the site caused in whole or in partoy the Contractor, a Subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable.
- 10.2 The Contractor shall nonly the owner in the event any existing hazardous material such as lead, PCBs, asbestos, etc. is encountered on the project. The Owner will arrange with a qualified specialist for the identification, testing, removal, handling and protection against exposure or environmental pollution, to comply with applicable regulation laws and ordinances. The Contractor and Architect will not be required to participate in or to perform this operation. Upon completion of this work, the Owner will notify the Contractor and Architect in writing the area has been cleared and approved by the authorities in order for the work to proceed. The Contractor shall attach documentation from the authorities of said approve.
- 10.3



As required in the Hazardous Chemical Information Act of June 1984, all vendors supplying any materials that may be defined as hazardous, must provide Material Safety Data Sheets for those products. Any chemical product should be considered hazardous if it has a warning caution on the label relating to a potential physical or health hazard, if it is known to be present in the work place, and if employees may be exposed under normal conditions or in any foreseeable emergency situation. Material Safety Data Sheets <u>must</u> be provided <u>directly to the Owner</u> along with the shipping slips that include those products.

10.4

The Contractor shall certify to the Owner that materials incorporated into the Work are free of all asbestos. This certification may be in the form of Material Safety Data Sheet (MSDS) provided by the product manufacturer for the materials used in construction, as specified or as provided by the Contractor.

ARTICLE 11: INSURANCE AND BONDS

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- 11.1 The Contractor shall carry all insurance required by law, such as Unemployment Insurance, etc. The Contractor shall carry such insurance coverage as they desire on their own property such as a field office, storage sheds or other structures erected upon the project site that belong to them and for their own use. The Subcontractors involved with this project shall carry whatever insurance protection they consider necessary to cover the loss of any of their personal property, etc.
- 11.2 Upon being awarded the Contract, the Contractor shall obtain a minimum of we (2, copies of all required insurance certificates called for herein, and submit one (1) cop of each certificate, to the Owner, within 20 days of contract award.
- 11.3 Bodily Injury Liability and Property Damage Liability Insurance shall in addition to the coverage included herein, include coverage for injury to or destruction of any property arising out of the collapse of or structural injury to any building or structure due to demolition work and evidence of these coverages shall be filed with and approved by the Owner.
- 11.4 The Contractor's Property Damage Liability Insurance shall. In addition to the coverage noted herein, include coverage on all real and personal property in their care, custody and control damaged in any way by the Contractor of neir Subcontractors during the entire construction period on this project.
- 11.5 Builders Risk (including Standard Extended enverage Insurance) on the existing building during the entire construction period, shall no be provided by the Contractor under this contract. The Owner shall insure the existing building and all of its contents and all this new alteration work under this contract during entire construction period for the full insurable value of the entire work at the site. Note, however, that the Contractor and their Subcontractors shall be responsible or insuring building materials (installed and stored) and their tools and equipment whenever in use on the project, against fire damage, theft, vandalism, etc.
- 11.6 Certificates of the insurance company or companies stating the amount and type of coverage, terms of policies, etc., shall be furnished to the Owner, within 20 days of contract award.
- 11.7 The Contractor shall, at their own expense, (in addition to the above) carry the following form of insurance:

11.7.1 Contractor's Contractual Liability Insurance

Minimum coverage to be:

Bodily Injury

\$500,000

\$1,000,000 \$1,000,000

\$500,000 \$1,000,000 for each person for each occurrence aggregate

for each occurrence aggregate

11.7.2 <u>Contractor's Protective Liability Insurance</u>

Property Damage

Minimum coverage to be:

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	Bodily Injury	\$500,000 \$1,000,000 \$1,000,000	for each person for each occurrence aggregate
	Property Damage	\$500,000 \$500,000	for each occurrence aggregate
11.7.3	Automobile Liability Insurance		
	Minimum coverage to be:		
	Bodily Injury	\$1,000,000 \$1,000,000	for each person for each octurrence
	Property Damage	\$500,000	penacriden
11.7.4	Prime Contractor's and Subcontractors' policies shall include contingent and contractual liability coverage in the same minimum amounts as 11.7.1 above.		
11.7.5	Workmen's Compensation (including Employer's Liability):		
11.7.5.1	Minimum Limit on employer's liability to be as required by law.		
11.7.5.2	Minimum Limit for all employees working st one site.		
11.7.6	Certificates of Insurance must be med with the Owner <u>guaranteeing</u> fifteen (15) days prior notice of cancellation, non-renewal, or any change in coverages and limits of liability shown as included on certificates.		
11.7.7	Social Security Liability		
11.7.7.1	With respect to all persons at any time employed by or on the payroll of the Contractor or performing any wick for or on their behalf, or in connection with or arising out of the Contractor's business, the Contractor shall accept full and exclusive liability for the payment of any and all contributions or taxes or unemployment insurance, or old age retirement benefits pensions or annuities now or hereafter imposed by the Government of the United States and the State or political subdivision thereof, whether the same be measured by wages, salaries or other remuneration paid to such persons or otherwise.		
11.7.7.2	Upon request, the Contractor shall furnish Owner such information on payrolls or employment records as may be necessary to enable it to fully comply with the law imposing the aforesaid contributions or taxes.		
11.7.7.3	If the Owner is required by law to and does pay any and/or all of the aforesaid contributions or taxes, the Contractor shall forthwith reimburse the Owner for the entire amount so paid by the Owner.		

ARTICLE 12: UNCOVERING AND CORRECTION OF WORK

12.1 The Contractor shall promptly correct Work rejected by the Owner or failing to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed or completed, and shall correct any

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Work found to be not in accordance with the requirements of the Contract Documents within a period of two years from the date of Substantial Completion, or by terms of an applicable special warranty required by the Contract Documents. The provisions of this Article apply to work done by Subcontractors as well as to Work done by direct employees of the Contractor.

12.2 At any time during the progress of the work, or in any case where the nature of the deficts shall be such that it is not expedient to have them corrected, the Owner, at their poten, shall have the right to deduct such sum, or sums, of money from the amount of the contract as they consider justified to adjust the difference in value between the defective work and that required under contract including any damage to the structure.

ARTICLE 13: MISCELLANEOUS PROVISIONS

- 13.1 CUTTING AND PATCHING
- 13.1.1 The Contractor shall be responsible for all cutting and patching. The Contractor shall coordinate the work of the various trades involved.
- 13.2 DIMENSIONS
- 13.2.1 All dimensions shown shall be verified to the Contractor by actual measurements at the project site. Any discrepancies between the crawings and specifications and the existing conditions shall be referred to the Owner for adjustment before any work affected thereby has been performed.

13.3 LABORATORY TESTS

- 13.3.1 Any specified laboratory tests of material and finished articles to be incorporated in the work shall be made by bureaus, booratories or agencies approved by the Owner and reports of such tests shall be submitted to the Owner. The cost of the testing shall be paid for by the Contractor.
- 13.3.2 The Contractor shall furnish all sample materials required for these tests and shall deliver same without charge to the testing laboratory or other designated agency when and where directed by the Owner.

ARCHAEOLOGICAL EVIDENCE



13.4

Whenever, in the course of construction, any archaeological evidence is encountered on the surface or below the surface of the ground, the Contractor shall notify the authorities of the Delaware Archaeological Board and suspend work in the immediate area for a reasonable time to permit those authorities, or persons designated by them, to examine the area and ensure the proper removal of the archaeological evidence for suitable preservation in the State Museum.

- 13.5 GLASS REPLACEMENT AND CLEANING
- 13.5.1 The General Contractor shall replace without expense to the Owner all glass broken during the construction of the project. If job conditions warrant, at completion of the job the General Contractor shall have all glass cleaned and polished.

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13.6 WARRANTY

13.6.1 For a period of two (2) years from the date of substantial completion, as evidenced by the date of final acceptance of the work, the contractor warrants that work performed under this contract conforms to the contract requirements and is free of any defect of equipment, material or workmanship performed by the contractor or any of his subcontractors or suppliers. However, manufacturer's warranties and guarantees, if for a period in generation two (2) years, shall take precedence over the above warranties. The contractor shall remedy, at his own expense, any such failure to conform or any such defect. The protection of this warranty shall be included in the Contractor's Performance Bond.

ARTICLE 14: TERMINATION OF CONTRACT

- 14.1 If the Contractor defaults or persistently fails or neglects to carry out the Work in accordance with the Contract Documents or fails to perform a provision of the Centract, the Owner, after seven days written notice to the Contractor, may make goods uch deficiencies and may deduct the cost thereof from the payment thereor thereafter due the Contractor. Alternatively, at the Owner's option, and the Owner may terminate the Contract and take possession of the site and of all materials, equipment tools, and machinery thereon owned by the Contractor and may finish the Work by whatever method the Owner may deem expedient. If the costs of finishing the Work exceed any unpaid compensation due the Contractor, the Contractor shall pay the difference to the Owner.
- 14.2 "If the continuation of this Agreement is contingent upon the appropriation of adequate state, or federal funds, this Agreement may be terminated on the date beginning on the first fiscal year for which unds are not appropriated or at the exhaustion of the appropriation. The Owner may terminate this Agreement by providing written notice to the parties of such non-appropriation. All payment obligations of the Owner will cease upon the date of termination. Notwithstanding the foregoing, the Owner agrees that it will use its best efforts to obtain approval of necessary funds to continue the Agreement by taking appropriate action to request adequate funds to continue the Agreement."

END OF SECTION



EMPLOYEE DRUG TESTING REPORT FORM Period Ending:

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors who work on Large Public Works Contracts funded all or in part with public funds submit Testing Report Forms to the Owner no less than quarterly.

	4
Project Number:	
Project Name:	
Contractor/Subcontractor Name:	
Contractor/Subcontractor Address: _	
-	
Number of employees who worked on	the jobsite during the report period:
Number of employees subject to rando	m testing during the report period:
Number of Negative Results	Number of Positive Results
Action taken on employee(s) in respon	se to a fulled or positive random test:
Authorized Representative of Contract	or/Subcontractor:
	(typed or printed)
Authorized Representative of Contract	or/Subcontractor:
	(signature)
Date:	

EMPLOYEE DRUG TESTING REPORT OF POSITIVE RESULTS

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors who work on Large Public Works Contracts funded all or in part with public funds to notify the Owner in writing of a positive random drug test.

	4
Project Number:	
Project Name:	
Contractor/Subcontractor Name:	
Contractor/Subcontractor Address:	
Name of employee with positive test result:	
Last 4 digits of employee SSN:	
Date test results received:	
Action taken on employee in response to apositive test rest	ult:
Authorized Representative of Contractor/Subcontractor:	
	(typed or printed)
Authorized Kepresentative of Contractor/Subcontractor:	
	(signature)
Date:	

This form shall be sent by mail to the Owner within 24 hours of receipt of test results.

Enclose this test results form in a sealed envelope with the notation "Drug Testing Form – DO NOT OPEN" on the face thereof and place in a separate mailing envelope.

SECTION 01 11 00

SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. General requirements of Contract.
 - 4. Owner-furnished products.
 - 5. Access to site.
 - 6. Coordination with occupants.
 - 7. Work restrictions.

1.3 DEFINITIONS

- A. Permanent Enclosure: As determined by Architect, the condition at which roofing is insulated and weathertight; exercic walls are insulated and weathertight; all openings are closed with permanent construction and all exterior joints are sealed.
- 1.4 PROJECT NFORMATION
 - A. Project Identification: Fred Fifer III Middle School Roof Replacement

Project Location: 109 E Camden-Wyoming Ave., Camden, DE 19934.

er's Representative: Ken Starke

- . Address: 7 Front Street, PO Box 188, Wyoming, DE 19934
- C. Owner: Caesar Rodney School District
 - 1. Address: 7 Front Street, PO Box 188, Wyoming, DE 19934
- D. Architect: Tetra Tech Inc.
 - 1. Address: 240 Continental Drive, Suite 200, Newark, DE 19713

E. Building Code in Effect for Project: 2012 IBC

1.5 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
- B. Project consists of the replacement of the existing low slope roofing system and replacement of Thru-wall base flashing. as further described in the Construction Documents.
- C. Type of Contract: Project will be constructed under a single prime contract

1.6 GENERAL REQUIREMENTS OF CONTRACT

- A. Temporary Heating: Not required for this project.
- B. Temporary Ventilation: Not required for this project.
- C. Water Service: Water is not required at the Project sit

1.7 USE OF PREMISES

- A. Use of the Site: Confine operations at the snew the areas permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed. Conform to site rules and regulations affecting the work while engaged in project renovations.
 - 1. Keep driveways and entrance serving the premises clear and available for the Owner's use at all times. Do not use mese areas for parking or storage of materials, except as directed by the owner's Representative.
 - 2. Do not encumber the site with materials or equipment. Confine stockpiling of materials to the areas directed by the Owner's Representative. If storage is necessary, obtain and pay for such storage beyond the secure perimeter or off site.
 - 3. Lock automotive type vehicles, such as passenger cars and trucks and other mechanized or motorized construction equipment when parked and unattended to prevent unauthorized use. Do not leave such vehicle or equipment unattended with the motor naning or the ignition key in place.



Parking areas for employees of the Contractor shall be designated in the vicinity of the project, and it shall be the responsibility of the Contractor to require its personnel to park in this designated area and not any area, which may interfere with the Owner's normal operations.

- 5. Background checks will be completed on all employees performing the work on site. An advance notice of the employees must be submitted so that the background check can be completed prior to the start of the work.
- 6. Materials and toolboxes will be checked each time they are brought into and out of the secure perimeter and the facility. A list of each item in toolboxes, storage containers, etc., brought into the facility must be presented to the Owner's Representative at every occurrence. This list will be used as a check list when these items are removed from the

facility. Materials and tools can be secured in the Contractor-supplied storage boxes, which can be located adjacent to the work area.

- 7. The Contractor may be requested to leave the site immediately or not enter in the event of an emergency situation.
- 8. The Contractor will be briefed informally the first day of work as to applicable protocols.
- 9. It is mandatory that the Contractor not interact with the inmates. Any interaction is grounds for dismissal.
- 10. There are restrictions as to the number of times the Contractor may enter / exit the site. It is highly recommended that these occurrences be kept to a minimum. Persons entering and exiting and their tool boxes, materials, etc., will be searched and subjected to metan detection. The Contractor must expect and plan upon delays entering and exiting the facility.

1.8 PROTECTION OF PERSONS AND PROPERTY

- A. The Contractor shall provide ample and approved provisions for the protection of any area, which may be considered a hazard for any persons and vehicles operating in the area. All hazards such as trenches, stored material, work areas, etc., shall be matly barricaded and lighted.
 - 1. The safeguard measures for this project shall comply at a minimum, with all applicable sections of the Occupational, Health, and Safety Lct, with the latest addenda.

1.9 OWNER'S OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: Owner will occup, site and existing building during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not observe or obstruct walkways, corridors, or other occupied or used facilities with ut written permission from Owner and authorities having jurisdiction.
 - 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

1.10 WORK RESTRICTIONS

A. On Site Work Hours: Work shall be generally performed inside the existing building during normal business working hours of 7:00 a.m. to 3:00 p.m., Monday through Friday, except there indicated.

1.11 COORDINATION

A. General: The work of this Contract includes coordination of the entire work of the project, including preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of the demolition activity through the project closeout and warranty periods.

- B. Copies of governing regulations, which have a bearing on the performance of the work, can be obtained from or reviewed at the local, State, or Federal Agency responsible for the regulation in each case.
- C. Miscellaneous elements of information having a bearing on the performance of the work, such as weather forecasts and reports of general trade union negotiations; copies must be obtained by the Contractor through normal channels of information.
- D. Measurements: Verify dimensions of existing work. Any discrepancy between drawings and / or specifications and existing conditions shall be referred to the Architect in witing for adjustment before the work affected thereby has been performed. In the event of the Contractor's failure to give such notice, he will be held responsible for the results of any discrepancies and cost of rectifying same.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 25 00

CONTRACT MODIFICATIONS PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 MINOR CHANGES IN THE WORK

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

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: The Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will implue surplemental or revised Drawings and Specifications.
 - 1. Proposal Requests issues by the Architect are for information only. Do not consider them instruction either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change. Refer to procedures outlined in the *Supplementary Conditions* of the Contract.
- B. Contractor-Inhiated Proposals: If latent or unforeseen conditions require modifications to the Contract, Contractor may propose changes by submitting a request for a change to the Architect. Refer to Procedures outlined in the *Supplementary Conditions* of the Contract.

1.6 SHANGE ORDER PROCEDURES

On Owner's approval of a Proposal Request, the Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

1.7 CONSTRUCTION CHANGE DIRECTIVE

A. Work Change Directive: The Architect may issue a Work Change Directive on AIA Document G714. Work Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

- 1. Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

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END OF SECTION

2-CC

SECTION 01 31 00

PROJECT MANAGEMENT & COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative provisions for coordinating construction operations on the Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Coordination Drawings.
 - 3. Administrative and supervisory personnel.
 - 4. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility will be assigned to a specific contractor.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 01 Section "Closeout Procedures" for coordinating Contract closeout.

1.3 COORDINATION

- A. Coordination: Coordinate construction operations included in various Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operation, included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before on after its own installation.

Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.

Make adequate provisions to accommodate items scheduled for later installation.

If necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.

- 1. Prepare similar memoranda for the Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts

and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

- 1. Preparation of the Contractor's Construction Schedule.
- 2. Preparation of the Schedule of Values.
- 3. Installation and removal of temporary facilities and controls.
- 4. Delivery and processing of submittals.
- 5. Progress meetings.
- 6. Preinstallation conferences.
- 7. Project closeout activities.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials.

1.4 SUBMITTALS

A. Coordination Drawings: Prepare Coordination Drawings if limited space availability necessitates maximum utilization of space for efficient installation of different components or if coordination is required for installation of products and materials fabricated by separate entities.

