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SECTION I:
NOTICE TO BIDDERS
SECTION I: NOTICE TO BIDDERS

FASHION INSTITUTE OF TECHNOLOGY
EAST COURTYARD ROOF REPLACEMENT
INVITATION FOR BID NUMBER C1610

For the purposes of this project (the “Project”) the Fashion Institute of Technology and its auxiliary dormitory organization, the F.I.T. Student Housing Corporation, shall hereinafter be collectively referred to as “FIT” unless otherwise distinguished herein. Neither the Fashion Institute of Technology nor F.I.T. Student Housing Corporation will be responsible for receipt of any Bid which does not comply with the instructions as set forth further in this document.

FIT is ONLY accepting electronic scanned bids for the subject project. You must email your bid to purchasingbids@fitnyc.edu in PDF format and it should include all the requested documents (See Attachment A – Bid Checklist) including a scanned image of your bid security (Certified Check of 2 percent or Bid Bond of 10 percent of your total bid price), we’ll also need you to mail us the original copy of the bid security to have on file. The bid security must either be mailed to 227 W 27th Street, New York, NY 10001 or dropped off at 333 7th Avenue (16th Floor), New York, NY 10001. Bids must be received by February 23, 2024, on or before 12:00 P.M. All bidders will be notified of the bid results by the end of the bid due date. Bid results are not official until each package has been fully reviewed.
Bidder shall meet the following requirements and submit necessary information with the Bid. Failure to comply with these requirements shall be grounds for rejection of your Bid.

- Did you attend the mandatory site inspection?
- Did you include all required documentation? (As per Bidder Requirements – i.e. proof of being in business, permits, licenses, certifications, etc.)
- Did you include the Form of Bid? (See Section VIII.)
- Did you include the Non-Collusive Bidding Certification? (See Section IX.)
- Did you complete in full the Bid Analysis Form, (See Attachment C)
- Did you sign for each Addendum to this project, if any were published? (It is the contractor’s responsibility to check FIT’s “Current Bid Opportunities” webpage for addendums prior to submitting their bid.)
  
  [Link](https://www.fitnyc.edu/about/administration/finance/purchasing/current-bids.php)

- Did you complete the Contractor Reference Sheet? **Do not list FIT as your projects of similar size and scope.** (See Attachment B)
- Can you provide the required levels of insurance coverage? See: General Conditions – Article 15
- Did you include the Bid Security?
- Can the bidder provide references to at least three (3) different prior contracts that have been completed within the past five (5) years that are similar in size and scope to the project indicated for this Contract?
- Did you provide proof of years in business/date of incorporation?
- Sub-contracting percentage shall **not exceed 35%** of the project cost.
- Did you include an audited or reviewed financial report for the last two (2) years with your bid?
ATTACHMENT B - CONTRACTOR REFERENCE SHEET

FASHION INSTITUTE OF TECHNOLOGY
EAST COURTYARD ROOF REPLACEMENT
INVITATION FOR BID NUMBER C1610

FIT requests a minimum of three references for completed projects of similar size and scope. Please complete the following information for each reference: (Do not list FIT as your projects of similar size and scope.)

Contact Name/Title: _____________________________________________________
Company Name/Address: _________________________________________________
Phone Number: _________________________________________________________
Project Name: _________________________________________________________
Project Cost: ___________________________________________________________
Project Start/End Date: __________________________________________________

For FIT Use Only – Reference Responses
Quality of Work: _____________ Site Maintenance: ______________
Scheduling: ___ Cooperation: ___ Safety Standards: ______________
Permits: _____________ Report Submittals: _____ Payments: _____
Other Relevant Factors: __________________________________________________
Overall Performance Rating: Excellent___ Satisfactory___ Marginal___ Unsatisfactory___

Contact Name/Title: _____________________________________________________
Company Name/Address: _________________________________________________
Phone Number: _________________________________________________________
Project Name: _________________________________________________________
Project Cost: ___________________________________________________________
Project Start/End Date: __________________________________________________