- 1. Indicate relationship of components shown or separate Shop Drawings.
- 2. Indicate required installation sequences.
- B. Staff Names: Within 15 days of starting construction operations, submit a list of principal staff assignments, including superintendent and other personnel in attendance at the Project site. Identify individuals and their duties and reponsibilities; list addresses and telephone numbers, including home and office telephone numbers. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to the Project.
- 1.5 PROJECT MEETING
 - A. General: Schedule and conduct meetings and conferences at the Project site, unless otherwise indicated.
 - 1. Attenders: Inform participants and others involved, and individuals whose presence is equired of date and time of each meeting. Notify the Owner and the Architect of scheduled meeting dates and times.

Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees. Minutes: Record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including the Owner and the Architect, within 3 days of the meeting.

- B. Preconstruction Conference: Schedule a preconstruction conference before starting construction, at a time convenient to the Owner and the Architect, but no later than 15 days after execution of the Agreement. Hold the conference at the Project site or another convenient location. Conduct the meeting to review responsibilities and personnel assignments.
 - 1. Attendees: Authorized representatives of the Owner, the Architect, and their consultants; the Contractor and its superintendent; major subcontractors; manufacturers; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with the Project and authorized to conclude matters relating to the Work.

- 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing.
 - d. Designation of responsible personnel.
 - e. Procedures for processing field decisions and Change Orders.
 - f. Procedures for processing Applications for Payment.
 - g. Distribution of the Contract Documents.
 - h. Submittal procedures.
 - i. Preparation of Record Documents.
 - j. Use of the premises.
 - k. Responsibility for temporary facilities and controls.
 - 1. Parking availability.
 - m. Office, work, and storage areas.
 - n. Equipment deliveries and priorities.
 - o. First aid.
 - p. Security.
 - q. Progress cleaning.
 - r. Working hours.
- C. Progress Meetings: Conduct progress meetings at comi-monthly intervals. Coordinate dates of meetings with preparation of payment requests.
 - 1. Agenda: Review and correct or epploye minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of the Project
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to the Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do to. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - . Deview present and future needs of each entity present, including the following:
 - Interface requirements.
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.

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- 5) Off-site fabrication.
- 6) Access.
- 7) Site utilization.
- 8) Temporary facilities and controls.
- 9) Work hours.
- 10) Hazards and risks.
- 11) Progress cleaning.
- 12) Quality and work standards.
- 13) Change Orders.
- 14) Documentation of information for payment requests.

- 2. Reporting: Distribute minutes of the meeting to each party present and to parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.
 - a. Schedule Updating: Revise the Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

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END OF SECTION

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SECTION 01 31 20

PAYROLL REPORTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirement for schedules and reports required for proper performance of the Work, including:
 - 1. State of Delaware Payroll Reports.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 00 Section "Supplementary general Conditions A201-2007" specifies requirements for submittal of the Scheuule of Values.
 - 2. Division 01 Section "Project Management & Coordination" specifies requirements for submittal and distribution of meeting and conference minutes.

1.3 SUBMITTAL PROCEDURES

- A. Coordination: Coordinate preparation and processing of schedules and reports with performance of other construction activities.
- 1.4 PAYROLL REPORTS
 - A. State of Delaware Dayroll Reports: As required by the State of Delaware, Section 6960, Title 29, of the Delaware Code, payroll wages shall be reported weekly to the Delaware Department of Labor, Division of Industrial Affairs, 4425 North Market Street, Wilmington, DE19802, phone 302-761-8200. Forms shall be available at the above address. A sample sopy of the form is attached under contract forms, State of Delaware Payroll Report.

PAPT 2 PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION



SECTION 01 32 00

CONSTRUCTION PROGRESS

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementar Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Preliminary Construction Schedule.
 - 2. Contractor's Construction Schedule.
 - 3. Submittals Schedule.
 - 4. Daily construction reports.
 - 5. Material location reports.
 - 6. Field condition reports.
 - 7. Construction photographs.
- B. Related Sections include the following.
 - 1. Division 00 Section "Supplementary General Conditions A201-2007" for submitting the Schedule of Values.
 - 2. Division 01 Section "Project Management and Coordination" for submitting and distributing meeting and conference minutes.
 - 3. Division 01 Section "Submittal Procedures" for submitting schedules and reports.
 - 4. Division 0. Section "Closeout Procedures" for submitting photographic negatives as Project R cord locuments at Project closeout.

1.3 DEFINITIONS

A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.



Critical activities are activities on the critical path. They must start and finish on the planned early start and finish times.

- 2. Predecessor activity is an activity that must be completed before a given activity can be started.
- B. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.
- C. Critical Path: The longest continuous chain of activities through the network schedule that establishes the minimum overall Project duration and contains no float.

- D. Event: The starting or ending point of an activity.
- E. Float: The measure of leeway in starting and completing an activity.
 - 1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
 - 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the following activity.
 - 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.
- F. Major Area: A story of construction, a separate building, or a similar significant construction element.
- G. Milestone: A key or critical point in time for reference or measurement.
- H. Network Diagram: A graphic diagram of a network schedule, showing activities and activity relationships.
 - 1.4 SUBMITTALS
- A. Qualification Data: For firms and persons specified in "Quality Assurance" Article and inhouse scheduling personnel to demonstrate then capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- B. Submittals Schedule: Submit three topies of schedule. Arrange the following information in a tabular format:
 - 1. Scheduled date for first submittal.
 - 2. Specification Section number and title.
 - 3. Submittal category (action or informational).
 - 4. Name of ubcontractor.
 - 5. Description of the Work covered.
- C. Contractor's Construction Schedule: Submit three printed copies of initial schedule, one a reproducible print and one a blue- or black-line print, large enough to show entire schedule for entire construction period.

D CPM Reports: Concurrent with CPM schedule, submit three printed copies of each of the fonowing computer-generated reports. Format for each activity in reports shall contain activity number, activity description, original duration, remaining duration, early start date, early finish date, late start date, late finish date, and total float.

- 1. Activity Report: List of all activities sorted by activity number and then early start date, or actual start date if known.
- 2. Logic Report: List of preceding and succeeding activities for all activities, sorted in ascending order by activity number and then early start date, or actual start date if known.
- 3. Total Float Report: List of all activities sorted in ascending order of total float.
- E. Daily Construction Reports: Submit two copies at weekly intervals.

- F. Material Location Reports: Submit two copies at weekly intervals.
- G. Field Condition Reports: Submit two copies at weekly intervals.
 - 1.5 QUALITY ASSURANCE
- A. Scheduling Consultant Qualifications: An experienced specialist in CPM scheduling and reporting.
 - 1.6 COORDINATION
- A. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate contractor
- B. Coordinate Contractor's Construction Schedule with the Schedule of Values, list of subcontracts, Submittals Schedule, progress reports, payment requerts, and other required schedules and reports.
 - 1. Secure time commitments for performing critical element of the Work from parties involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

2.1 SUBMITTALS SCHEDULE

- A. Preparation: Submit a schedule of submit als, arranged in chronological order by dates required by construction schedule. Include time required for review, resubmittal, ordering, manufacturing, fabrication, and delivery when establishing dates.
 - 1. Coordinate Subratules Schedule with list of subcontracts, the Schedule of Values, and Contractor's Construction Schedule.
 - 2. Final Subrattan Submit concurrently with the first complete submittal of Contractor's Construction Sciedule.
- 2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (CPM SCHEDULE)
 - A. CPM Schedule: Prepare Contractor's Construction Schedule using a CPM network analysis theram.



Develop network diagram in sufficient time to submit CPM schedule so it can be accepted for use no later than 15 days after date established for the Notice to Proceed. Establish procedures for monitoring and updating CPM schedule and for reporting progress. Coordinate procedures with progress meeting and payment request dates. Use "one workday" as the unit of time.

- B. CPM Schedule Preparation: Prepare a list of all activities required to complete the Work. Using the preliminary network diagram, prepare a skeleton network to identify probable critical paths.
 - 1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Include estimated time frames for the following activities:

- a. Preparation and processing of submittals.
- b. Purchase of materials.
- c. Delivery.
- d. Fabrication.
- e. Installation.
- 2. Processing: Process data to produce output data or a computer-drawn, time-scaled network. Revise data, reorganize activity sequences, and reproduce as often as necessary to produce the CPM schedule within the limitations of the Contract Time.
- 3. Format: Mark the critical path. Locate the critical path near center of network; heate paths with most float near the edges.
 - a. Subnetworks on separate sheets are permissible for activities clearly off the critical path.

2.3 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
 - 1. List of subcontractors at Project site.
 - 2. List of separate contractors at Project site.
 - 3. Approximate count of personnel at Project site
 - 4. High and low temperatures and general yeather conditions.
 - 5. Accidents.
 - 6. Meetings and significant decisions.
 - 7. Unusual events (refer to special reports).
 - 8. Stoppages, delays, shortages, and passes
 - 9. Meter readings and similar recordings.
 - 10. Emergency procedures,
 - 11. Orders and requests of uthor lies having jurisdiction.
 - 12. Change Orders received and implemented.
 - 13. Construction Change Directives received.
 - 14. Services connected and disconnected.
 - 15. Equipment or system tests and startups.
 - 16. Partial Completions and occupancies.
 - 17. Subcantial Completions authorized.
- B. Material Location Reports: At monthly intervals, prepare a comprehensive list of materials delivered to and stored at Project site. List shall be cumulative, showing materials previously experted flus items recently delivered. Include with list a statement of progress on and delivery dates for materials or items of equipment fabricated or stored away from Project site.

. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare a detailed report. Submit with a request for information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 - EXECUTION (not used)

END OF SECTION

SECTION 01 33 00

SUBMITTAL PROCEDURES

PART 1 - GENERAL

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submitta
- B. Related Sections include the following:
 - 1. Division 01 Section "Project Management and Coerdmanon" for submitting Coordination Drawings.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information that requires the Architect's responsive action.
- B. Informational Submittals: Written information that does not require the Architect's approval. Submittals may be rejected for not complying with requirements.

1.4 SUBMITTAL PROCEDURES

- A. General: Architect will provide electronic copies of CADD drawings of the Contract Drawings for Contractor's use in preparing submittals.
 - 1. Upon request contractor shall sign a release form provided by the Architect and payment of the processing fee for each consultant's CADD files. Only plan drawings and backgrounds to be provided.
 - Coordination: Coordinate preparation and processing of submittals with performance of sonstruction activities.
 - Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that requires sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. The Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

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- C. Submittals Schedule: Comply with requirements in Division 1 Section "Construction Progress Documentation" for list of submittals and time requirements for scheduled performance of related construction activities.
- D. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on the Architect's receipt of submittal.
 - 1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The Architect will advise the Contractor when a submittal being processed must be a layed for coordination.
 - 2. Concurrent Review: Where concurrent review of submittals by the Architect's consultants, the Owner, or other parties is required, allow 21 days for initial review of each submittal.
- E. Identification: Place a permanent label or title block on each submittal for identification.
 - 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 - 2. Provide a space approximately 4 by 5 inches (100 by 25 spb) on label or beside title block to record the Contractor's review and approval and bings and action taken by the Architect.
 - 3. Include the following information on label for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name and address of Archite
 - d. Name and address of Contractor.
 - e. Name and address of subcontractor.
 - f. Name and address of supplier.
 - g. Name of manufacturer
 - h. Number article of appropriate Specification Section.
 - i. Drawing number and detail references, as appropriate.
- F. Deviations: Highlight, encircle, or otherwise identify deviations from the Contract Documents on submittals.
- G. Additional Copies: Unless additional copies are required for final submittal, and unless the Archiect observes noncompliance with provisions of the Contract Documents, initial submittal may serve as final submittal.



Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to the Architect.

Additional copies submitted for maintenance manuals will not be marked with action taken and will be returned.

- H. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. The Architect will return submittals received from sources other than the Contractor.
 - 1. On an attached separate sheet, prepared on the Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by the Architect on previous submittals, and deviations from requirements of the Contract Documents,

including minor variations and limitations. Include the same label information as the related submittal.

- 2. Include the Contractor's certification stating that information submitted complies with requirements of the Contract Documents.
- I. Use for Construction: Use only final submittals with mark indicating action taken by the Architect in connection with construction.

PART 2 - PRODUCTS

- 2.1 ACTION SUBMITTALS
 - General: Prepare and submit Action Submittals required by individual Specification Sections. A.
 - Number of Copies: Submit five copies of each submittal, unless otherwise indicated. 1. The Architect will return two copies. Mark up and retain the turned copy as a Project Record Document.
 - Product Data: Collect information into a single submitte ch element of construction and B. fc type of product or equipment.
 - If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data. 1.
 - Mark each copy of each submittal to show which products and options are applicable. 2.
 - Include the following information, a applicable: 3.
 - Manufacturer's written recommendations. a.
 - b.
 - Manufacturer's product specifications. Manufacturer's installation instructions. c.
 - Standard color charts. d.
 - Manufacture s catalog cuts. e.
 - Wiring diagrams showing factory-installed wiring. f.
 - Printed performance curves. g.
 - Operational range diagrams. h.
 - Mill reports.

m.

tandard product operating and maintenance manuals.

- Compliance with recognized trade association standards.
- Compliance with recognized testing agency standards.
 - Application of testing agency labels and seals.
 - Notation of coordination requirements.

hop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.

- 1. Preparation: Include the following information, as applicable:
 - Dimensions. a.
 - b. Identification of products.
 - Fabrication and installation drawings. c.
 - Roughing-in and setting diagrams. d.

- e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.
- f. Shop work manufacturing instructions.
- g. Templates and patterns.
- h. Schedules.
- i. Design calculations.
- j. Compliance with specified standards.
- k. Notation of coordination requirements.
- 1. Notation of dimensions established by field measurement.
- 2. Number of Copies: Submit one correctable, translucent, reproducible print and six blueor black-line print of each submittal. The Architect will return the reproducible print.
- D. Samples: Prepare physical units of materials or products, including the following
 - 1. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from the same material to be used for the Work, cured and Enisted in manner specified, and physically identical with the product proposed for the, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fab ic aced components; small cuts or containers of materials; complete units of reputively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
 - 2. Submit Samples for review of kind color pattern, and texture for a final check of these characteristics with other elements and for a comparison of these characteristics between final submittal and actual component as delivered and installed.
 - a. If variation in color, pattern, texture, or other characteristic is inherent in the product represented by a Sample, submit at least two sets of paired units that show approximatelimits of the variations.
 b. Refer to individual Specification Sections for requirements for Samples that
 - b. Refer to ndividual Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation and similar construction characteristics.
 - 3. Dispession: Maintain sets of approved Samples at Project site, available for qualitycontrol comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.



Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.

Product Schedule or List: Prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

- 1. Type of product. Include unique identifier for each product.
- 2. Number and name of room or space.
- 3. Location within room or space.
- F. Submittals Schedule: Comply with requirements in Division 1 Section "Construction Progress Documentation."

- G. Application for Payment: Comply with requirements in Division 1 Section "Payment Procedures."
- H. Schedule of Values: Comply with requirements in Division 1 Section "Payment Procedures."

2.2 INFORMATIONAL SUBMITTALS

- A. General: Prepare and submit Informational Submittals required by other Specification Sections.
 - 1. Number of Copies: Submit one copies of each submittal, unless otherwise indicated. The Architect will not return copies.
 - 2. Certificates and Certifications: Provide a notarized statement that include signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - 3. Test and Inspection Reports: Comply with requirements in Division 1 Section "Quality Requirements."
- B. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- C. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements.
- D. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements. Submit record of Welding Procedure Specification (WPS) and Procedure Qualification Record (PCR) or AWS forms. Include names of firms and personnel certified.
- E. Installer Certificates: Prepare written statements on manufacturer's letterhead certifying that Installer complies with requirements and, where required, is authorized for this specific Project.
- F. Manufacturer Cartificates: Prepare written statements on manufacturer's letterhead certifying that manufactures complies with requirements. Include evidence of manufacturing experience where required.
- G. Material Certificates: Prepare written statements on manufacturer's letterhead certifying that material complies with requirements.
- He Material Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements.
- I. Preconstruction Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements.
- J. Compatibility Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.

- K. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements.
- L. Product Test Reports: Prepare written reports indicating current product produced by manufacturer complies with requirements. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- M. Research/Evaluation Reports: Prepare written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - 1. Name of evaluation organization.
 - 2. Date of evaluation.
 - 3. Time period when report is in effect.
 - 4. Product and manufacturers' names.
 - 5. Description of product.
 - 6. Test procedures and results.
 - 7. Limitations of use.
- N. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment. Couply with requirements in Division 1 Section "Closeout Procedures".
- O. Design Data: Prepare written and graphic information, including, but not limited to, performance and design criteria list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include peganumbers.
- P. Manufacturer's Inductions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer include the following, as applicable:
 - . Preparation of substrates.
 - Required substrate tolerances.
 - Sequence of installation or erection.
 - Required installation tolerances.
 - Required adjustments.
 - Recommendations for cleaning and protection.
- Q. Manufacturer's Field Reports: Prepare written information documenting factory-authorized service representative's tests and inspections. Include the following, as applicable:
 - 1. Name, address, and telephone number of factory-authorized service representative making report.
 - 2. Statement on condition of substrates and their acceptability for installation of product.
 - 3. Statement that products at Project site comply with requirements.

- 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
- 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
- 6. Statement whether conditions, products, and installation will affect warranty.
- 7. Other required items indicated in individual Specification Sections.
- R. Insurance Certificates and Bonds: Prepare written information indicating current status of insurance or bonding coverage. Include name of entity covered by insurance or bond, limit of coverage, amounts of deductibles, if any, and term of the coverage.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Review each submittal and check for compliance with the Contract Decudents. Note corrections and field dimensions. Mark with approval stamp before submitting to the Architect.
- B. Approval Stamp: Stamp each submittal with a uniform, appendistamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of the Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. General: The Architect will not review submittals that do not bear the Contractor's approval stamp and will return them without action
- B. Action Submittals: The Archiect will review each submittal, make marks to indicate corrections or modifications required, and return it. The Architect will stamp each submittal with an action stamp and vill mark stamp appropriately to indicate action taken, as follows:
- C. Informational Submittals: The Architect will review each submittal and will not return it, or will reject and return it if it does not comply with requirements. The Architect will forward each submittal to appropriate party.
- D. Substituals not required by the Contract Documents will not be reviewed and may be discarded.



END OF SECTION



SECTION 01 33 01

CADD RELEASE

Use and Indemnification Agreement - INSTRUCTIONS

USE AND INDEMNIFICATION AGREEMENT

Please be aware that Tetra Tech charges contractor(s) for electronic files (this applies to files in AutoCAD (or similar) format).

PDF's, which are simply an electronic scan of the drawings, do not require the use of the indemnification form; however we charge \$50 per PDF to cover our expenses. Tetra Tech must receive the contractor's check prior to sending PDF's.

For AutoCAD type files, the cost is \$100. The Use and Indemnification Agreement is to be signed by the Prime Contractor. Should a subcontractor, such as a steel fabricator, ductwork detailer, desire electronic files, they would need to pursue this request through their Prime Contractor who has the contract with the Client.

Due to the inherent value to the company of our typical details and our other standards, we limit the drawings types that we will rneas via this indemnification form to plan type drawings. Typical detail sheets are not to be released in the form of an electronic AutoCAD drawing file.

In addition, our internal individual Base Plans will not be released; we limit what the contractor can purchase to the actual individual contract drawings.

After the Prime Contractor has determined the number of drawings that they will need, fill out the following two pages. The second page of the form, marked Use and Indemnification Agreement – Business Office, needs to be sent to the Business Office with the Contractor check made out to Tetra Tech. We will not release electronic files until we receive this form and the check.





Use and Indemnification Agreement

240 Continental Drive, Suite 200 Newark, Delaware 19713 Tel. (302) 738-7551 Fax (302) 454-5980

..... Re: Fred Fifer III Middle School Roof Replacement - Caesar Rodney School District

Tt Project No. 200-163183-17001

(hereinafter the "Contractor"), acknowledges that it has requested certain electronic files and/or media of the Whereas. Drawings and/or Specifications for the above-referenced Project which are the property of Tetra Tech Engineers, Architects & Landscape Architects, P.C. d/b/a Tetra Tech Architects & Engineers (hereinafter "Tetra Tech").

Whereas, Contractor further acknowledges all requests for electronic files require a pre-payment of \$100, regardless of the number of files requested, prior to receiving said files from Tetra Tech.

Now, therefore, Contractor hereby warrants and covenants that it will abide by the following provisions:

A. Indemnification

- In consideration of permission to use electronic files or media, including but not limited to electronic files of drawings created by use of computer, 1. for the Work of this Project only, and which the Contractor has requested from Tetra Tech, the Contractor, to the fullest extent permitted by law, hereby agrees to indemnify and hold harmless Tetra Tech, its agents, employees, officers, directors and consultants from and against any and all claims, damages, losses and expenses, including any attorneys' fees, arising out of, resulting from a in mection with any and all use of said electronic materials, but only if such claim, damage, loss or expense is caused in whole or in part by the Contractor, its employees, agents, officers, directors, or any other party directly or indirectly employed by any of them or any party whise acts any of them may be liable, regardless of whether or not it is caused by a party indemnified hereunder. Such obligation shall no be construed to reduce or negate any other right or obligation of indemnification that would otherwise exist as to any party hereto. This had an uncertain shall not apply to the liability of the indemnitee arising out of its own negligence. This indemnification shall not be nited in any way because of any limitation on damages, compensation or benefits under any statute, law or governmental requirement of any sort.
- The following shall be included within the definition of "expenses" herei 2 agents, officers and directors at their usual and customary billing rates as well as all out-of-pocket expenses such as long-distance telephone calls, costs of reproduction, expenses of travel and lodging; (b) all costs and expenses of experts, consultants, engineers, and any other party retained by the indemnified party reasonably required to defend the claim; (c) Il costs, including reasonable attorneys' fees, incurred in bringing any action to enforce the provisions of this indemnification. The following sna be included within the definition of "action" herein: any case brought in any state or federal court, any arbitration, any mediation, and a y similar forum for resolution of any dispute herein, and shall also include any counterclaim or third-party action in any such forum

Use and Compatibility

- Tetra Tech' instruments of service are furnished without guarantee of compatibility with the Contractor's software or hardware, and Tetra Tech' 1 sole responsibility for the electronic med vi to hundsh a replacement for defective disks within thirty (30) days after delivery to Contractor.
- Because data stored on electronic media c n deteriorate undetected or be modified without Tetra Tech' knowledge, the Contractor agrees that Tetra 2. completeness or correctness of the electronic media after an acceptance period of thirty (30) days after delivery Tech will not be held liable for the of the electronic files. Tet a Tech does confirm the accuracy of the final sealed hard copy drawings, previously submitted pursuant to the Prime Agreement for this Project.
- re submitted to the Contractor for a thirty (30) day acceptance period. During this period, the Contractor may review and 3. The electronic file examine these files, and any errors detected during this time will be corrected by Tetra Tech. Any changes requested after the acceptance period will be considered additional services to be performed on a time and materials basis, at Tetra Tech's standard cost plus terms and conditions.
- Tetra Tch trains where where the printed hard copy Drawings and Specifications and the electronic media. The Contractor is granted a license 4 for their us, but only in the operation and maintenance of the Project. Use of these materials for modification, extension, or expansion of this any other project, unless under the direction of Tetra Tech, shall be without liability to Tetra Tech and Tetra Tech's consultants.

IN WITNESS WHEREOF:

Contractor:	
Signed name:	
Printed Name:	
Title:	
Date:	



240 Continental Drive, Suite 200 Newark, Delaware 19713 Tel. (302) 738-7551 Fax (302) 454-5980

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Use and Indemnification Agreement – Business Office

Electronic Drawing Files



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SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 **RELATED DOCUMENTS**

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

1.2 **SUMMARY**

- This Section includes requirements for temporary facilities and controls, including temporary A. utilities, support facilities, and security and protection facilities.
- Temporary utilities include, but are not limited to, the following B.
 - 1. Sewers and drainage.
 - 2. Water service and distribution.
 - Sanitary facilities, including toilets, wash facilities, and drinking-water facilities. 3.
 - Heating and cooling facilities. 4.
 - Ventilation. 5.
 - Electric power service. 6.
 - 7. Lighting.
 - Telephone service. 8.
- Support facilities include, but are not limited to, the following: C.
 - 1.
 - Temporary roads and paving. Dewatering facilities and drains. 2.
 - 3. Project identification and temporary signs.
 - Waste disposal incluities. 4.
 - 5. Field offic
 - Storage and fabrication sheds. 6.
 - 7. Lifts and hoists.

8.

- Temporary elevator usage.
- Temporary stairs.
- 10. Construction aids and miscellaneous services and facilities.

ecurity and protection facilities include, but are not limited to, the following:

- 1. Environmental protection.
- 2. Storm water control.
- 3. Tree and plant protection.
- Pest control. 4.
- Site enclosure fence. 5.
- 6. Security enclosure and lockup.
- Barricades, warning signs, and lights. 7.
- Covered walkways. 8.
- Temporary enclosures. 9.

- 10. Temporary partitions.
- 11. Fire protection.
- E. Related Sections include the following:
 - 1. Division 01 Section "Submittal Procedures" for procedures for submitting copies of implementation and termination schedule and utility reports.
- 1.3 USE CHARGES
 - A. Temporary water and electric will be provided by the Owner.

1.4 QUALITY ASSURANCE

- A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
 - Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
 Electric Service: Comply with NECA, NEMA, and U-standards and regulations for
 - 2. Electric Service: Comply with NECA, NEMA, and U standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required confic tions and permits.

1.5 PROJECT CONDITIONS

- A. Temporary Utilities: At earliest feasible time, when acceptable to the Owner, change over from use of temporary service to use of permanent service.
 - 1. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for orieration, maintenance, and protection of each permanent service during its use as a construction facility before the Owner's acceptance, regardless of previously assigned responsibilities.
- B. Conditions of Use: The following conditions apply to use of temporary services and facilities by all parties engaged in the Work:

Reep temporary services and facilities clean and neat. Relocate temporary services and facilities as required by progress of the Work.

PART 2 PRODUCTS

2.1 MATERIALS

A. General: Provide new materials. Undamaged, previously used materials in serviceable condition may be used if approved by the Architect. Provide materials suitable for use intended.

2.2 EQUIPMENT

A. General: Provide equipment suitable for use intended.

- B. Fire Extinguishers: Hand carried, portable, UL rated. Provide class and extinguishing agent as indicated or a combination of extinguishers of NFPA-recommended classes for exposures.
 - 1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by location and class of fire exposure.
- C. Self-Contained Toilet Units: Single-occupant units of chemical, aerated recirculation or combustion type; vented; fully enclosed with a glass-fiber-reinforced polyester shell or similar nonabsorbent material.
- D. Heating Equipment: Unless the Owner authorizes use of permanent heating system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
 - 1. Use of gasoline-burning space heaters, open-flame heaters, or aniamancer-type heating units is prohibited.
 - 2. Heating Units: Listed and labeled, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use for type of full being consumed.
- E. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
- F. Power Distribution System Circuits: Where per pitch and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V a., 20-A rating, and lighting circuits may be nonmetallic sheathed cable.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERA

- A. Locate facilities where they will serve the Project adequately and result in minimum interference with performance of the work. Relocate and modify facilities as required.
- B. Provide each facility really for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.
- 3.2 TEMPORARY UTILITY INSTALLATION

Water Service: Use of the Owner's existing water service facilities will be permitted, as long as incident are cleaned and maintained in a condition acceptable to the Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

- 1. Provide rubber hoses as necessary to serve the Project site.
- 2. Where installations below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize water damage. Drain accumulated water promptly from pans.
- B. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking-water fixtures. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.

- 1. Disposable Supplies: Provide toilet tissue, paper towels, paper cups, and similar disposable materials for each facility. Maintain adequate supply. Provide covered waste containers for disposal of used material.
- 2. Toilets: Use of the Owner's existing toilet facilities will not be permitted, as long as facilities are cleaned and maintained in a condition acceptable to the Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- C. Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment from that specified that will not have a harmful effect on completed installations or elements being installed.
 - 1. Maintain a minimum temperature of 50 deg F (10 deg C) in permanenti, enclosed portions of building for normal construction activities, and 65 deg V(18.3 leg C) for finishing activities and areas where finished Work has been installed.
- D. Electric Power Service: Use of the Owner's existing electric power service will be permitted, as long as equipment is maintained in a condition acceptable to the Owner
- E. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
 - 1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
- F. Telephone Service:
 - 1. Provide a portable cellular torepriore for superintendent's use in making and receiving telephone calls when away from field office.
- G. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Containerize and clearly label hazardous, dangerous, or unsanitary waste materian separately from other waste.
 - 1. If required by supporties having jurisdiction, provide separate containers, clearly labeled, for each type of vaste material to be deposited.
- 3.3 OPERATION TERMINATION, AND REMOVAL
 - A. Termination and Removal: Remove each temporary facility when need for its service has ended, when n has been replaced by authorized use of a permanent facility, or no later than Substantial completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - . Materials and facilities that constitute temporary facilities are the property of the Contractor. The Owner reserves right to take possession of the Project identification signs.
 - 2. At Substantial Completion, clean and renovate permanent facilities used during construction period. Comply with final cleaning requirements in Division 1 Section "Closeout Procedures."

END OF SECTION

SECTION 01 63 10

SUBSTITUTIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Requests for substitution must be made ten days prior to bid. This specification section appres to extra-ordinary conditions that could not be requested during the bidding perior.
- B. Drawings and general provisions of the Contract, including General and Supplemental Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for handling requests for substitutions made after award of the Contract, but no later span 50 days after commencement of the Work.
- B. Related Sections: The following Divisions contain requirements that relate to this Section:
 - 1. Division 01 specifies the applicability of industry standards to products specified.
 - 2. Division 01 specifies requirements for submitting the Contractor's Construction Schedule and the Submittal Schedule.
 - 3. Division 01 specifies requirements giverning the Contractor's selection of products and product options.

1.3 DEFINITIONS

- A. Definitions in this Article to not change or modify the meaning of other terms used in the Contract Documents.
- B. Substitutions: Changel in products, materials, equipment, and methods of construction required by the Contract Decuments proposed by the Contractor after award of the Contract are considered once requests for substitutions. The following are not considered to be requests for substitutions:



Substitutions requested during the bidding period, and accepted by Addendum prior to award of the Contract, are included in the Contract Documents and are not subject to requirements specified in this Section for substitutions.

Revisions to the Contract Documents requested by the Owner or Architect. Specified options of products and construction methods included in the Contract Documents.

4. The Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

1.4 SUBMITTALS

A. Substitution Request Submittal: Substitution requests will only be considered during the bidding period. Substitutions will not be considered after the bids are accepted.

- 1. Submit three copies of each request for substitution for consideration. Submit requests in the form and according to procedures required for change-order proposals. The Contractor is solely responsible for obtaining the required forms to submit before the stated time period expires.
- 2. Identify the product or the fabrication or installation method to be replaced in each request. Include related Specification Section and Drawing numbers.
- 3. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:
 - a. Coordination information, including a list of changes or modifications needed other parts of the Work and to construction performed by the Owner and set arate contractors that will be necessary to accommodate the proposed substitution.
 - b. A detailed comparison of significant qualities of the proposed substitution with those of the Work specified. Significant qualities may include elements, such as performance, weight, size, durability, and visual effect.
 - c. Product Data, including Drawings and descriptions of products and fabrication and installation procedures.
 - d. Samples, where applicable or requested.
 - e. A statement indicating the substitution's effect on the Contractor's Construction Schedule compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution or over all Contract Time.
 - f. Cost information, including a proposal on the net change, if any in the Contract Sum.
 - g. The Contractor's certification that he proposed substitution conforms to requirements in the Contract Documents in every respect and is appropriate for the applications indicated.
 - h. The Contractor's waiver of rights to additional payment or time that may subsequently become recessivy because of the failure of the substitution to perform adequately.
- 4. Architect's Action: If necessary, the Architect will request additional information or documentation for evaluation within one week of receipt of a request for substitution. The Architect will notify the Contractor of acceptance or rejection of the substitution within two weeks of receipt of the request, or one week of receipt of additional information or documentation, whichever is later.
 - a. Use the product specified if the Architect cannot make a decision on the use of a proposed substitute within the time allocated.

2.1 SUBSTITUTIONS

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Conditions: The Architect will receive and consider the Contractor's request for substitution when the following conditions are satisfied, as determined by the Architect. If the following conditions are not satisfied, the Architect will return the requests without action except to record noncompliance with these requirements.

- 1. Revisions to the Contract Documents are not required.
- 2. Proposed changes are in keeping with the general intent of the Contract Documents.
- 3. The request is timely, fully documented, and properly submitted.
- 4. The specified product or method of construction cannot be provided within the Contract Time. The Architect will not consider the request if the product or method cannot be

PART 2

provided as a result of failure to pursue the Work promptly or coordinate activities properly.

- 5. The requested substitution offers the Owner a substantial advantage, in cost, time, energy conservation, or other considerations, after deducting additional responsibilities the Owner must assume. The Owner's additional responsibilities may include compensation to the Architect for redesign and evaluation services, increased cost of other construction by the Owner, and similar considerations.
- 6. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
- 7. The specified product or method of construction cannot be provided in a manner that is compatible with other materials and where the Contractor certifies that the substitution will overcome the incompatibility.
- 8. The specified product or method of construction cannot be coordinated with other materials and where the Contractor certifies that the proposed substitution can be coordinated.
- B. The Contractor's submittal and the Architect's acceptance of Shop Dravings, Product Data, or Samples for construction activities not complying with the Contract Documents do not constitute an acceptable or valid request for substitution, wor lo use, constitute approval.

PART 3 - EXECUTION (Not Applicable)



SECTION 01 73 29

CUTTING & PATCHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes procedural requirements for cutting and patching.
- B. Related Sections include the following:
 - 1. Divisions 02 through 07 Sections for specific Equirements and limitations applicable to cutting and patching individual parts of the Work.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other Work.
- B. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other Work

1.4 QUALITY ASSURANCE

- A. Structural Examents: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
- B. operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that result in increased neintenance or decreased operational life or safety. Operating elements include the following: List below is an example only. Revise to suit Project's operating systems. With advice of counsel, delete below if Architect's approval is not required. If list is deleted, delete option in paragraph above.
 - 1. Fire-suppression systems.
 - 2. Mechanical systems piping and ducts.
 - 3. Control systems.
 - 4. Communication systems.
 - 5. Conveying systems.

- 6. Electrical wiring systems.
- C. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- D. Cutting and Patching Conference: Before proceeding, meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas objectential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

PART 2 - PRODUCTS

2.1 MATERIALS

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

PART 3 - EXECUTION

- 3.1 EXAMINATION
 - A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
 - . Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.

Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Temporary Support: Provide temporary support of Work to be cut.
- B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

- C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.

3.3 PERFORMANCE

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



Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.

Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.

- a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
- b. Restore damaged pipe covering to its original condition.
- 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even

surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

- a. Where patching occurs in a painted surface, apply primer and intermediate paint coats over the patch and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
- 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
- 5. Exterior Building Enclosure: Patch components in a manner that restore enclosure to a weathertight condition.
- D. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION

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SECTION 01 74 19

CONSTRUCTION WASTE MANAGEMENT

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes: Administrative and procedural requirements for construction waste management activities.

1.2 DEFINITIONS

- A. Construction, Demolition, and Land clearing (CDL) Waste: Includenall non-hazardous solid wastes resulting from construction, remodeling, alterations, lepair, demolition and land clearing. Includes material that is recycled, reused, salvaged or discosed as garbage.
- B. Salvage: Recovery of materials for on-site reuse, sale or tonaion to a third party.
- C. Reuse: Making use of a material without altering it for Materials can be reused on-site or reused on other projects off-site. Examples include, but are not limited to the following: Crushing or grinding of concrete for use as sto-base material. Chipping of land clearing debris for use as mulch.
- D. Recycling: The process of sorting, clearing, and reconstituting materials for the purpose of using the material in the manufacture of a new product.
- E. Source-Separated CDL Recreting: The process of separating recyclable materials in separate containers as they are generated on the job-site. The separated materials are hauled directly to a recycling liquity or transfer station.
- F. Co-mingled CDL Recording: The process of collecting mixed recyclable materials in one container on-site. The container is taken to a material recovery facility where materials are separated for recycling.
- G. Approved kecycling Facility: Any of the following:



facility that can legally accept CDL waste materials for the purpose of processing the materials into an altered form for the manufacture of a new product.