For FIT Use Only – Reference Responses
Quality of Work: _____________ Site Maintenance: ______________
Scheduling: ___ Cooperation: ___ Safety Standards: ______________
Permits: _____________ Report Submittals: _____ Payments: _____
Other Relevant Factors: __________________________________________________
Overall Performance Rating: Excellent___ Satisfactory___ Marginal___ Unsatisfactory___

Contact Name/Title: _____________________________________________________
Company Name/Address: _________________________________________________
Phone Number: _________________________________________________________
Project Name: _________________________________________________________
Project Cost: ___________________________________________________________
Project Start/End Date: __________________________________________________

For FIT Use Only – Reference Responses
Quality of Work: _____________ Site Maintenance: ______________
Scheduling: ___ Cooperation: ___ Safety Standards: ______________
Permits: _____________ Report Submittals: _____ Payments: _____
Other Relevant Factors: __________________________________________________
Overall Performance Rating: Excellent___ Satisfactory___ Marginal___ Unsatisfactory___

FIT
Interviewer: __________________ Signature: ____________________ Date: __________
SECTION II: BID TERMS AND CONDITIONS
I. INTRODUCTION

The Fashion Institute of Technology, a community college of art and design, business and technology of the State University of New York, currently has an enrollment of approximately 10,000 full and part-time students. Located in the Chelsea area of Manhattan, FIT’s facilities are composed of a twelve-building complex containing administrative/academic offices, classrooms, computer labs, and studios. There are three (3) residence halls located on West 27th Street that currently house approximately 1,250 students and one (1) residence hall located at 406 West 31st Street that houses approximately 1,100 students. F.I.T. Student Housing Corporation is a separate, not-for-profit corporation that was established pursuant to the laws of the State of New York to own and operate these residence halls for the benefit of the College and its students. For purposes of this project all references to FIT shall be recognized to refer to the Fashion Institute of Technology (hereafter, “FIT” or the “College”) and the F.I.T. Student Housing Corporation together, unless specifically designated otherwise. The successful responsive and responsible bidder (hereinafter “Contractor”) shall be required to enter into a contract with FIT based on the Contract Documents, (including Notice to Bidders, Bid Terms and Conditions, Contract Terms and Conditions, General Requirements, General Conditions, Labor & Material Payment Bond, Performance Bond, Form of Bid, Non-Collusive Bidding Certification, Substitution Form Request, Contract, Affirmative Action Form, Change Order, Form, Contractor’s Trade Payment Breakdown, Safety EHS Plan, Prevailing Wage Schedule, Specifications, and Drawings), attached hereto and incorporated herein.

II. SUMMARY OF SCOPE OF WORK

The Work of the Project is defined by the immediately following Project Description herein below and by the Contract Documents.

Project Description: Provide labor, materials, tests, tools and equipment to complete the roof replacement of the East Courtyard. Contractor may begin procurement of materials and survey of existing conditions following award. A detailed scope of work is outlined in specification Section 011100 “Summary of Work.”

This work will require coordination with a separate job for “East Courtyard Air Handler Units Replacement, C1558” and the work will happen concurrently with full cooperation by both contractors.

The installation of all equipment in accordance with the Manufacturer’s Installation/Operation & Maintenance Manuals & Instructions shall be followed.

III. BIDDER REQUIREMENTS
Bidder shall meet the following requirements and submit necessary information with the Bid. Failure to comply with these requirements shall be grounds for rejection of your Bid. FIT reserves the right to reject bids with incomplete information or bid security, or contain conditions not specified in the Bid Terms and Condition herein, or which are presented on a different form other than that provided to bidders. FIT reserves the right to determine whether a Bidder has substantially met all the Bid requirements and to ask for additional information prior to making such a determination.