Material Recovery Facility: A general term used to describe a waste-sorting facility. Mechanical, hand-separation, or a combination of both procedures, are used to recover recyclable materials.

1.3 SUBMITTALS

- A. Contractor shall develop a Waste Management Plan: Submit 3 copies of plan within 14 days of date established for the **Notice to Proceed**.
- B. Contractor shall provide Waste Management Report: Concurrent with each Application for Payment, submit **3** copies of report.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Divert a minimum of **75%** CDL waste, by weight, from the landfill by one, or a combination of the following activities:
 - 1. Salvage
 - 2. Reuse
 - 3. Source-Separated CDL Recycling
 - 4. Co-mingled CDL Recycling
- B. CDL waste materials that can be salvaged, reused or recycled include, but are not limited to, the following:
 - 1. Acoustical ceiling tiles
 - 2. Asphalt
 - 3. Asphalt shingles
 - 4. Cardboard packaging
 - 5. Carpet and carpet pad
 - 6. Concrete
 - 7. Drywall
 - 8. Fluorescent lights and ballasts
 - 9. Land clearing debris (vegetation, stumpage di
 - 10. Metals
 - 11. Paint (through hazardous waste outlet
 - 12. Wood
 - 13. Plastic film (sheeting, shrink wrap, packaging)
 - 14. Window glass
 - 15. Wood
 - 16. Field office waste, including office paper, aluminum cans, glass, plastic, and office cardboard.
- 1.4 QUALITY ASSURANCE
- A. Waste Maragement Coordinator Qualifications: Experienced firm, with a record of successful waste management coordination of projects with similar requirements, that employs a CEED Accredited Professional, certified by the USGBC as waste management coordinator.

R gulatory Requirements: Conduct construction waste management activities in accordance with hauling and disposal regulations of all authorities having jurisdiction and all other applicable laws and ordinances.

Preconstruction Conference: Schedule and conduct meeting at Project site prior to construction activities.

- 1. Attendees: Inform the following individuals, whose presence is required, of date and time of meeting.
 - a. Owner
 - b. Architect
 - c. Contractor's superintendent

- d. Major subcontractors
- e. Waste Management Coordinator
- f. Other concerned parties.
- 2. Agenda Items: Review methods and procedures related to waste management including, but not limited to, the following:
 - a. Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
 - b. Review requirements for documenting quantities of each type of waste and as disposition.
 - c. Review and finalize procedures for materials separation and verify availabilit of containers and bins needed to avoid delays.
 - d. Review procedures for periodic waste collection and transportation to becycling and disposal facilities.
 - e. Review waste management requirements for each trade.
- 3. Minutes: Record discussion. Distribute meeting minutes to ad participants. Note: If there is a Project Architect, they will perform this role
- 1.5 WASTE MANAGEMENT PLAN Contactor shall develop and document the following:
 - A. Develop a plan to meet the requirements listed in this section at a minimum. Plan shall consist of waste identification, waste reduction play and cost/revenue analysis. Distinguish between demolition and construction proster reductive quantities by weight throughout the plan.
 - B. Indicate anticipated types and quantities of demolition, site-cleaning and construction waste generated by the project. List all assumptions made for the quantities estimates.
 - C. List each type of waste and whether it will be salvaged, recycled, or disposed of in an landfill. The plan should in ude 4 the following information:
 - 1. Types and estimated quantities, by weight, of CDL waste expected to be generated during det olition and construction.
 - 2. Proposed methods for CDL waste salvage, reuse, recycling and disposal during demolition including, but not limited to, one or more of the following:



- . Contracting with a deconstruction specialist to salvage materials generated,
- . Selective salvage as part of demolition contractor's work,
- Reuse of materials on-site or sale or donation to a third party.
- 3. Proposed methods for salvage, reuse, recycling and disposal during construction including, but not limited to, one or more of the following:
 - a. Requiring subcontractors to take their CDL waste to a recycling facility;
 - b. Contracting with a recycling hauler to haul recyclable CDL waste to an approved recycling or material recovery facility;
 - c. Processing and reusing materials on-site;
 - d. Self-hauling to a recycling or material recovery facility.

- 4. Name of recycling or material recovery facility receiving the CDL wastes.
- 5. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on project site where materials separation will be located.
- D. Cost/Revenue Analysis: Indicate total cost of waste disposal as if there was no waste management plan and net additional cost or net savings resulting from implementing waste management plan. Include the following:
 - 1. Total quantity of waste.
 - 2. Estimated cost of disposal (cost per unit). Include hauling and sipping fees and cost of collection containers for each type of waste.
 - 3. Total cost of disposal (with no waste management).
 - 4. Revenue from salvaged materials.
 - 5. Revenue from recycled materials.
 - 6. Savings in hauling and tipping fees by donating matura
 - 7. Savings in hauling and tipping fees that are avoided.
 - 8. Handling and transportation costs. Including cost of ollection containers for each type of waste.
 - 9. Net additional cost or net savings from wastermanagement plan.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 CONSTRUCTION WASTE MANAGEMENT, GENERAL

- A. Provide containers for CDI waste that is to be recycled clearly labeled as such with a list of acceptable and unacceptable materials. The list of acceptable materials must be the same as the materials recycled as the receiving material recovery facility or recycling processor.
- B. The collection containers for recyclable CDL waste must contain no more than 10% non-recyclable material, by volume.
- C. Provide optainers for CDL waste that is disposed in a landfill clearly labeled as such.
- D. Us detailed material estimates to reduce risk of unplanned and potentially wasteful cuts.

. To the greatest extent possible, include in material purchasing agreements a waste reduction provision requesting that materials and equipment be delivered in packaging made of recyclable material, that they reduce the amount of packaging, that packaging be taken back for reuse or recycling, and to take back all unused product. Insure that subcontractors require the same provisions in their purchase agreements.

F. Conduct regular visual inspections of dumpsters and recycling bins to remove contaminants.

3.2 SOURCE SEPARATION

A. General: Contractor shall separate recyclable materials from CDL waste to the maximum extent possible.

Separate recyclable materials by type.

- 1. Provide containers, clearly labeled, by type of separated materials or provide other storage method for managing recyclable materials until they are removed from Project site.
- 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water and to minimize pest attraction. Cover to prevent windblown dust.
- 3. Stockpile materials away from demolition area. Do not store within drip line of remaining trees.
- 4. Store components off the ground and protect from weather.

3.3 CO-MINGLED RECYCLING

A. General: Do not put CDL waste that will be disposed in a landfill into a co-mingled CDL waste recycling container.

REMOVAL OF CONSTRUCTION WASTE MATERIALS

- A. Remove CDL waste materials from project site on pregnar basis. Do not allow CDL waste to accumulate on-site.
- B. Transport CDL waste materials off Owner's property and legally dispose of them.
- C. Burning of CDL waste is not permitte

Y + C

WASTE MANAGEMENT PROGRESS REPORT							
N. S	DISPOS MUNIC OLID ANDF	IPAL WASTE	DIVERTED FROM LANDFILL BY RECYCLING, SALVAGE OR REUSE				
MATERIAL CATEGORY			Recycled	Salvaged	Reusid		
1. Acoustical Ceiling Tiles							
2. Asphalt							
3. Asphalt Shingles							
4. Cardboard Packaging							
5. Carpet and Carpet Pad							
6. Concrete							
7. Drywall							
8. Fluorescent Lights and							
Ballasts 9. Land Clearing Debris							
(vegetation, stumpage, dirt)							
10. Metals		\frown					
11. Paint (through hazardous waste outlets)	C	\mathbf{O}					
12. Wood)					
13. Plastic Film (sheeting, shrink wrap, packaging)							
14. Window Glass							
15. Field Office Waste (office							
paper, aluminum cans glass, plastic, and cafee							
cardboard)							
16. Other (insert description)							
17. Other (Insert description) Fotal (In Weight)			(TOTAL OF WEIGHT)	ALL ABOVE V	ALUES – IN		
		Percentage of (TOTAL WASTE DIVI Waste Diverted BY TOTAL DIVERTEI					

END OF SECTION

SECTION 01 77 00

CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 **RELATED DOCUMENTS**

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

SUMMARY 1.2

This Section includes administrative and procedural requirements for contract closeout, A. including, but not limited to, the following:

- 1. Inspection procedures.
- Project Record Documents. 2.
- 3. Operation and maintenance manuals.
- 4. Warranties.
- Instruction of the Owner's personnel. 5.
- 6. Final cleaning.

SUBSTANTIAL COMPLETION 1.3

- Preliminary Procedures: Before requesting inspection for determining date of Substantial A. Completion, complete the following, List items below that are incomplete in request.
 - Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete. 1.
 - 2.
 - Advise the Owner of pending insurance changeover requirements. Submit specific warranties, workmanship bonds, maintenance service agreements, final 3. certifications, and similar documents.
 - Obtain and submit releases permitting the Owner unrestricted use of the Work and access 4. o services and utilities. Include occupancy permits, operating certificates, and similar releases.



Prepare and submit Project Record Documents, operation and maintenance manuals, Final Completion construction photographs, damage or settlement surveys, property surveys, and similar final record information.

Deliver tools, spare parts, extra materials, and similar items to location designated by the Owner. Label with manufacturer's name and model number where applicable.

- Make final changeover of permanent locks and deliver keys to the Owner. Advise the Owner's personnel of changeover in security provisions.
- Complete startup testing of systems. 8.
- Submit test/adjust/balance records. 9.
- Terminate and remove temporary facilities from Project site, along with mockups, 10. construction tools, and similar elements.
- Advise the Owner of changeover in heat and other utilities. 11.
- Submit changeover information related to the Owner's occupancy, use, operation, and 12. maintenance.

- 13. Complete final cleaning requirements, including touchup painting.
- 14. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, the Architect will either proceed with inspection or notify the Contractor of unfulfilled requirements. The Architect will prepare the Certificate of Substantial Completion after inspection or will notify the Contractor of items, either on the Contractor's list or additional items identified by the Architect that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 - 2. Results of completed inspection will form the basis of requirements for Fina Completion.

1.4 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection or extermining date of Final Completion, complete the following:
 - 1. Submit a final Application for Payment according to Division 00 Section "Supplementary General Conditions A201-2007."
 - 2. Submit certified copy of the Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by the Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 - 3. Submit evidence of final continuing insurance coverage complying with insurance requirements.
 - 4. Instruct the Owner's performed in operation, adjustment, and maintenance of products, equipment, and systems.
- B. Inspection: Submits witten request for final inspection for acceptance. On receipt of request, the Architect will either proceed with inspection or notify the Contractor of unfulfilled requirement. The Architect will prepare a final Certificate for Payment after inspection or will notify the Contractor of construction that must be completed or corrected before certificate will be issued.

Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Preparation: Submit three copies of list. Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by the Contractor that are outside the limits of construction.

- 1. Organize list of spaces in sequential order.
- 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
- 3. Include the following information at the top of each page:

- a. Project name.
- b. Date.
- c. Name of Architect.
- d. Name of Contractor.
- e. Page number.

1.6 PROJECT RECORD DOCUMENTS

- A. General: Do not use Project Record Documents for construction purposes. Protect Project Record Documents from deterioration and loss. Provide access to Project Record Documents for the Architect's reference during normal working hours.
- B. Record Drawings:
 - 1. Maintain and submit one set of blue- or black-line white prints of Contact Drawings and Shop Drawings and submit digital scanned copies of all the Record Drawings; format to be .JPG or .TIF.
 - 2. The Contractor shall be responsible for updating the bit documents (CADD drawings and specifications) with the as-built changes. All changes shall be clouded and tagged as "as-built" revisions. The drawings shall also have an wear built" date.
 - 3. Deliverables: One review set of bond prints, two final sets (one in bond and one in Mylar).
 - 4. Drawings that replace the original bid drawings shall be cross referenced to the original bid drawing files.
 - 5. Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to prepare the marked-up Record Prints.
 - a. Give particular at ention to information on concealed elements that cannot be readily identified and recorded later.
 - b. Accurately proof information in an understandable drawing technique.
 - c. Record date as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
 - d. Man Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Where Shop Drawings are narked, show cross-reference on Contract Drawings.



Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at the same location. Mark important additional information that was either shown schematically or omitted

- from original Drawings.
- Note Construction Change Directive numbers, Change Order numbers, alternate numbers, and similar identification where applicable.
- 9. Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location. Organize into manageable sets; bind each set with durable paper cover sheets. Include identification on cover sheets.
- C. Record Specifications: Submit one copy of Project's Specifications, including addenda and contract modifications. Mark copy to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

- 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
- 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
- 3. Note related Change Orders, Record Drawings, and Product Data, where applicable.
- D. Record Product Data: Submit one copy of each Product Data submittal. Mark one set to indicate the actual product installation where installation varies substantially from that indicated in Product Data.
 - 1. Give particular attention to information on concealed products and installations has cannot be readily identified and recorded later.
 - 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 - 3. Note related Change Orders, Record Drawings, and Record Specifications, where applicable.
- E. Miscellaneous Record Submittals: Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and ubbainal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

1.7 OPERATION AND MAINTENANCE MANUAL

- A. Assemble three (3) complete sets of operation and maintenance data indicating the operation and maintenance of each system, subsystem, and piece of equipment not part of a system. Include operation and maintenance data required in individual Specification Sections and as follows:
 - 1. Operation Data:
 - a. Emergency justructions and procedures.
 - b. System subsystem, and equipment descriptions, including operating standards.
 - c. Operating procedures, including startup, shutdown, seasonal, and weekend operations.
 - d. Description of controls and sequence of operations.
 - Niping diagrams.

Mintenance Data:

- Manufacturer's information, including list of spare parts.
- b. Name, address, and telephone number of Installer or supplier.
- c. Maintenance procedures.
- d. Maintenance and service schedules for preventive and routine maintenance.
- e. Maintenance record forms.
- f. Sources of spare parts and maintenance materials.
- g. Copies of maintenance service agreements.
- h. Copies of warranties and bonds.
- B. Organize operation and maintenance manuals into suitable sets of manageable size. Bind and index data in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, with pocket inside the covers to receive folded oversized sheets.

Identify each binder on front and spine with the printed title "OPERATION AND MAINTENANCE MANUAL," Project name, and subject matter of contents.

1.8 WARRANTIES

- A. Submittal Time: Submit written warranties on request of the Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.
- B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by the owner during construction period by separate agreement with the Contractor.
- C. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, 3-ring, vinyl-cov red losse-leaf binders, thickness as necessary to accommodate contents, and steed to receive 8-1/2-by-11-inch (115-by-280-mm) paper.
 - 2. Provide heavy paper dividers with plastic-coverectable for each separate warranty. Mark tab to identify the product or installation. Provide a wyed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 3. Identify each binder on the front and coine with the typed or printed title "WARRANTIES," Project name, and name of the Contractor.
- D. Provide additional copies of each warrant, to include in operation and maintenance manuals.

PART 2 - PRODUCTS

- 2.1 MATERIALS
 - A. Cleaning Agenta: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 DEMONSTRATION AND TRAINING

Instruction: Instruct the Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.

- 1. Provide instructors experienced in operation and maintenance procedures.
- 2. Provide instruction at mutually agreed-on times. For equipment that requires seasonal operation, provide similar instruction at the start of each season.
- 3. Schedule training with the Owner, through the Architect with at least seven days' advance notice.
- 4. Coordinate instructors, including providing notification of dates, times, length of instruction, and course content.

- B. Program Structure: Develop an instruction program that includes individual training modules for each system and equipment not part of a system, as required by individual Specification Sections. For each training module, develop a learning objective and teaching outline. Include instruction for the following:
 - 1. System design and operational philosophy.
 - 2. Review of documentation.
 - 3. Operations.
 - 4. Adjustments.
 - 5. Troubleshooting.
 - 6. Maintenance.
 - 7. Repair.

3.2 FINAL CLEANING

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- A. General: Provide final cleaning. Conduct cleaning and waste-remaval operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average compercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
 - a. Clean Project site, vare, and grounds, in areas disturbed by construction activities, including landscipe development areas, of rubbish, waste material, litter, and other foreign substance
 - b. Sweep payed areas broom clean. Remove petrochemical spills, stains, and other foreign reports
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - Remove snow and ice to provide safe access to building.

Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.

- Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
- h. Sweep concrete floors broom clean in unoccupied spaces.
- i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; shampoo if visible soil or stains remain.
- j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
- k. Remove labels that are not permanent.

- 1. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - 1) Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
- Wipe surfaces of mechanical and electrical equipment and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- n. Replace parts subject to unusual operating conditions.
- o. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
- p. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
- q. Clean ducts, blowers, and coils if units were operated withoutfilters during construction.
- r. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace burned-out bulbs, and those noticeably limered by hours of use, and defective and noisy starters in fluorescent and mercary vapor fixtures to comply with requirements for new fixtures.
- s. Leave Project clean and ready for occupan
- C. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from Project site and dispose of lawfully.