A. **Bidder shall have been primarily a General Contractor in the roof renovation business for a minimum of five (5) years as of the Bid Opening Date. Proof shall be submitted with the Bid.**

B. **Bidder shall have satisfactorily performed work of the size, scope and nature to be performed under this Contract, as evidenced by references from at least three (3) different successfully completed contracts in an installation similar to those indicated for this Contract in the past five (5) years.** Bidder shall include for each reference: project location, dollar value of contract; initiation and completion date, name, title, address and telephone number of contact person. References cannot be members of FIT staff or FIT consultants.

C. **Bidder shall attend the mandatory pre-bid meeting and site inspection. Failure to comply with this requirement shall be grounds for rejection of the Bid.**

D. **Bidder is responsible for all necessary field measurements, all necessary data on the existing conditions and verification of all quantities and dimensions listed in the Project Specifications and Drawings, if applicable.**

E. **By submitting a Bid, Bidder agrees that s/he has examined the Contract Documents, visited the site, noted all conditions and limitations affecting the Work, and fully understands the nature of the Work. Bidder is required to inform FIT in writing immediately of any instance where changed conditions are encountered.**

F. **Bidder shall submit documentation of financial viability, including balance sheets and profit and loss statement for the prior two (2) years, with the Bid.**

G. **Bidder, upon request, shall submit copies of current licenses and certifications applicable to the work, including, but not limited to, licenses issued by the Commissioner of Buildings of the City of New York. Proof of the following certificates will also be required: 10 Hour OSHA Outreach Training Program; Asbestos Awareness Training, FDNY Certificate of Fitness, with the Bid.**

IV. **APPROVAL OF SUBCONTRACTORS**
Subcontracting shall be permitted not to exceed 35% of the work of the Project as determined by FIT. The ratio of the contractors and subcontractors work must be included with your bid submission. All subcontractors are required to gain prior written approval by FIT’s Facilities Director. The General Contractor will be the Prime Contractor (hereinafter “Contractor) and shall not be permitted to Subcontract the following types of Services:

- N/A

The Contractor will require that the terms of this Contract apply to the sub-contractors and shall cause all sub-contractors to comply with the terms of this contract.

V. **BID SECURITY**

Failure to provide Bid Security in the prescribed manner shall result in the rejection of the Bid.

Bidder shall provide Bid Security in the form of either a bid deposit or a bid bond, at Bidders option. The bid deposit shall be in the form of a certified check made payable to “Fashion Institute of Technology” in an amount no less than two percent (2%) of the total bid price. The bid bond shall be in an amount no less than ten percent (10%) of the total bid price.

VI. **PRE-BID SITE INSPECTION AND QUESTIONS**

A mandatory Pre-Bid Site Inspection for prospective Bidders will be held on **February 2, 2024 at 10:00 A.M.** at the Fashion Institute of Technology, Feldman “C Building” Lobby, located at 227 West 27th Street (between 7th and 8th Avenue). We highly encourage the Bidder to invite their sub-contractors as this will be the one and only site visit prior to awarding the project. **Failure to attend shall be grounds for rejection of your Bid. Please also bring a business card.**

Bidder shall examine the Bid documents carefully. Before bidding, Bidder shall make any requests for interpretation of Bid documents or clarification of any ambiguity therein that should have been detected by a reasonably prudent Bidder. Questions shall be submitted in writing to the attention of Purchasing Department via email: purchasingbids@fitnyc.edu, no later than **February 13, 2024 on or before 3:00 P.M.** Answers shall be provided in the form of and Addendum and be posted on the FIT purchasing department website. Reference Bid number **C1610.**
VII. **BID DESIGNATION**

A. FIT is **ONLY** accepting electronic scanned bids for the subject project. You must email your bid to purchasingbids@fitnyc.edu in PDF format and it should include all the requested documents (See Attachment A – Bid Checklist) including a scanned image of your bid security (Certified Check of 2 percent or Bid Bond of 10 percent of your total bid price), we’ll also need you to mail us the original copy of the bid security to have on file. The bid security must either be mailed to 227 W 27th Street, New York, NY 10001 or dropped off at 333 7th Avenue (16th Floor), New York, NY 10001. Bids must be received by **February 23, 2024, on or before 12:00 P.M.** All bidders will be notified of the bid results within the hour. Bid results are not official until each package has been fully reviewed.