3.3 SUMMARY OF CLOSEOUT DOCUMENTS

- A. Contractor's Affidavit of Payment of Debts and Claims (AIA Document G706)
- B. Contractor's Concert of Surety Company to Final Payment (AIA Document G707) (one copy)
- C. Contractor's Affiliavit of Release of Liens (AIA Document G706A) (one copy)
- D. Copy of Letter of Guarantee and Warranty Information (three copies)
- E. Subconnector's Release of Liens had been submitted with each previous Application of Payment (AIA Document G706A) (one copy)

Operation and Maintenance Manuals

- Record Shop Drawings and Submittals
- H. As-built Drawings: All construction changes should be clouded and marked.
 - 1. Updated CAD files to reflect changes and as-built conditions.
 - 2. Two hard copies and one CD-Rom with digital Image (scanned) files of As-builts
 - 3. Mylar prints of As-builts revised CAD file

- I. Affidavit of Discharge of State Tax Liability
- J. Punch List Closeout Letter

END OF SECTION

R Construction

SECTION 02 05 00

ROOF REMOVALS AND SUBSTRATE PREPARATION

PART ONE - GENERAL

1.01 DESCRIPTION OF WORK

- A. Provide all labor, material, equipment, and tools as required to prepare the existing roof system and additional related components for reroofing and related work as specified in this Section
- B. Provide for the proper disposal of all existing materials designated to be removed. Use approved trash receptacles in areas designated by the Owner's Representative.
- C. Coordinate the roof and related work preparation and removal work with the new hofing work in such a manner as to keep the new insulation and roofing materials, building, and building interior continuously clean, dry and watertight.
- D. Provide barricades as required to protect the public and workers during remolition work. Barricades to keep public out of demolition areas shall be left in place until comoved by Contractor after they are no longer required for protection.
- E. The procedures proposed for the accomplishment of demolition work and barricades shall be submitted to, and approved by, the Owner before the work is started. The procedures shall provide for safe conduct of the work, removal and disposition of materials to be removed, protection of property which is to remain undisturbed, protection of the public, Contractor and Owner personnel, coordination with other work in progress, and timely disconnection of utility services. The procedures shall include a detailed description of the muthods and equipment to be used for each operation and the sequence of operations.
- F. Redeck abandoned equipment and curb openings in the roof deck in accordance with the drawings and specifications.
- G. Removal of all bitumino is, sealant and/or sprayed polyurethane foam materials from wall surfaces above and below an eor areas, including any not in contract roof areas.

1.02 PROCEDURE

- A. Connector shall exercise care to protect property, to protect from fire all materials at all times, and hall comply with the instructions from the Owner, OSHA and State, Municipal and Local regulations having jurisdiction over the work.
- B. At locations where security fencing, grates, window covers, etc. prevent or hinder the performance of the work of this contract, coordinate and provide for, temporary removals or displacement with site staff and security personnel. In all instances, existing security systems and fixtures shall be returned to original locations and securement at the end of each day to provide continuous secure conditions during non-working hours.

1.03 JOB CONDITIONS

A. Occupancy: The building will remain in operation throughout the construction period. Demolition

work may not commence until areas to be demolished have been vacated. Coordinate vacating of spaces with Owner's Representative.

- B. Carefully remove that portion of existing roof construction and related work as required by the drawings and/or specified herein and as might be further found necessary as a result of field conditions to accommodate the new work and construction. Exercise caution in cutting and removal of material and equipment. Care shall be exercised so as not to disturb any part of the existing construction not required to be removed or cut for the new work. Should damage occur to any work being retained, the Contractor shall patch, repair or otherwise restore same promptly to its original condition at no sost to the Owner. All existing materials, fixtures and equipment which have been removed or discommendate and are not indicated by the Owner for reuse or salvage shall become the property of the Contractor and shall be removed from the site by the Contractor at his expense. Storage or sale of removed items on the site will not be permitted.
- C. Traffic: Conduct demolition operations and the removal of debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.
 - 1. Contractor shall not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- D. Protections: Ensure the safe passage of persons around the area of demolition. Conduct operations to prevent injury or damage to adjacent buildings, structures, other facilities and persons.
- E. Utility Services: Maintain existing utilities indicated to remain. Keep in service, and protect against damage during demolition operations. Do not interrupt existing utilities serving occupied or used facilities, except when authorized in writing by the Owner. Provide temporary services during interruptions to existing utilities, and eptable to the Owner.
- F. Mechanical and electrical services interrupted by removals or relocation where new work is being performed shall be altered, cupped, plugged, or reset as required to suit new conditions with the least interruption to service. We we hall be coordinated and approved by the Owner. This work shall be done by the mechanica and electrical contractors.
- G. Where mechanical, departical or general construction is removed from existing to remain, the existing shall be patched in accordance with cutting and patching provisions as specified in Specification Section 01 73 2%"Cutting and Patching."
- H. Should conditions be uncovered or created which would be detrimental to the proper conduct of pecified work, immediately notify the Owner's Representative of these conditions for resolution.
- I. Contractor, Contractor shall verify that these lines are disconnected below deck. At locations where capped lines are, or appear to be tied into active lines, Contractor shall retain a licensed mechanical contractor to cap off the line below deck without disrupting service to active lines.
- J. All modifications, disconnections and relocation and reconnection of any existing lightning protection system components as may be required by the work of this contract shall be accomplished by an experienced installer who is a Certified Master Installer of the Lightning Protection Institute (LPI), working under the direct supervision of an LPI certified manufacturer, or by an installer certified by Underwriters' Laboratories as a Master Label Installer.

- K. Required displacement or disconnection of existing antenna or satellite dishes shall be closely coordinated with the Owner to minimize interruption to service.
- L. At locations where electrical conduit or service lines are secured to the top or inside face of parapet walls, resecure through inside face of new coping (unless noted otherwise on project drawings). Secure with new galvanized steel brackets, 8 ft. o.c. (max.), with brackets at all tees, ells, and connections, set over butyl tape and secured with EPDM gasketed threaded stainless steel fasteners. Include all necessary new wiring, galvanized steel conduit, fittings, connections, etc. as necessary to comply with this requirement (no PVC materials to be used).
- M. At locations where service lines are routed over the top of parapet walls, modify as necessary beensure inch minimum clearance between top of new coping and bottom of service line (inless) therwise noted on project drawings). Include all necessary new wiring, galvanized seek conduct, fittings, connections, etc. as necessary to comply with this requirement (no PVC materials to be used).

PART TWO - PRODUCTS

SECTION NOT USED

PART THREE - EXECUTION

3.01 EXECUTION

- A. Remove existing roofing assemblies including all membranes, insulations, base flashings, underlayments, waterproofings, etc., fown to the existing structural deck as shown on the drawings.
- B. Remove only as much existing r of ing and insulation as can be recovered with new roofing and made watertight the same day, or before the arrival of inclement weather.
- C. Perform cutting, drilling, and removals in a manner which will prevent damage to adjoining construction which is to remain.
 - 1. Prior to any using, drilling or removals, investigate both sides of the surface affected.
 - 2. Repair & replace existing adjacent finishes defaced or damaged during removals to the suisfaction of the Owner.
- D. Remove debris immediately from the roofs and adjacent grounds areas. Take all necessary precautions to mare that debris does not blow around the site. Keep dumpsters covered, remove from site daily. Users shall be removed from roofs, over twelve feet to ground level, by use of chutes or approved mechanical means.
- E. Notify and coordinate with the Owner's Representative prior to interrupting or disconnecting utilities which serve only the areas of the contract. Lines which are to be reactivated shall be removed back to the supply and capped, unless indicated otherwise.
- F. Provide temporary protection at roof drains during reroofing operations to prevent blockage of drain systems. Remove temporary protection at the end of each work day and prior to arrival of inclement weather and ensure that roof drains are free of reroofing debris and blockage.

3.02 SUBSTRATE PREPARATION

A. General:

- 1. Use chutes or other approved appropriate methods to remove materials from the roof to appropriate containers to minimize the creating and disbursal of dust. Contractor shall not throw removed or discarded materials from the roof.
- 2. Contractor shall exercise caution to avoid damage to components indicated to remaining the set. Exposed substrates are to be clean (except for residual stains), dry, and suitable to receive new materials.
- 3. Contractor shall protect and temporarily tarp the interior area below hoof de k replacement areas, drain replacement areas, obsolete roof penetration removed and equipment removal and replacement areas. Remove any debris resulting from these operations on a daily basis or more of ten if requested by Owner's Representative.
- 4. Shut off all affected electrical, plumbing and gas line and disconnect all electrical, plumbing, gas lines and ventilation ducts where required to above collifting mechanical units and other work required for the work. All required disconnection, reconnection and modification of the electrical and mechanical systems shall be performed by a licensed mechanical/electrical contractor. Lift the units off the curbs or supports in a manner that will not damage the structural roof deck, electrical, plumbing, gas lines, ventilation equipment, or the unit. Coordinate all work in this section with the Owner's Representative.
- 5. Temporarily displace junction boxes rooftop conduit and gas lines, or other items which may interfere with work. All required disconnection and reconnection shall be performed by a licensed mechanical/electrical contractor as applicable to the work being performed. Schedule shut-offs and disconnections with the Owner.
- 6. Lift or remove remaining sheet metal and/or other metal components installed in conjunction with the existing nof system, as required, to allow for the installation of new materials.
- 7. Contractor shell contain and prevent any discharge of HVAC condensate or other HVAC related moisture or liquid discharge onto daily work areas during roof removal and replacement operations.



Sea all roof top HVAC air intakes during roof removal operations and during the installation of hot bituminous or adhesive materials in the vicinity of the air intake vents. Obtain approval by and coordinate closures with Owner. Remove temporary seals upon daily completion of removals, bituminous and/or adhesive application.

Exercise caution during removal of existing roof system components to prevent damaging of the existing roof deck and components indicated to remain for reuse.

B. The following components shall be completely <u>removed and discarded</u>:

- 1. Existing debris and materials on roof surface.
- 2. Existing roofs, cants, tapered edge strips, insulations, waterproofings, and underlayments down to the surface of the roof deck. Contractor shall exercise caution during roof removal operations as necessary to prevent damaging the existing deck.
- 3. Existing sheet metal flashings, counterflashings (except where noted on drawings or elsewhere in the specifications to reuse), counterflashing reglet receivers, scuppers, condition heads, downspouts, gravel stop fascias, fascias, copings, flanged sleeves and contact and pitch pan flashings.
- 4. Brackets, fasteners, protrusions etc. in parapet walls that would impede on hinder proper completion of the work.
- 5. Existing wood blocking as noted on drawings and/or as incessary to provide conditions shown on drawings.
- C. Completely remove by scraping or chipping all loose bitum to unsterials, mortar fins and mortar and bituminous high spots, roof system components, fasteners, brackets, etc., on masonry walls and decks to provide a suitable substrate for new plywood sheathing and flashings.
- D. Completely remove all bituminous and sealant materials and pipe insulation from the surfaces of all pipes, equipment service lines, supports, wells, etc. that are to receive new bituminous, sealant and/or sheet metal flashing materials.
- E. Temporarily displace all mechanisal ventilator unit covers to accommodate the removal and replacement of the existing base flashings and to allow for installation of new materials.
- F. Lift or remove all remaining heet metal and/or other metal components installed in conjunction with the existing roof system as required or shown in drawings, to allow for the installation of new materials.
- G. All masonry walls, encrete deck, sheet metal flanges, sheet metal curbs and soil pipe and drain flashing leads which will receive new bituminous materials shall be primed with asphalt primer. Metal flanges and metal flashing materials shall be primed both sides. The primer shall be allowed to dry prior to the start of installation work.
- H. Rake out and completely remove all sealant, sheet metal, fasteners, lead wedges, etc. from existing region to prepare for reuse where noted on drawings.
- I. Exposed substrates shall be clean, dry, and suitable to receive the new roof system materials.

3.03 HVAC EQUIPMENT

- A. Upon completion of roofing work, return mechanical ventilator units and metal caps to their original positions and secure to existing curbs with EPDM-gasketed stainless steel screws, one (minimum) on each side of the curb.
- B. Return all displaced HVAC units to their original location.

C. Reconnect all electrical, plumbing, gas line, service line, ducts, and ventilation equipment and connections required to return mechanical units and all affected connections and hook-ups to their original operation condition. Reconnection of electrical equipment shall be performed by a qualified electrical subcontractor licensed to perform this work. Reconnection of gas and service lines and HVAC duct work shall be performed by a qualified, licensed mechanical subcontractor. Extension and/or modification of electrical, plumbing, duct, service and gas lines may be required to accommodate the finished height of the new roof system and HVAC supports, blocking and pads and related work of this contract.

END OF SECTION

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SECTION 04 20 00

UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

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1.2 SUMMARY

- A. Section Includes:
 - 1. Building (common) brick.
 - 2. Mortar and grout.
 - 3. Masonry-joint reinforcement.
 - 4. Ties and anchors.
 - 5. Embedded flashing.
 - 6. Miscellaneous masonry accessories.
- B. Products Installed but not Furnished under This Section:
 - 1. Cavity wall insulation.
- 1.3 PREINSTALLATION MEETINGS
 - A. Preinstallation Conference at Project site.
- 1.4 ACTION SUBMITTALS
 - A. Produc Data: For each type of product.
 - Shop Drawings: For the following:

Masonry Units: Show sizes, profiles, coursing, and locations of special shapes. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.

- C. Samples for Initial Selection:
 - 1. Weep holes/cavity vents.
- D. Samples for Verification: For each type and color of the following:
 - 1. Weep holes and cavity vents.

2. Accessories embedded in masonry.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Material Certificates: For each type and size of the following:
 - 1. Masonry units.
 - a. Include data on material properties.
 - b. For masonry units used in structural masonry, include data and calculations establishing average net-area compressive strength of units
 - 2. Cementitious materials. Include name of manufacturer, brand name and type.
 - 3. Mortar admixtures.
 - 4. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
 - 5. Grout mixes. Include description of type and proportions of ingredients.
 - 6. Reinforcing bars.
 - 7. Joint reinforcement.
 - 8. Anchors, ties, and metal accessories.
- C. Mix Designs: For each type of mortar and group. Include description of type and proportions of ingredients.
 - 1. Include test reports for morta mixes required to comply with property specification. Test according to ASTM C 109/C 109N for compressive strength, ASTM C 1506 for water retention, and ASTM C 91/C 91N for air content.
 - 2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.
- D. Statement of Compressive Strength of Masonry: For each combination of masonry unit type and mortar type, provide statement of average net-area compressive strength of masonry units, mortar type and resulting net-area compressive strength of masonry determined according to TMS 602/1 CL030.1/ASCE 6.
- E. Cold Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.6 QUALITY ASSURANCEA. Testing Agency Qualifications: Qualified according to ASTM C 1093 for testing indicated.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

- Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not B. use cementitious materials that have become damp.
- Store aggregates where grading and other required characteristics can be maintained and C. contamination avoided.
- D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.
- E. Store masonry accessories, including metal items, to prevent corrosion and accumula n of dirt and oil.

FIELD CONDITIONS 1.8

- Protection of Masonry: During construction, cover tops of war ctions, and sills with A. waterproof sheeting at end of each day's work. Cover pertially completed masonry when construction is not in progress.
 - 1. Extend cover a minimum of 24 inches down les of walls, and hold cover securely oth s in place.
- ast 2 hours and concentrated loads for at least B. Do not apply uniform floor or roof loads for at three days after building masonry walls or column
- C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.
 - Protect base of wells from rain-splashed mud and from mortar splatter by spreading 1. coverings on goun and over wall surface.
 - 2.
 - Protect sills ledges, and projections from mortar droppings. Protect surfaces of window and door frames, as well as similar products with painted and 3. integral filishes from mortar droppings.
- Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice D. t. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by frezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.



Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.

E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.
- B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quarty, including color for exposed masonry, from single manufacturer for each cenertitious component and from single source or producer for each aggregate.

2.2 PERFORMANCE REQUIREMENTS

- A. Provide structural unit masonry that develops indicated net-area compressive strengths at 28 days.
 - 1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (mit-strength method) according to TMS 602/ACI 530.1/ASCE 6.
 - 2. Determine net-area compressive strength of masonry by testing masonry prisms according to ASTM C 1314.

2.3 UNIT MASONRY, GENERAL

- A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Locuments.
- B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in the completed Work and will be within 20 feet vertically and horizontally of a walking surface.
- C. Fire-Resistance Ratings: Comply with requirements for fire-resistance-rated assembly designs indicated.

Where fire-resistance-rated construction is indicated, units shall be listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction.



- A. General: Provide shapes indicated and as follows, with exposed surfaces matching finish and color of exposed faces of adjacent units:
 - 1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.

- 2. Provide special shapes for applications where stretcher units cannot accommodate special conditions, including those at corners, movement joints, bond beams, sashes, and lintels.
- 3. Provide special shapes for applications requiring brick of size, form, color, and texture on exposed surfaces that cannot be produced by sawing.
- 4. Provide special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.
- B. Building Utility Brick: ASTM C 62, Grade SW.
 - 1. Unit Compressive Strength: Provide units that match existing with minimum average netarea compressive strength.
 - 2. Size: Match size of existing brick.
 - 3. Application: Use where brick is indicated for concealed locations. Face brick complying with requirements for grade, compressive strength, and size indicated for building brick may be substituted for building brick.

2.5 MORTAR AND GROUT MATERIALS

- A. Mortar Cement: ASTM C 1329/C 1329M.
- B. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C*079/C* 979M. Use only pigments with a record of satisfactory performance in masonry mortar
 - 1. Cover: Match Existing.
- C. Aggregate for Mortar: ASTM C 14
 - 1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
 - 2. For joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve
 - 3. White-Martar Argregates: Natural white sand or crushed white stone.
- D. Water: Pot ble.
- 2.6 **REINFORCEMENT**

Maschry-Joint Reinforcement: Match existing for size, location, and type.

2.7 TIES AND ANCHORS

- A. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
 - 1. Mill-Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M, with ASTM A 641/A 641M, Class 1 coating.

- 2. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B-2 coating.
- 3. Stainless-Steel Wire: ASTM A 580/A 580M, Type 304.
- 4. Galvanized-Steel Sheet: ASTM A 653/A 653M, Commercial Steel, G60 zinc coating.
- 5. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
- 6. Stainless-Steel Sheet: ASTM A 240/A 240M or ASTM A 666, Type 304.
- 7. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- 8. Stainless-Steel Bars: ASTM A 276 or ASTM A 666, Type 304.