B. Bids received late will not be considered.

VIII. **PREPARATION OF THE BIDS**

A. Bids must be submitted on the forms supplied by FIT in the Bidder’s full legal name or the Bidder’s full legal name plus a registered assumed name. All blank spaces for bid prices must be filled in, using both words and figures, words to take precedence over figures. **Conditional bids shall not be accepted.** Bids shall not contain any recapitulation of the Work to be done. Bidder exclusions shall be grounds for bid rejection. Do not modify the bid forms supplied by FIT.

B. Bids that are illegible or that contain omission, alterations, additions or items not called for in the bidding documents may be rejected as not responsive. Any bid which modifies, limits, or restricts all or any part of such bid, other than as expressly provided for in the Notice to Bidders, Bid Terms and Conditions, and Contract Terms and Conditions, may be rejected as not responsive.

C. FIT may reject any bid not prepared and submitted in accordance with the provisions of the Notice to Bidders, Bid Terms and Conditions, and Contract Terms and Conditions. Neither FIT nor the FIT Student Housing Corporation will be responsible for receipt of any Bid which does not comply with these instructions. Only those Bids emailed to the FIT Purchasing Dept. inbox (purchasingbids@fitnyc.edu) on or before **February 23, 2024, on or before 12:00 P.M** will be considered.

D. Any bid may be withdrawn prior to the scheduled time for the opening of bids or authorized postponement thereof and any bid received after such time and date shall not be considered.

E. No Bidder may withdraw a bid within ninety (90) days after the actual date of the opening thereof.

IX. **AWARD OF CONTRACT**

A. The award of the Contract shall be made to the Bidder submitting the lowest responsible bid if, in the opinion of FIT, the bid is responsive to the bid solicitation,
and such Bidder is responsible and qualified to perform the work involved in the sole discretion of FIT. The lowest bidder will be considered the contractor with the lowest bid for the base bid. In case FIT will decide to include the ‘alternate’ in the scope of work, the lowest bidder will be considered the contractor with the lowest total of the base bid plus the alternate bid.

B. FIT reserves the right to reject any bid or all bids, to waive any informalities or irregularities or omissions in any bid received.

C. During the term of the Contract, the Contractor shall promptly notify FIT of any change in the ownership of the Contractor. Failure to notify FIT may result in termination of the Contract.

D. FIT reserves the right, exercisable in its sole discretion, to cancel and withdraw from the Project at any time in advance of the award.

E. Prior to the opening of the bids, Bidder shall promptly notify FIT of Change in ownership of the Bidder. Failure to notify with this bid shall be grounds for rejection of the Bid.

X. **DAMAGES FOR FAILURE TO ENTER INTO CONTRACT**

The successful Bidder, upon failure or refusal to execute and deliver the Contract and bond required within ten (10) days after such Bidder has received notice of the acceptance of such bid, shall forfeit to FIT as damages for such failure or refusal, the security deposited with the Bid or the sum of the difference between the total bid of the successful Bidder and the total bid of the Bidder submitting the next lowest bid, whichever sum shall be higher.

XI. **PREVAILING WAGE**

This contract is subject to New York State Labor Law 220, Article 8 Prevailing Wage Schedules. The Contractor shall submit with, each invoice, certified payrolls for all labor. Submission of a Certified Payroll with invoice in full compliance with labor laws is a condition of payment.

Contractor and its subcontractors shall pay at least the prevailing wage rate and pay or provided the prevailing supplements in accordance with the Labor Law.