2.8 EMBEDDED FLASHING MATERIALS

- A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
 - 1. Stainless Steel: ASTM A 240/A 240M or ASTM A 666, Type 304 0.016 inch thick.
 - 2. Fabricate through-wall flashing with snaplock receives on exerior face where indicated to receive counterflashing.
- B. Flexible Flashing: Use one of the following unless operwise indicated:
 - 1. Butyl Rubber Flashing: Composite, relf-adhesive, flashing product consisting of a pliable, butyl rubber compound, bontled to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.040 inch.
 - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1) DuPont Building Innovations: E. I. du Pont de Nemours and Company.
 - 2) GCP Applied Technologies Inc. (formerly Grace Construction Products).
 - 3) Protecto Wrap Company.
 - 4) Pawn Industries, Inc.
 - 5) Wre-Bond.
- C. Application: Unless otherwise indicated, use the following:

Where flashing is indicated to receive counterflashing, use metal flashing. Where flashing is fully concealed, use flexible flashing.

Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

E. Termination Bars for Flexible Flashing: Stainless steel bars 1/8 inch by 1 inch.

2.9 MISCELLANEOUS MASONRY ACCESSORIES

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

- B. Preformed Control-Joint Gaskets: Match existing.
- C. Bond-Breaker Strips: Asphalt-saturated felt complying with ASTM D 226/D 226M, Type I (No. 15 asphalt felt).
- D. Weep/Cavity Vent Products: Use the following unless otherwise indicated:
 - 1. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch less than depth of outer wythe, in color selected from manufacturer's standard.
 - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1) Advanced Building Products Inc.
 - 2) Heckmann Building Products, Inc.
 - 3) Hohmann & Barnard, Inc.
 - 4) Wire-Bond.

2.10 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
 - 1. Do not use calcium chloride in mortar or grout.
 - 2. Use mortar cement mortar unless otherwise indicated. Match existing for type.
 - 3. Add cold-weather admixture (in used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Preblended, Dry Monar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by reight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

PART 3 - EXECUTIO

3.1 EXAMINATION

Examine conditions, with Installer present, for compliance with requirements for installation olderances and other conditions affecting performance of the Work.

- 1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- 2. Verify that foundations are within tolerances specified.
- 3. Verify that reinforcing dowels are properly placed.
- 4. Verify that substrates are free of substances that impair mortar bond.

- B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Thickness: Build cavity and composite walls and other masonry construction to full thickness shown. Build single-wythe walls to actual widths of masonry units, using units of widths indicated.
- B. Leave openings for equipment to be installed before completing masoury. After installing equipment, complete masonry to match construction immediately adjacent to opening.
- C. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws, provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concerled.
- D. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.
- E. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.
- F. Wetting of Brick: Wet brick before laying it initial rate of absorption exceeds 30 g/30 sq. in. per minute when tested according to Af 1M 1 6. Allow units to absorb water so they are damp but not wet at time of laying.

3.3 TOLERANCES

- A. Dimensions and Locate as of Élements:
 - 1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch or mines 1/4 incn.
 - 2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch.
 - For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.

es and Levels:

- 1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet, or 1/2-inch maximum.
- 2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2-inch maximum.
- 3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2-inch maximum.

- 4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2-inch maximum.
- 5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2-inch maximum.
- 6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet, or 1/2-inch maximum.
- 7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch except due to warpage of masonry units within tolerances specified for warpage of units.
- C. Joints:
 - 1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch.
 - 2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch.
 - 3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch or minus 1/4 inch.
 - 4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch. Do not vary from adjacent bed-joint and read-joint thicknesses by more than 1/8 inch.
 - 5. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch from one mastery unit to the next.

3.4 LAYING MASONRY WALLS

- A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than haf-size units, particularly at corners, jambs, and, where possible, at other locations.
- B. Bond Pattern for Exposed Masonry: Match Existing.
- C. Lay concealed masonry with all units in a wythe in running bond or bonded by lapping not less than 2 inches. Bond and interlock each course of each wythe at corners. Do not use units with less than-nominal 4-inch horizontal face dimensions at corners or jambs.
- D. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.
- E. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
- F. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.
- G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below, and rod mortar or grout into core.

3.5 MORTAR BEDDING AND JOINTING

- A. Lay masonry units as follows:
 - 1. Bed face shells in mortar and make head joints of depth equal to bed joints.
 - 2. Bed webs in mortar in all courses of piers, columns, and pilasters.
 - 3. Bed webs in mortar in grouted masonry, including starting course on footings.
 - 4. Fully bed units and fill cells with mortar at anchors and ties as needed to fully embed anchors and ties in mortar.
- B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slash head joints.
- C. Tool exposed joints slightly concave when thumbprint hard, using a jointe larger than joint thickness unless otherwise indicated.
- D. Cut joints flush for masonry walls to receive plaster or other direct upplied finishes (other than paint) unless otherwise indicated.
- E. Cut joints flush where indicated to receive waterproving unless otherwise indicated.

3.6 ANCHORED MASONRY VENEERS

- A. Anchor masonry veneers to wall frame g and concrete and masonry backup with seismic masonry-veneer anchors to comply with the following requirements:
 - 1. Fasten screw-attached and seismic anchors through sheathing to wall framing and to concrete and masonry fackut with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener.
 - 2. Embed tie sections connector sections and continuous wire in masonry joints.
 - 3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
 - 4. Space and ors as indicated, but not more than 18 inches o.c. vertically and 24 inches o.c. horizontally, with not less than one anchor for each 2 sq. ft. of wall area. Install additional anchor within 12 inches of openings and at intervals, not exceeding 8 inches, around perimeter.

Space anchors as indicated, but not more than 18 inches o.c. vertically and horizontally. Install additional anchors within 12 inches of openings and at intervals, not exceeding 24 inches, around perimeter.

rovide not less than 1 inch of airspace between back of masonry veneer and face of insulation.

1. Keep airspace clean of mortar droppings and other materials during construction. Bevel beds away from airspace, to minimize mortar protrusions into airspace. Do not attempt to trowel or remove mortar fins protruding into airspace.

3.7 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

- A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete, to comply with the following:
 - 1. Provide an open space not less than 1/2 inch wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
 - 2. Anchor masonry with anchors embedded in masonry joints and attached to structure.
 - 3. Space anchors as indicated, but not more than 24 inches o.c. vertically and 36 nches o.c. horizontally.

3.8 CONTROL AND EXPANSION JOINTS

- A. General: Install control- and expansion-joint materials in unit masterials at masterials progresses. Do not allow materials to span control and expansion joints without prevision to allow for inplane wall or partition movement.
- B. Form control joints in concrete masonry: match existing
- C. Form expansion joints in brick as follows: match exist
- D. Provide horizontal, pressure-relieving joints by either leaving an airspace or inserting a compressible filler of width required for estaming sealant and backer rod specified in Section 07 92 00 "Joint Sealants," but not sess una 3/8 inch.
 - 1. Locate horizontal, pressure-relieving joints beneath shelf angles supporting masonry.

3.9 FLASHING, WEEP HOLES, AND CAVITY VENTS

- A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to drawward flow of water in wall, and where indicated.
- B. Install flashing as follows unless otherwise indicated:



Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.

At masonry-veneer walls, extend flashing through veneer, across airspace behind veneer, and up face of sheathing at least 8 inches; with upper edge tucked under air barrier, lapping at least 4 inches. Fasten upper edge of flexible flashing to sheathing through termination bar.

3. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal drip edge.

- C. Install weep holes in exterior wythes and veneers in head joints of first course of masonry immediately above embedded flashing.
 - 1. Use specified weep/cavity vent products to form weep holes.
 - 2. Space weep holes 32 inches o.c. unless otherwise indicated.
- D. Install cavity vents in head joints in exterior wythes at spacing indicated. Use specified weep/cavity vent products to form cavity vents.
 - 1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

3.10 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner will engage special inspectors to observe installation of Flashing to ensure it is installed per Contract Documents. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections.
- B. Inspections: Special inspections according to Level B in TM-402/ACI 530/ASCE 5.
 - 1. Begin masonry construction only after inspectors have verified proportions of siteprepared mortar.
 - 2. Place grout only after inspectors have verified compliance of grout spaces and of grades, sizes, and locations of reinforcement.
 - 3. Place grout only after inspectors have verified proportions of site-prepared grout.
- C. Mortar Test (Property Specification): For each mix provided, according to ASTM C 780. Test mortar for mortar air content and compressive strength.
- D. Prism Test: For each type of construction provided, according to ASTM C 1314 at 7 days and at 28 days.
- 3.11 MASONRY WASTE DISPOSAL
 - A. Salvageable daterials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.
 - B. Excess Masonry Waste: Remove excess masonry waste, and legally dispose of off Owner's property.

END OF SECTION

SECTION 06 10 26

ROOFING ROUGH CARPENTRY

PART 1 - GENERAL

1.1 **RELATED DOCUMENTS**

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

1.2 **SUMMARY**

- A. Section Includes:
 - 1. Rooftop equipment bases and support curbs.
 - Roof wood blocking and nailers. 2.
 - 3. Fasteners.
 - 4. Isolation barrier membrane.

1.3 DEFINITIONS

- Dimension Lumber: Lumber of 2 nches nominal or greater but less than 5 inches nominal in A. least dimension.
- obreviations used to reference them, include the following: Lumber grading agencies, and the B.
 - NeLMA: Northeastern Lumber Manufacturers' Association. NLGA: National number Grades Authority. 1.
 - 2.
 - SPIB: The Southern Pine Inspection Bureau. 3.
 - West Coast Lumber Inspection Bureau. 4. C'AB'
 - Western Wood Products Association. 5.

AIT TALS, GENERAL 1.4

al: Submit all action submittals required by this Section concurrently.

ACTION SUBMITTALS 1.5

Product Data: For each type of process and product. Indicate component materials and A. dimensions and include construction and application details. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

- 1. Wood-Preservative-Treated Materials: Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
- 2. Miscellaneous lumber.
- 3. Fasteners.
- 4. Isolation barrier membrane.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securally anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: U.S. Department of Commerce (DOC) FS 2c and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Factory mark each piece of lumber with grade stamp of grading agency.
 - 2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
 - 3. Provide dresser (lup ber, S4S, unless otherwise indicated.
- B. Maximum Mois ure Content of Lumber: 19 percent unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC3b for exterior construction not in contact with the ground.

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Preservative Chemicals: Waterborne system acceptable to authorities having jurisdiction and containing no arsenic, chromium or ammonia.

- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat items indicated on Drawings, and the following:

1. Wood nailers, curbs, equipment support bases, blocking, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.

2.3 PRESERVATIVE-TREATED PLYWOOD

- A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
 - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
- B. Mark plywood with appropriate classification marking of an inspection gency acceptable to authorities having jurisdiction.
- C. Application: Treat items indicated on Drawings.

2.4 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and umber for support or attachment of other construction, including the following:
 - 1. Blocking.
 - 2. Nailers.
 - 3. Rooftop equipment bases and support surbs.
- B. For items of dimension lumber size, provide Construction or No. 2 grade lumber and any of the following species:
 - 1. Hem-fir (north), NI GA.
 - 2. Mixed southern , me; SPIB.
 - 3. Spruce-pine-fir, NLGA.
 - 4. Hem-fir; VCLI or WWPA.
 - 5. Sprace-rine-fir (south); NeLMA, WCLIB, or WWPA.
- C. For bocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.5 **HASTENERS**

General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

- 1. Provide all fasteners of Type 304 stainless steel.
- B. Wood Screws for Attachment of Roof Blockings: Screws complying with ASME B18.6.1. Series 300 stainless steel, non-magnetic, torx or square drive, #10, length as required to provide minimum embedment of 1 ¹/₂" into substrate.

- C. Screws for Attachment to Metal Deck: Self drilling screws complying with ASME B18.6.1. Series 300 stainless steel, non-magnetic, torx or square drive, #10, 2 ¹/₂" length (unless otherwise noted).
- D. Screws for Attachment to Steel Angles or Framing: Self drilling screws complying with ASME B18.6.1. Series 300 stainless steel, non-magnetic, #12, 2 ¹/₂" length minimum (unless otherwise noted).
 - 1. With winged reamers: Wings designed to break off at contact with steel.
- E. Lag Bolts: ASME B18.2.1.
- F. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 5/3 hex nuts and, where indicated, flat washers.
- G. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the radiumosed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency. Anchor expands by tightening or harmoning a pin after insertion into pre-drilled hole.
 - 1. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2.

2.6 MISCELLANEOUS MATERIALS

- A. Isolation barrier membrane: belf-adhering, high-temperature sheet, minimum 15 mils thick, consisting of cross-laminated polyethylene-film top surface laminated to layer of butyl adhesive, with release-liner backing; cold applied, in roll width to match or exceed width of area to be protected. From de primer when recommended by membrane manufacturer.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Grace Construction Products, a unit of W. R. Grace & Co.; "Vycor Pro".
 - b. Equivalents meeting requirements of specified products.
- B. Wate Repellent Preservative: NWWDA-tested and -accepted formulation containing 3-iodo-2propynyl butyl carbamate, combined with an insecticide containing chloropyrifos as its active ingredient.



3.1 INSTALLATION, GENERAL

A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

- B. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous isolation barrier membrane between wood and metal decking.
- C. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- D. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

3.2 WOOD BLOCKING AND NAILER INSTALLATION

- A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
 - 1. Provide 1/2-inch vent space between each length of on cknow
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.
- C. Securely attach carpentry work to substrate by unchoing and fastening as indicated, complying with recommendations of FM Global Loss Prevention Data Sheet 1-49 and the following:
 - 1. Anchor bottom blocking to seel angles with minimum 3/8-inch stainless steel bolts with washers, at maximum 24 increas on center.
 - 2. At locations where bottom blocking is to be attached directly to metal decking: Provide isolation barrier membrane between deck and blocking, install wrinkle free. Apply primer if required by prombrane manufacturer. Use primer rather than nails for installing membrane at low temperatures, overlap edges not less than 3 ¹/₂ inches, roll laps with roller, cover membrane within 14 days. Attach bottom blocking with stainless steel self-drill screves, penetrating metal decking at least 1 inch in two rows, spaced not more than 24 inches on center and within 12 inches from end of blocking lengths.
 - 3. Attach cubsequent blocking to bottom blocking with stainless steel screws, penetrating at least 11/4 inches in two rows, spaced not more than 24 inches on center and within 12 inches from end of blocking lengths.



A outside building corners, locate fasteners at 12 inches on center and within 12 inches from corner, unless closer spacing is required to meet minimum 100 lb per fastener withdrawal force in any direction, or to comply with FM 1-49 recommendations.

END OF SECTION



SECTION 07 01 50.19

PREPARATION FOR REROOFING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Full tear-off of roof system at areas indicated on Drawings.
 - 2. Removal of flashings and counterflashings.

1.2 PREINSTALLATION MEETINGS

A. Preliminary Roofing Conference: Before starting removal Work, conduct conference at Project site.

1.3 INFORMATIONAL SUBMITTALS

- A. Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including exterior and reterior finish surfaces, that might be misconstrued as having been damaged by reroofing operations.
 - 1. Submit before Work begins.
- 1.4 QUALITY ASSURANCE
 - A. Installer Qualifications Approved by warrantor of existing roofing system to work on existing roofing.
- 1.5 FIELD CONDITIONS

Existing Roofing System: EPDM roofing.

Owner will occupy portions of building immediately below reroofing area.

- 1. Conduct reroofing so Owner's operations are not disrupted.
- 2. Provide Owner with not less than 72 hours' written notice of activities that may affect Owner's operations.
- 3. Coordinate work activities daily with Owner so Owner has adequate advance notice to place protective dust and water-leakage covers over sensitive equipment and furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below work area.

- C. Protect building to be reroofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.
- D. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- E. Limit construction loads on existing roof areas to remain, and existing roof areas scheduled to be reroofed to 200 PSF for rooftop equipment wheel loads and 200 PSF for uniformly distributed loads.
- F. Weather Limitations: Proceed with reroofing preparation only when existing and precased weather conditions permit Work to proceed without water entering existing roofing system or building.
 - 1. Remove only as much roofing in one day as can be made watertight in the same day.

PART 2 - PRODUCTS

2.1 AUXILIARY REROOFING MATERIALS

A. General: Use auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of new roofing system.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Seal or isolate windows that here be exposed to airborne substances created in removal of existing materials.
- B. Shut off rooftop atilhas and service piping before beginning the Work.
- C. Test existing root drams to verify that they are not blocked or restricted.
 - 1. Immediately notify Architect of any blockages or restrictions.
- D. Coordinate with Owner to shut down air-intake equipment in the vicinity of the Work.
 - Cover air-intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors in the ductwork.
- E. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.
- F. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday.
 - 1. Prevent debris from entering or blocking roof drains and conductors.
 - a. Use roof-drain plugs specifically designed for this purpose.

- b. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
- 2. If roof drains are temporarily blocked or unserviceable due to roofing system removal or partial installation of new roofing system, provide alternative drainage method to remove water and eliminate ponding.
 - a. Do not permit water to enter into or under existing roofing system components that are to remain.

3.2 ROOF TEAR-OFF

- A. Lower removed roofing materials to ground and onto lower roof levels using dest-tight chutes or other acceptable means of removing materials from roof areas.
- B. Full Roof Tear-off: Where indicated on Drawings, remove existing rooting and other roofing system components down to the existing roof deck.
 - 1. Remove roof insulation.
 - 2. Remove base flashings and counter flashings.
 - 3. Remove perimeter edge flashing and gravel sto
 - 4. Remove copings.
 - 5. Remove expansion-joint covers.
 - 6. Remove flashings at pipes, curbs, mechanical equipment, and other penetrations.
 - 7. Remove wood blocking, curbs, and patter
 - 8. Remove fasteners from deck

3.3 DECK PREPARATION

- A. Inspect deck after tear off of roofing system.
- B. If broken or loose fasteness that secure deck panels to one another or to structure are observed, or if deck aprears or feels inadequately attached, immediately notify Architect.
 - 1. Do no proceed with installation until directed by Architect.
- C. If deck surface is unsuitable for receiving new roofing or if structural integrity of deck is suspect, immediately notify Architect.

Do not proceed with installation until directed by Architect.