A copy of the prevailing wage schedule, for New York County, can be found at the New York State Department of Labor website. (PRC# 2023014301)

www.labor.ny.gov

Bidder must also comply with all applicable federal, state, and local laws rules, regulations, requirements, and codes, including but not limited to, the statues regulations, laws, rules and requirements specifically referenced in the documents annexed hereto.
XII. **M/WBE AND SDVOB**

FIT encourages minority and women business enterprise participation in this project by contractors, subcontractors and suppliers, and all bidders are expected to cooperate with that commitment. Also, bidders are encouraged to use Service-Disabled Veteran-Owned Businesses (SDVOB). A directory of New York State Certified Minority and Women’s Business Enterprises is available from: Empire State Development Corporation, Minority and Women’s Business Development Division at: [http://www.esd.ny.gov/mwbe.html](http://www.esd.ny.gov/mwbe.html) to assist potential bidders in locating sources of M/WBE subcontractors and reaching these goals. SDVOBs can be readily identified on the directory of certified businesses at: [https://online.ogs.ny.gov/SDVOB/search](https://online.ogs.ny.gov/SDVOB/search).

XIII. **MISCELLANEOUS**

A. FIT reserves the right to request clarifications from bidders for purposes of assuring a full understanding of responsiveness and further reserves the right to permit revisions from all bidders who might be, in FIT’s sole discretion determined to be viable bidders for contract award, prior to the award.

B. FIT reserves the right to reject separable portions of any offer, to negotiate terms and conditions consistent with the bid, and to make an award for any or all remaining portions.

C. FIT reserves the right to eliminate mandatory requirements unmet by all bidders.

D. Any additional vendor terms which are attached or referenced with a submission shall not be considered part of the bid or proposal, but shall be deemed included for informational purposes only.

E. Unless otherwise specifically stated in the Bid Terms and Conditions, all specifications and requirements constitute minimum requirements. All bids must meet or exceed stated specifications and requirements.

F. FIT reserves the right to make an award to the responsive and responsible bidder whose product or service meets the terms, conditions, and specifications of the Bid and whose bid is considered to best serve FIT’s interest. In determining the responsiveness and responsibility of the bidder, FIT may consider the following factors, including but not limited to: the ability, capacity, and skill of the bidder to perform as required; whether the bidder can perform promptly, or within the time specified without delay or interference; the character, integrity, reputation, judgment, experience and efficiency of the bidder; the quality of past performance by the bidder; the previous and existing compliance by the bidder with relevant laws and regulations; the sufficiency of the bidder’s financial resources; the availability, quality, and adaptability of the bidder’s equipment, supplies and/or services to the required use; and the ability of the bidder to provide future maintenance, service, and parts.
SECTION III:
CONTRACT TERMS AND CONDITIONS
SECTION III. CONTRACT TERMS AND CONDITIONS

I. COMPLIANCE REQUIREMENTS

All work hereunder, including but not limited to material and installations, shall be in compliance with the Contract Documents including both specifications and drawings, as well as all applicable state and local building codes (such as the New York City Building Code) and the rules, regulations of governmental agencies and utility companies having jurisdiction over the work.

The following additional notes shall be considered as part of the officially filed drawings:

N/A

THE WORK:

Unless modified by the Contract Documents, the work of each section of the specifications shall include all labor, materials, testing, tools and equipment necessary and reasonably incidental to replace the East Courtyard roof and associated components.

WORKMANSHIP:

All work shall be performed by persons skilled in the work. Work shall be installed true to dimension, plumb and level with neat, accurate cutting and fitting of all materials in accordance with recognized standards of workmanship.

ON-SITE VERIFICATION:

The Contractor shall verify all dimensions and site conditions prior to commencing the work. Dimensions may not be scaled from drawings. Should there be a discrepancy, Contractor is to notify FIT Facilities Director and Architect immediately for clarification.

COORDINATION OF THE WORK:

The Contractor shall be responsible for the coordination of the work and the means and methods of construction and provide FIT with the resume of Contractor’s project manager (“Project Manager”). FIT’s Facilities Director shall approve the Project Manager and reserves the right to request a replacement Project Manager upon reasonable notice.

This work will require coordination with a separate job for “East Courtyard Air Handler Units Replacement, C1558” and the work will happen concurrently with full cooperation by both contractors.

WORK HOURS:

Regular work hours are from 7:00 am to 6:00 pm unless otherwise specified in the Contract
Documents. Contractor will have reasonable access to the site in order to complete the work in the given time frame. Contractor shall comply with FIT’s additional work rules related to such extended access. All labor costs required to meet this deadline are the sole responsibility of the Contractor and shall be included in the contract price. FIT reserves the right to put the work on hold on three (3) occasions during the course of construction for any length of time and for any reason.

**PERFORMANCE AND PAYMENT BONDS**

In addition to the insurance and bond requirements specified in the General Conditions, Performance and Payment Bonds shall be required for the Work of this Contract.

A. Concurrently with the delivery of the executed Contract, Contractor shall furnish to FIT and maintain, at its own cost and expense a Performance Bond in an amount at least equal to one hundred percent (100%) of the contract price as security for faithful performance of the Contract and also a Labor and Material Payment Bond in an amount at least equal to one hundred percent (100%) of the Contract price for the payment of all persons performing labor on the project under the contract or furnishing materials in connection with the Contract. The surety on such bonds shall be a surety company rated B+ or better by A.M. Best Company, shall be licensed to do business in the State of New York, and shall hold a certificate of authority as an acceptable surety on federal bonds or otherwise satisfactory to FIT.

B. Attorneys-in-fact who sign said bonds on behalf of a surety must affix to each bond a certified and effectively dated copy of their power of appointment.

**CONFLICTS, ERRORS AND OMISSIONS:**

1. The Contract Documents and typical details apply throughout the work unless noted otherwise.

2. In the event that certain features of the work are not fully shown on the drawings, Contractor must obtain clarification from the FIT Facilities Director and Architect through the use of an AIA Standard RFI form (copies can be obtained from the Architect) before proceeding with the work.

3. In the event of conflicts with the drawings and/or specifications, the Contractor must promptly notify the FIT Facilities Director and Architect. The Architect will determine which shall govern.

**MANUFACTURER’S PRODUCTS AND FABRICATIONS:**

1. All manufacturers and fabricators printed warnings for handling of their products must be strictly observed.

2. All products and materials must be provided and installed in strict accordance with the requirements and recommendations of the manufacturer. In the event of conflict between the drawings or the specifications and the manufacturer’s requirements and
recommendations, Contractor must notify FIT Facilities Director and Architect to obtain clarification before proceeding with the work.

3. Contractor must verify all materials and manufactured items to be in conformance with applicable codes and regulations.

DELIVERY AND STORAGE OF MATERIALS:

1. All materials shall be new and delivered to the site in original, unbroken containers.

2. All materials shall be inspected by the Contractor at time of delivery and Contractor shall reject material evidencing damage or other defects.

3. Contractor shall provide secure and environmentally compatible storage facilities for all materials in accordance with the recommendations of the manufacturer.

PROJECT SCHEDULE:

1. Contractor shall attend a Project Initiation Conference, prior to the commencement of work at the site. Attending this Conference on behalf of the Contractor shall be an officer of the Contractor and the Project Manager assigned to the project. Contractor shall submit at this Conference a detailed timeline indicating the important milestones of the project and establishing an estimated date of substantial completion in accordance with Contract Documents. He/she shall also present all submittals required by the Contract Documents, such as Insurance Certificates, product tear sheets (not at the initial conference), copy of the General Liability insurance policy (amended to reflect required additional insureds), etc. Project access, storage locations, required crew size and other relevant issues shall also be addressed at this Conference.