3.4 BASE FLASHING REMOVAL

- A. Remove existing base flashings.
 - 1. Clean substrates of contaminants, such as asphalt, sheet materials, dirt, and debris.
- B. Do not damage metal counterflashings that are to remain.

- 1. Replace metal counterflashings damaged during removal with counterflashings of same metal, weight or thickness, and finish as existing.
- C. Inspect parapet sheathing, wood blocking, curbs, and nailers for deterioration and damage.
 - 1. If parapet sheathing, wood blocking, curbs, or nailers have deteriorated, immediately notify Architect.

END OF SECTION

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SECTION 07 53 23

ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

PART 1 - GENERAL

- 1.1 **SUMMARY**
 - Section Includes: A.
- Adhered ethylene-propylene-diene-terpolymer (EPDM) roofing system. Roof insulation. Cover board. Walkways. JSTALLATION MEETINGS 1.
 - 2.
 - 3.
 - 4.

PREINSTALLATION MEETINGS 1.2

Preliminary Conference: Conduct conference at Project Α.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of prod
 - omponent fasteners, include copy of FM Approvals' 1. For insulation and roof syste RoofNav listing.
- Shop Drawings: Include nof plans, sections, details, and attachments to other work, including B. the following:
 - Layout and thickness if insulation. 1.
 - 2. and membrane terminations. Base flashin.
 - Flashing details at penetrations. 3.
 - Tapered insulation, thickness, and slopes. 4.
 - sulation fastening patterns for corner, perimeter, and field-of-roof locations. 5.

Samples: For the following products:

Roof membrane and flashings of color required.

Walkway pads of color required.

D. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

1.4 INFORMATIONAL SUBMITTALS

Manufacturer Certificates: A.

- 1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 - a. Submit evidence of complying with performance requirements.
- 2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.

- B. Product Test Reports: For components of roof membrane and insulation, for tests penameer by a qualified testing agency, indicating compliance with specified requirements.
- C. Sample warranties.
- 1.5 CLOSEOUT SUBMITTALS
 - A. Maintenance data.
- 1.6 QUALITY ASSURANCE
 - A. Manufacturer Qualifications: A qualified manufacturer that is UL listed for roofing system identical to that used for this Project.
 - B. Installer Qualifications: A qualified first unage approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard or customized form, without monetary limitation, in which manufacturer egrees to repair or replace components of EPDM roofing that fail in materials or workmanship within specified warranty period.
 - 1. Specific warranty includes EPDM roofing membrane, base flashings, fascia, roof insulation, fasteners, cover boards, roofing accessories, and other components of EPDM rofing, including Roof Specialties section 07 71 00.
 - Warranty Period: 20 years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of EPDM roofing such as roofing membrane, base flashing, fascia, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
- B. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D 3746, ASTM D 4272, or the Resistance to Foot Traffic Test in FM Approvals 4470.
- C. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials shall comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and shall be listed in FM Approvals' RoofNav for Class 1 or concernentstible construction, as applicable. Identify materials with FM Approvals Certification markings.
 - 1. Fire/Windstorm Classification: Class 1A-90.
 - 2. Hail-Resistance Rating: MH.
- D. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class B; for coplication and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- E. Fire-Resistance Ratings: Comply with fire-resistance rates assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

2.2 ETHYLENE-PROPYLENE-DIENE-TERPOLYMER (EPDM) ROOFING

- A. EPDM Sheet: ASTM D 4637/D 463714 Note II, scrim or fabric internally reinforced, EPDM sheet with factory-applied seam tape.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carlisle typice Incorporated.
 - b. Fire ton Building Products.
 - c. Johns Malville; a Berkshire Hathaway company.
 - 2. Thickness: 60 mils, nominal.
 - 3. Exposet Face Color: Black.

2.3 AUXILIARY ROOFING MATERIALS

otheral: Auxiliary materials recommended by roofing system manufacturer for intended use nd compatible with other roofing components.

- 1. Adhesive and Sealants: Comply with VOC limits of authorities having jurisdiction.
- B. Sheet Flashing: 60-mil-thick EPDM, partially cured or cured, according to application.
- C. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
- D. Bonding Adhesive: Manufacturer's standard.

- E. Modified Asphaltic Low VOC bonding Adhesive: Roofing system manufacturer's standard modified asphalt, asbestos-free, cold-applied adhesive formulated for compatibility and use with fabric-backed membrane roofing.
- F. Water-Based, Low VOC bonding Adhesive: Roofing system manufacturer's standard waterbased, cold-applied adhesive formulated for compatibility and use with fabric-backed membrane roofing.
- G. Seaming Material: Factory-applied seam tape, width as recommended by manufacturer.
- H. Lap Sealant: Manufacturer's standard, single-component sealant.
- I. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.
- J. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel r aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
- K. Miscellaneous Accessories: Provide pourable sealers, preformed core and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealarts, tremination reglets, cover strips, and other accessories.

2.4 ROOF INSULATION

- A. Composite Polyisocyanurate Board Institution ASTM C 1289, with factory-applied facing board on one major surface, as indicated below by type, and felt or glass-fiber mat facer on the other.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carlisle Vyrice Incorporated.
 - b. Fire ton, Building Products.
 - c. Johns Malville; a Berkshire Hathaway company.
 - 2. Face, Type VII, glass-mat-faced gypsum board facer, ¹/₄ inch thick.
 - 3. Size: 48 by 48 inches.
 - 4. Thickness:

As required to meet Insulation value of R-25. Provide a minimum of 2 layers of insulation.

Tapered Insulation: Provide factory-tapered insulation boards.

- 1. Material: Match roof insulation.
- 2. Minimum Thickness: 1/4 inch.
- 3. Slope:
 - a. Roof Field: 1/4 inch per foot unless otherwise indicated on Drawings.
 - b. Saddles and Crickets: 1/2 inch per foot unless otherwise indicated on Drawings.

2.5 INSULATION ACCESSORIES

- A. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosionresistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.
- B. Cover Board: ASTM C 208, Type II, Grade 2, cellulosic-fiber insulation board, 1/2 inch thick.

2.6 ASPHALT MATERIALS

- A. Roofing Asphalt: ASTM D 312/D 312M, Type III or Type IV.
- B. Asphalt Primer: ASTM D 41/D 41M.

2.7 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads, approximately 3/16 inch thick and acceptable to coofing system manufacturer.
 - 1. Size: Approximately30 by 30 inches
 - 2. Color: Contrasting with roof membrane.

PART 3 - EXECUTION

- 3.1 ROOFING INSTALLATION, GENERAL
 - A. Install roofing system according to coofing system manufacturer's written instructions, FM Approvals' RoofNav assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.
 - B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and distard temporary seals before beginning work on adjoining roofing.
 - C. Install roof membrane and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition.

3.2 INSULATION INSTALLATION

- Coordinate installing roofing system components so insulation is not exposed to precipitation or reft exposed at end of workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Installation Over Metal Decking:
 - 1. Install base layer of insulation with joints staggered not less than 24 inches in adjacent rows and with long joints continuous at right angle to flutes of decking.

- a. Locate end joints over crests of decking.
- b. Where installing composite and noncomposite insulation in two or more layers, install noncomposite board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.
- c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
- d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
- e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.
 - 1) Trim insulation so that water flow is unrestricted.
- f. Fill gaps exceeding 1/4 inch with insulation.
- g. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
- h. Loosely lay base layer of insulation units over substrate
- Mechanically attach base layer of insulation using mechanical fasteners specifically designed and sized for fastening specific beerd type roof insulation to metal decks.
 - 1) Fasten insulation according to requirements in FM Approvals' RoofNav for specified Windstorm Resistance classification.
 - 2) Fasten insulation to resist specified uplift pressure at corners, perimeter, and field of roof.
- 2. Install upper layers of insulation and tap red insulation with joints of each layer offset not less than 12 inches from previous layer of insulation.
 - a. Staggered end joints within each layer not less than 24 inches in adjacent rows.
 - b. Install with long joints continuous and with end joints staggered not less than 12 inchesin adjacent rows
 - c. Trim insulation nearly to fit around penetrations and projections, and to fit tight to intersecting doning roof decks.
 - d. Make joint, between adjacent insulation boards not more than 1/4 inch in width.
 - e. At internal roof drains, slope insulation to create a square drain sump with each side squar to the diameter of the drain bowl plus 24 inches.
 - Trim insulation so that water flow is unrestricted.
 - Fill gaps exceeding 1/4 inch with insulation.

Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.

Loosely lay each layer of insulation units over substrate.

Adhere each layer of insulation to substrate using adhesive according to FM Approvals' RoofNav assembly requirements and FM Global Property Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:

- 1) Set each layer of insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F of equiviscous temperature.
- 2) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
- 3) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.



3.3 INSTALLATION OF COVER BOARDS

- A. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.
 - 1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
 - 2. At internal roof drains, conform to slope of drain sump.
 - a. Trim cover board so that water flow is unrestricted.
 - 3. Cut and fit cover board tight to nailers, projections, and penetrations
 - 4. Loosely lay cover board over substrate.
 - 5. Adhere cover board to substrate using adhesive according to DM Approvals' RoofNav assembly requirements and FM Global Property Loss Pretention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:
 - a. Set cover board in ribbons of bead-applied insulation achesive, firmly pressing and maintaining insulation in place.
 - b. Set cover board in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.4 ADHERED ROOFING INSTALLATION

- A. Adhere roof membrane over area to environment according to roofing system manufacturer's written instructions.
- B. Unroll membrane roof membrane and allow to relax before installing.
- C. Start installation of roofing in presence of roofing system manufacturer's technical personnel and Owner technical and inspection agency.
- D. Accurately align root membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- E. Bonding Adhesive: Apply to substrate and underside of roof membrane at rate required by manufacturer, and allow to partially dry before installing roof membrane. Do not apply to splice are of roof membrane.

In addition to adhering, mechanically fasten roof membrane securely at terminations, penetrations, and perimeters.

Apply roof membrane with side laps shingled with slope of roof deck where possible.

- H. Factory-Applied Seam Tape Installation: Clean and prime surface to receive tape.
 - 1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
 - 2. Apply lap sealant and seal exposed edges of roofing terminations.

I. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

3.5 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.6 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products according to manufacturer's written instructions.
 - 1. Install flexible walkways at the following locations:
 - a. Perimeter of each rooftop unit.
 - b. Between each roution init location, creating a continuous path connecting rooftop unit locations.
 - c. Between each roof hatch and each rooftop unit location or path connecting rooftop unit locations.
 - d. Tor and ottom of each roof access ladder.
 - e. Between each roof access ladder and each rooftop unit location or path connecting rooftop unit locations.
 - ocations indicated on Drawings.

As required by roof membrane manufacturer's warranty requirements.

Provide 6-inchclearance between adjoining pads.

Adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.7 **PROTECTING AND CLEANING**

A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing system, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.8 ROOFING INSTALLER'S WARRANTY

- A. WHEREAS <Insert name> of <Insert address>, herein called the "Roofing Instaner," has performed roofing and associated work ("work") on the following project:
 - 1. Owner: <Insert name of Owner>.
 - 2. Address: <Insert address>.
 - 3. Building Name/Type: <Insert information>.
 - 4. Address: <Insert address>.
 - 5. Area of Work: <Insert information>.
 - 6. Acceptance Date: <Insert date>.
 - 7. Warranty Period: <Insert time>.
 - 8. Expiration Date: <Insert date>.
- B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant aid work against leaks and faulty or defective materials and workmanship for designated Warranty eriod,
- C. NOW THEREFORE Roofing Installation by warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made abject to the following terms and conditions:
 - 1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - . Ughtning;
 - a. 6. d.
 - pack gust wind speed exceeding <Insert wind speed> mph (m/s); fire;
 - failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and
 - g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
 - 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.

- 3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
- 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Ro fing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
- 5. During Warranty Period, if original use of roof is changed and a becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change but only to the extent said change affects work covered by this Warranty.
- 6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks defects, or deterioration.
- 7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of toofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.
- E. IN WITNESS THEREOF, this instrument has been duly executed this <Insert day> day of <Insert month>, <Insert year.
 - 1. Authorized Signature.
 - 2. Name: </r>
 - 3. Title: <Insert title>.

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SECTION 07 71 00

ROOF SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Copings.
 - 2. Roof-edge specialties.
 - 3. Roof-edge drainage systems.
 - 4. Reglets and counterflashings.
 - 5. Retrofit clamping collar and dome.
- B. Preinstallation Conference: Conduct conference at Project size
- 1.2 ACTION SUBMITTALS
 - A. Product Data: For each type of product.
 - B. Shop Drawings: For roof specialties
 - 1. Include plans, elevations, expension-joint locations, keyed details, and attachments to other work. Distinguish between plant- and field-assembled work.
 - C. Samples: For each type of roof specialty and for each color and texture specified.

1.3 INFORMATIONAL SUBMITTALS

A. Product Test keports: For tests performed by a qualified testing agency.

B. Sample warranty.

1.4 **SLOSEOUT SUBMITTALS**

Maintenance Data: For roofing specialties to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer offering products meeting requirements that are FM Approvals listed for specified class and SPRI ES-1 tested to specified design pressure.

1.6 WARRANTY

- A. Roofing-System Warranty: Roof specialties are included in warranty provisions in Section 07 53 23 - "Ethylene-Propylene-Diene-Monomer (EPDM) Roofing."
- B. Special Warranty on Painted Finishes: Manufacturer agrees to repair finish or replace roof specialties that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following
 - a. Color fading more than 5 Hunter units when tested according to ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTV 2-4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to one mend.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. FM Approvals' Listing: Manufacture and instal copilities and roof-edge specialties that are listed in FM Approvals' "RoofNav" and approved for condition classification, Class 1-90. Identify materials with FM Approvals' markings.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening or joints, hole elongation, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Provide clips that resist rotation and avoid shear stress as a result of thermal movements. Base calculations on surface temperatures of miterials due to both solar heat gain and nighttime-sky heat loss.
 - 1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

2.2 COPINGS

A. Metal Copings: Manufactured coping system consisting of metal coping cap in section lengths not exceeding 12 feet, concealed anchorage; with corner units, end cap units, and concealed splice plates with finish matching coping caps.

Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. Architectural Products, Co.
- b. Hickman Company, W.P.
- c. Metal-Era, Inc.
- 2. Formed Aluminum Sheet Coping Caps: Aluminum sheet, 0.050 inch thick.

- a. Surface: Smooth, flat finish.
- b. Finish: Two-coat fluoropolymer.
- c. Color: As selected by Architect from manufacturer's full range.
- 3. Corners: Factory mitered and continuously welded.
- 4. Coping-Cap Attachment Method: Snap-on or face leg hooked to continuous cleat with back leg fastener exposed, fabricated from coping-cap material.
 - a. Snap-on Coping Anchor Plates: Concealed, galvanized-steel sheet, 12 inches vide, with integral cleats.
 - b. Face-Leg Cleats: Concealed, continuous galvanized-steel sheet.

2.3 ROOF-EDGE SPECIALTIES

- A. Canted Roof-Edge Fascia and Gravel Stop: Manufactured, two-pieve, roof-edge fascia consisting of compression-clamped metal fascia cover in section lengths not exceeding 12 feet and a continuous formed galvanized-steel sheet cant, 0.028 inch thick, minimum, with extended vertical leg terminating in a drip-edge cleat. Provide matching come units.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Architectural Products, Co.
 - b. Hickman Company, W.P.
 - c. Metal-Era, Inc.
 - 2. Formed Aluminum Sheet Fascia Covers: Aluminum sheet, 0.050 inch thick.
 - a. Surface: Smooth flat thish.
 - b. Finish: Two-coat huoropolymer.
 - c. Color: As selected by Architect from manufacturer's full range.
 - 3. Corners: Lactory mittered and continuously welded.
 - 4. Splice Places: Concealed, of same material, finish, and shape as fascia cover.
 - 5. Fascia Accessories: Fascia extenders with continuous hold-down cleats, Wall cap, Soffit trim, and Overflow scuppers.
- B. One-Place Gravel Stops: Manufactured, one-piece, metal gravel stop in section lengths not exceeding 12 feet, with a horizontal flange and vertical leg fascia terminating in a drip edge, and concealed splice plates of same material, finish, and shape as gravel stop. Provide matching corner units.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Architectural Products, Co.
 - b. Hickman Company, W.P.
 - c. Metal-Era, Inc.
 - 2. Formed Aluminum Sheet Gravel Stops: Aluminum sheet, 0.050 inch thick.

- a. Surface: Smooth, flat finish.
- b. Finish: Two-coat fluoropolymer.
- c. Color: As selected by Architect from manufacturer's full range.
- 3. Corners: Factory mitered and continuously welded.
- 4. Accessories: Fascia extenders with continuous hold-down cleats.

2.4 ROOF-EDGE DRAINAGE SYSTEMS

- 1. Manufacturers: Subject to compliance with requirements, provide products by and of the following:
 - a. Architectural Products, Co.
 - b. Hickman Company, W.P.
 - c. Metal-Era, Inc.

B. Gutters: Manufactured in uniform section lengths not exceeding 12 feet, with matching corner units, ends, outlet tubes, and other accessories. Elevate back edge at least 1 inch above front edge. Furnish flat-stock gutter straps, gutter brackets, excession joints, and expansion-joint covers fabricated from same metal as gutters.

- 1. Aluminum Sheet: 0.063 inch thick.
- 2. Gutter Profile: Style K according to SMACNA's "Architectural Sheet Metal Manual."
- 3. Corners: Factory mitered and continuously welded.
- 4. Gutter Supports: Gutter brackets with much matching the gutters.
- C. Downspouts: Plain rectangular complete with mitered elbows, manufactured from the following exposed metal. Furnish with metal hangers, from same material as downspouts, and anchors.
 - 1. Formed Alumi um 0.063 inch thick.
- D. Parapet Scuppers: Manufactured with closure flange trim to exterior, 4-inch-wide wall flanges to interior, and base extending 4 inches beyond cant or tapered strip into field of roof.
 - 1. Former Aluminum: 0.050 inch thick.
- E. Aluminum Finish: Two-coat fluoropolymer.