2. Time is of the essence. Contractor shall be required to commence work of the East Courtyard Roof Replacement project within five (5) working days of receipt of a Notice to Proceed from FIT. The shop drawings process and ordering need to proceed first. Work on site considered in FIT’s sole opinion to be non-disruptive may commence no earlier than Monday, May 6th, 2024. The Work shall require a construction shed and the construction shed shall be ready no later than Friday, May 17th. All other work on site may begin no sooner than Tuesday, May 28th, 2024. Contractor must be demobilized and leave the job site on Friday, August 16th, 2024. Only close-out and administrative tasks may continue beyond the closing date. Unless otherwise specified, the work is to be performed solely between the hours of 7:00 A.M. to 6:00 P.M. Monday through Friday, legal and union holidays excluded. All labor costs encountered to meet this deadline are the sole responsibility of the Contractor and shall be included in the Bid Price. FIT reserves the right, at no financial liability associated with the same, to put the Project work on hold on as many as three (3) separate occasions during the course of the Project for any length of time and for any reason.

3. On Monday of each week during the construction period, the Contractor shall email to FIT’s Facility Director (or such other individual as FIT may designate at its sole
discretion) a written report outlining the work completed during the preceding week and the work planned for the upcoming week. Included will be any unforeseen or anticipated problems regarding implementation of the work, in addition to Change Order requests, submission data, etc. Daily reports **MUST** be submitted to the CM and or the Facilities Department Designee.

4. Job meetings will be held at the site on dates to be determined by Architect and FIT. These meetings shall be attended by an officer of the Contractor, the Project Manager, FIT's representative, and the Architect. The purpose of these meetings will be to review the status of the project, discuss any potential changes to the project scope, and resolve any problems relating to successful completion of the work.

5. Owner’s meetings will be held weekly via zoom and in person when needed. The dates to be determined by the Architect and FIT. These meetings shall be attended by the Contractors Project Manager, FIT, and the Architect. The purpose of these meetings is to keep the Owners informed of the process and to discuss any issues relating to the successful completion of the work.

6. **Project Schedule and Milestone Completion Dates:**
   - Friday, February 2nd, 2024: Pre-Bid Site Inspection
   - Tuesday, February 13th, 2024: GC Bid Questions due
   - Friday, February 23rd, 2024: GC Bid Designation due
   - Friday, March 8th, 2024: FIT to award contract to GC
   - Monday, May 6th, 2024: GC may begin non-disruptive work on site
   - Friday, May 17th, 2024: GC completes installation & DOB approval of sidewalk shed
   - Tuesday, May 28th, 2024: GC may begin demolition and all other disruptive work on site
   - Friday, August 9th, 2024: Substantial Completion
   - Friday, August 16th, 2024: Final Completion & demobilization

**PAYMENT:**

In accordance with, and in addition to, the payment requirements of the Contract Documents, the Contractor shall provide sufficient and appropriate documentation for all invoices to FIT including submittal of invoices for actual cost of materials, labor rates, and certified payrolls. Filing of such payrolls shall comply with the New York State Labor Law and is a condition precedent to payment. FIT reserves the right to request additional information and/or documentation at any time.

Contractor is required to submit Monthly Contractor’s Compliance Form (as attached in Section XII. Affirmative Action Form) with each Payment Requisition.

Contractor is required to submit a Certificate of Monthly Payment/Lien Waiver signed by each Sub-contractor with each Payment Requisition.

Contractor is required to submit Waste Management Form with each Payment Requisition.
LABOR HARMONY:

A. Contractor is advised that he/she must maintain labor harmony throughout the duration of the Contract. All labor disputes, slowdowns, strikes and/or sympathy actions will be the sole responsibility of the Contractor to resolve in order to maintain harmony.