Color: As selected by Architect from manufacturer's full range.

2.5 **REGLETS AND COUNTERFLASHINGS**

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Castle Metal Products.
 - 2. Hickman Company, W.P.
 - 3. Metal-Era, Inc.

- B. Reglets: Manufactured units formed to provide secure interlocking of separate reglet and counterflashing pieces, from the following exposed metal:
 - 1. Formed Aluminum: 0.050 inch thick.
 - 2. Corners: Factory mitered and continuously welded.
 - 3. Surface-Mounted Type: Provide reglets with slotted holes for fastening to substrate, with neoprene or other suitable weatherproofing washers, and with channel for sealant at top edge.
 - 4. Concrete Type, Embedded: Provide temporary closure tape to keep reglet free of concrete materials, special fasteners for attaching reglet to concrete forms, and guides to ensure alignment of reglet section ends.
 - 5. Masonry Type, Embedded: Provide reglets with offset top flange for embeliment in masonry mortar joint.
 - 6. Multiuse Type, Embedded: For multiuse embedment.
- C. Counterflashings: Manufactured units of heights to overlap top elges of base flashings by 4 inches and in lengths not exceeding 12 feet designed to snap interceder and compress against base flashings with joints lapped, from the following exposed netal:
 - 1. Formed Aluminum: 0.050 inch thick.
- D. Accessories:
 - 1. Flexible-Flashing Retainer: Provide resident plastic or rubber accessory to secure flexible flashing in reglet where clearance does not permit use of standard metal counterflashing or where reglet is provided separate from metal counterflashing.
 - 2. Counterflashing Wind-Restraint Cips: Provide clips to be installed before counterflashing to prevent wind uplft of counterflashing lower edge.
- E. Aluminum Finish: Two-coat Luoro olymer.
 - 1. Color: As selected as Architect from manufacturer's full range.
- 2.6 MATERIAL
 - A. Aluminum Steet: ASTM B 209, alloy as standard with manufacturer for finish required, with temper to suit forming operations and performance required.

2.7 UNDERLAYMENT MATERIALS

- elf-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils thick, consisting of slipresisting polyethylene-film top surface laminated to layer of butyl or SBS-modified asphalt adhesive, with release-paper backing; cold applied. Provide primer when recommended by underlayment manufacturer.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carlisle Coatings & Waterproofing, Inc.

- b. Metal-Fab Manufacturing, a Drexel Metals Company.
- c. Owens Corning.
- 2. Thermal Stability: ASTM D 1970/D 1970M; stable after testing at 240 deg F.
- 3. Low-Temperature Flexibility: ASTM D 1970/D 1970M; passes after testing at minus 20 deg F.

2.8 MISCELLANEOUS MATERIALS

- A. Fasteners: Manufacturer's recommended fasteners, suitable for application and design dog meet performance requirements. Furnish the following unless otherwise indicated:
 - 1. Exposed Penetrating Fasteners: Gasketed screws with hex washer heads hatching color of sheet metal.
 - 2. Fasteners for Copper Sheet: Copper, hardware bronze, or passivated Series 300 stainless steel.
 - 3. Fasteners for Aluminum: Aluminum or Series 300 stainless stre
 - 4. Fasteners for Stainless-Steel Sheet: Series 300 stainless st
 - 5. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: ceries 300 stainless steel or hot-dip zinc-coated steel according to ASTM A 153/A 153N or ASTM F 2329.
- B. Elastomeric Sealant: ASTM C 920, elastomeric polyuremane silicone polymer sealant of type, grade, class, and use classifications required by roofing-specialty manufacturer for each application.
- C. Butyl Sealant: ASTM C 1311, ingle component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy todied for hooked-type joints with limited movement.

2.9 FINISHES

- A. Coil-Coated Galvanize' Steel Sheet Finishes:
 - 1. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfices to comply with ASTM A 755/A 755M and coating and resin manufacturers' written instructions.

Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat.

Coated Aluminum Sheet Finishes:

- High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - a. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat.

2.10 RETROFIT CLAMPING COLLAR AND DOME

A. Basis of Design Product: Subject to compliance with requirements, provide Jay R. Smith Mfg. Co. Universal Roof Drain Membrane clamping collar and dome or comparable product.

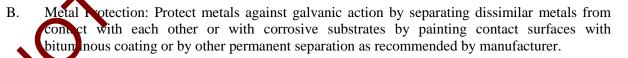
PART 3 - EXECUTION

3.1 UNDERLAYMENT INSTALLATION

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Appl, which a free, in shingle fashion to shed water, and with end laps of not less than 6 inclus staggared 24 inches between courses. Overlap side edges not less than 3-1/2 inches. Rell laps with roller. Cover underlayment within 14 days.
 - 1. Apply continuously under copings, roof-edge specialties, and reglets and counterflashings.
 - 2. Coordinate application of self-adhering sheet unterlayment under roof specialties with requirements for continuity with adjacent air barrier materials.

3.2 INSTALLATION, GENERAL

- A. General: Install roof specialties according to manufacturer's written instructions. Anchor roof specialties securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective contings, separators, underlayments, sealants, and other miscellaneous items as required to complete roof-specialty systems.
 - 1. Install roof specialties level, plumb, true to line and elevation; with limited oil-canning and without wa pin, jogs in alignment, buckling, or tool marks.
 - 2. Provide uniform, teat seams with minimum exposure of solder and sealant.
 - 3. Install roof specialities to fit substrates and to result in weathertight performance. Verify shapes an dimensions of surfaces to be covered before manufacture.
 - 4. Tore a critting of roof specialties is not permitted.
 - 5. Do not use graphite pencils to mark metal surfaces.



Coat concealed side of uncoated aluminum roof specialties with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.

- C. Expansion Provisions: Allow for thermal expansion of exposed roof specialties.
 - 1. Space movement joints at a maximum of 12 feet with no joints within 18 inches of corners or intersections unless otherwise indicated on Drawings.

- 2. When ambient temperature at time of installation is between 40 and 70 deg F, set joint members for 50 percent movement each way. Adjust setting proportionately for installation at higher ambient temperatures.
- D. Fastener Sizes: Use fasteners of sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.
- E. Seal concealed joints with butyl sealant as required by roofing-specialty manufacturer.
- F. Seal joints as required for weathertight construction. Place sealant to be completely conceased in joint. Do not install sealants at temperatures below 40 deg F.

3.3 COPING INSTALLATION

- A. Install cleats, anchor plates, and other anchoring and attachment accessories and devices with concealed fasteners.
- B. Anchor copings with manufacturer's required devices, fartners and fastener spacing to meet performance requirements.
 - 1. Interlock face and back leg drip edges of snap on coping cap into cleated anchor plates anchored to substrate at manufacturers required spacing that meets performance requirements.
 - 2. Interlock face-leg drip edge into continuous cleat anchored to substrate at manufacturer's required spacing that meets performance requirements. Anchor back leg of coping with screw fasteners and elastomeric wathers at 24-inch centers manufacturer's required spacing that meets performance requirements.

3.4 ROOF-EDGE SPECIALITIES INSTALLATION

- A. Install cleats, cants, and other anchoring and attachment accessories and devices with concealed fasteners.
- B. Anchor root edgings with manufacturer's required devices, fasteners, and fastener spacing to meet perform once requirements.

3.5 ROOF-EDGE DRAINAGE-SYSTEM INSTALLATION

caneral: Install components to produce a complete roof-edge drainage system according to nanufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof-edge drainage system.

- B. Gutters: Join and seal gutter lengths. Allow for thermal expansion. Attach gutters to firmly anchored gutter supports spaced not more than 12 inches apart. Attach ends with rivets and seal with sealant to make watertight. Slope to downspouts.
 - 1. Install gutter with expansion joints at locations indicated but not exceeding 50 feet apart. Install expansion-joint caps.

- C. Downspouts: Join sections with manufacturer's standard telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls and 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c.
 - 1. Provide elbows at base of downspouts at grade to direct water away from building.
 - 2. Connect downspouts to underground drainage system indicated.
- D. Parapet Scuppers: Install scuppers through parapet where indicated. Continuously support scupper, set to correct elevation, and seal flanges to interior wall face, over cants or tapered edge strips, and under roofing membrane.

3.6 REGLET AND COUNTERFLASHING INSTALLATION

- A. Surface-Mounted Reglets: Install reglets to receive flashings where flushing without embedded reglets is indicated on Drawings. Install at height so that inserted counterflashings overlap 4 inches over top edge of base flashings.
- B. Counterflashings: Insert counterflashings into reglets or other indicated receivers; ensure that counterflashings overlap 4 inches over top edge of basis flashings. Lap counterflashing joints a minimum of 4 inches and bed with butyl sealant. Fite ounterflashings tightly to base flashings.

3.7 CLAMPING COLLAR AND DOME INSTALLATI

- A. Install clamping collar and dome in accordance with manufacturers' instructions.
- B. Tap out existing dome bolt threads to ensure new fasteners properly clamp collar in place.

3.8 CLEANING AND PROTECTION

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean and reutralize flux materials. Clean off excess solder and sealants.
- C. Remove temporary protective coverings and strippable films as roof specialties are installed.



SECTION 07 71 29

MANUFACTURED ROOF EXPANSION JOINTS

PART 1 - GENERAL

- 1.1 **SUMMARY**
 - A. Section Includes:
 - 1. Flanged bellows-type roof expansion joints.
- 1.2 PREINSTALLATION MEETINGS
- Preinstallation Conference: Conduct conference at Project A.
- 1.3 ACTION SUBMITTALS
 - Product Data: For each type of product. A.
 - Shop Drawings: For roof expansion join Β.
 - C. Samples: For each exposed product and for each color specified.

INFORMATIONAL SUBMI 1.4

- Qualification data. A.
- B. Product test rep rts
- C. Sample wa
- **ASSURANCE** 1.5 ALL
 - er Qualifications: Installer of roofing membrane.

WARRANTY

- A. Special Warranty: Manufacturer and Installer agree to repair or replace roof expansion joints and components that leak, deteriorate beyond normal weathering, or otherwise fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.

- B. Special Warranty on Painted Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace roof expansion joints that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 FLANGED BELLOWS-TYPE ROOF EXPANSION JOINTS

- A. Flanged Bellows-Type Roof Expansion Joint: Factory-fabricated, continuous, waterproof joint cover consisting of exposed membrane bellows laminated to flexible, closed-centsupport foam, and secured along each edge to 3- to 4-inch-wide metal flange.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Architectural Art Manufacturing Inc.; a division of Pittcon Architectural Metals, LLC.
 - b. Johns Manville; a Berkshire Hathaway company
 - c. Watson Bowman Acme Corp.
 - 2. Source Limitations: Obtain flanged celleus-type roof expansion joints approved by roofing manufacturer and that are part or pofing membrane warranty.
 - 3. Bellows: EPDM flexible membrare, pominal 60 mils thick.
 - 4. Flanges: Galvanized steel, 0.022 inch thick.
 - 5. Corner, Intersection, and Transmion Units: Provide factory-fabricated units for corner and joint intersections and forizontal and vertical transitions including those to other building expansion joints.
 - Accessories: Provide splicing units, adhesives, and other components as recommended by roof-expansion-point manufacturer for complete installation.
 Secondari Seah Continuous, waterproof membrane within joint and attached to substrate
 - 7. Secondar (Seah Continuous, waterproof membrane within joint and attached to substrate on sides of joint below the primary bellows assembly.



rain-Tube Assemblies: Equip secondary seal with drain tubes and seals to direct collected moisture to exterior-wall expansion joint cover.

Thermal Insulation: Fill space above secondary seal with manufacturer's standard, factory-installed mineral-fiber insulation; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84.

- 1. Galvanized-Steel Sheet: ASTM A 653/A 653M, hot-dip zinc-coating designation G90.
- 2. Stainless-Steel Sheet: ASTM A 240/A 240M or ASTM A 666, Type 304.
- 3. EPDM Membrane: ASTM D 4637/D 4637M, type standard with manufacturer for application.

2.2 MISCELLANEOUS MATERIALS

- A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to withstand design loads.
 - 1. Exposed Fasteners: Gasketed. Use screws with hex washer heads matching color of material being fastened.
- B. Mineral-Fiber Blanket: ASTM C 665.
- C. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D 1/67.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Comply with manufacturer's written instructions for handling and installing roof expansion joints.
 - 1. Anchor roof expansion joints securely in place with provisions for required movement. Use fasteners, protective coatings, sealants, and miscellaneous items as required to complete roof expansion joints.
 - 2. Install roof expansion joints true to knew delevation; and without warping, jogs in alignment, buckling, or tool marks.
 - 3. Provide for linear thermal expansion of roof expansion joint materials.
- B. Directional Changes: Instal/factory faoricated units at directional changes to provide continuous, uninterrupted, and water ight joints.
- C. Transitions to Other Expansion-Control Joint Assemblies: Coordinate installation of roof expansion joints where other exterior expansion-control joint assemblies specified in Section 079513.6 "Exterior Expansion Joint Cover Assemblies" to result in watertight performance Initial factory-fabricated units at transitions between roof expansion joints and exterior expansion-control joint systems.
- D. Splices: Splice roof expansion joints to provide continuous, uninterrupted, and waterproof joints.

Install waterproof splices and prefabricated end dams to prevent leakage of secondaryseal membrane.

Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.



SECTION 07 92 00

JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
 - A. Section Includes:
 - 1. Silicone joint sealants.
 - 2. Urethane joint sealants.
 - 3. Preformed joint sealants.

1.3 SUBMITTALS, GENERAL

A. General: Submit all action submittele (except Samples for Verification) and informational submittals required by this Section concurrently.

1.4 ACTION SUBMITTALS

- A. Product Data: For each intersealant product indicated.
 - 1. Single-component, nonsag, neutral-curing silicone joint sealant.
 - 2. Single-component, nonsag, urethane joint sealant.
 - 3. Bond breaker tape.
 - 4. Primer.

7.

- 5. Cleaners for nonporous surfaces.
- Misking tape.
 - Cylindrical sealant backings.

Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

- C. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch-wide joints formed between two 6-inch-long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
- D. Joint-Sealant Schedule: Include the following information:
 - 1. Joint-sealant application, joint location, and designation.

- 2. Joint-sealant manufacturer and product name.
- 3. Joint-sealant formulation.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.
- C. Product Test Reports: Based on evaluation of comprehensive tests performed by chalified testing agency, indicating that sealants comply with requirements.
 - 1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
 - 2. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized to presentative who is trained and approved for installation of units required for this Project
- B. Source Limitations: Obtain each kind of joint sealant from single source from single manufacturer.

1.7 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 - 1. When ambient and substrate temperature conditions are outside limits permitted by jointsealant manufacturer or are below 40 deg F.
 - 2. When joint substrates are wet.
 - 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
 - 4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PARTY PRODUCTS

- 2.1 MATERIALS, GENERAL
 - A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

- B. VOC Content of Interior Sealants: Sealants and sealant primers used inside the weatherproofing system shall comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - 1. Architectural Sealants: 250 g/L.
 - 2. Sealant Primers for Nonporous Substrates: 250 g/L.
 - 3. Sealant Primers for Porous Substrates: 775 g/L.
- C. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing AS w C 20 classifications for type, grade, class, and uses related to exposure and joint substrates.
- D. Stain-Test-Response Characteristics: Where sealants are specified to be pointaining to porous substrates, provide products that have undergone testing according to AoCM C1248 and have not stained porous joint substrates indicated for Project.
- E. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.2 SILICONE JOINT SEALANTS

- A. Single-Component, Nonsag, Neutral-Curing Silicon Joint Sealant: ASTM C 920, Type S, Grade NS, Class 100/50, for Use NT.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include out an not limited to, the following:
 - a. Dow Corning Corporation; 7 0.
 - b. GE Advanced Maerials Silicones; SilPruf LM SCS2700.
 - c. Pecora Corporation; 89).
 - d. Tremco Incorporated, spectrem 1.
- 2.3 URETHANE JOINT VENLANTS
 - A. Single-Component, Nonsag, Urethane Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.

roducts: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

- BASF Building Systems; Sonolastic NP1.
- b. Pecora Corporation; Dynatrol I-XL.
- c. Sika Corporation, Construction Products Division; Sikaflex 1a.
- d. Tremco Incorporated; Dymonic.

2.4 JOINT SEALANT BACKING

a.

A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

- B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.
- C. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin) or Type O (open-cell material), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

2.5 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for ad esion of sealant to joint substrates indicated, as determined from preconstruction joint sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material competible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Beginning installation constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION

Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to omply with joint-sealant manufacturer's written instructions and the following requirements:

- Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
- 2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air.
- 3. Remove laitance and form-release agents from concrete.

- 4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or prevent with adjoining surfaces that otherwise would be permanently stained or damaged by acceptate or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement equability.
 - 1. Do not leave gaps between ends of lealant backings.
 - 2. Do not stretch, twist, puncture, the real sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install bond-breaker tage behind sealants where sealant backings are not used between sealants and backs of joints.
- E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - Nace sealants so they directly contact and fully wet joint substrates.

Completely fill recesses in each joint configuration.

Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

- 1. Remove excess sealant from surfaces adjacent to joints.
- 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.

- 3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.
- G. Installation of Preformed Foam Sealants: Install each length of sealant immediately after removing protective wrapping. Do not pull or stretch material. Produce seal continuity at ends, turns, and intersections of joints. For applications at low ambient temperatures, apply heat to sealant in compliance with sealant manufacturer's written instructions.

3.4 CLEANING

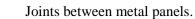
A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint scalars and of products in which joints occur.

3.5 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operation or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.6 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Exterior joints up to 1 inch wide in horizontal nontraffic surfaces.
 - 1. Joint Locations:
 - a. Control and expansion joints.
 - b. Other joints as indicated.
 - 2. Joint Sealant: Single component, nonsag, urethane joint sealant.
- B. Joint-Sealah Application: Exterior joints in vertical surfaces.
 - 1. **Content** Locations:



- Joints between different materials.
- c. Other joints as indicated.
- 2. Joint Sealant: Single component, nonsag, neutral curing, silicone joint sealant.