B. All costs, delays and scheduling impacts associated with any labor dispute that arises from such action or inaction will be borne by the Contractor.

C. Contractor will also be responsible for all costs, damages and scheduling impacts which affect and disrupt any other workers on site as well as FIT employees.

D. It will be the Contractor’s responsibility to resolve all labor disputes immediately.

Contractor is further advised that FIT has a large union presence on the campus. All work performed by the Contractor must provide the required labor harmony to perform work without labor incident or dispute which can delay, obstruct or effect the work and project schedule, or interfere with FIT’s ability to operate.

II. GENERAL NOTES

In accordance with, and in addition to, the requirements of the Contract Documents:

1. All work listed on the construction notes and shown or implied on all drawings shall be supplied and installed by the Contractor unless otherwise noted on drawings and/or in specifications.

2. Contractor to determine coordination of trades.

3. Contractor shall verify all dimensions and conditions shown on drawings and shall notify FIT Facilities Director and Architect of any discrepancies, omissions, and/or conflicts before proceeding with the work.

4. Contractor must comply with the rules and regulations of agencies having jurisdiction and shall conform to all construction and safety codes, statutes and ordinances. All fees, taxes, permits and applications to be obtained through governmental agencies shall be the responsibility of the Contractor.

5. Contractor shall comply with the rules and regulations of the building as to hours of availability of loading docks and elevators for the purposes of delivery, waste removal and other needs related to the work. Coordination with FIT Facilities Department is required for the handling materials, movement in and out of building, equipment and debris to avoid conflict and interference with normal building operations.
6. All drawings and construction notes are complementary and what is called for by any will be binding as if called for by all.

7. Contractor shall maintain a current and complete set of construction documents on the construction site during all phases of construction.

8. Do not scale drawings; dimensions shown govern. Larger scale drawings shall govern over smaller scale.

9. Contractor shall maintain a current and complete set of shop drawings on the construction site.

10. Contractor shall maintain a current and complete RFI (Request for Information) log on the construction site.

11. Contractor shall submit for approval, prior to commencing work, a list of all sub-contractors to FIT’s Facilities Director, with the name, address and phone number of the principal contact of each sub-contractor. In addition, he will file with the owner the emergency numbers available for 24-hour contact.

12. All work shall be performed by skilled and qualified workmen in accordance with the best practices of the trades involved and in compliance with building regulations and/or governmental laws, statutes, or ordinances.

13. All materials shall be new, unused and of professional quality, unless otherwise noted, installed as per manufacturer’s recommendations and instructions.

14. For purposes of the Specifications and Drawings sections in the Contract, the use of the words “Supplied By” or “Provided” in connection with any item specified is intended to mean that such item shall be furnished, installed and connected where so required.

15. All approvals of submittals shall be for design intent only. Contractor shall be responsible for quantities, dimensions and compliance with Contract Documents and for information pertaining to fabrication processes or techniques of first-class construction and for coordination with other trades.

16. All work shall be erected and installed plumb, level, square, true and in proper alignment.

17. Contractor shall be responsible for cutting, patching and restoration required for this work.

18. If, during the course of construction, Contractor believes materials that might contain asbestos may be disturbed during performance of the work, Contractor shall immediately notify FIT of the area(s) of concern, and stop work if that area would be disturbed by the continuing work.

19. All correspondence to FIT shall be directed to the attention of the FIT Facilities Director with a copy of the same forwarded to the Architect.
20. Contractor shall at all times keep the premises free of accumulation of waste materials and rubbish; premises to be broom swept clean daily. At the completion of the work, Contractor shall leave the job site free of construction debris and materials, and “broom clean” including thorough cleaning of toilets, bathrooms, electrical closets, stairwells, and all areas of work or staging, etc.

21. Contractor shall provide all necessary protection against dirt and damage within the premises, as well as public areas, and shall be responsible for keeping these areas clean and free of materials at all times.

22. Contractor shall verify location of existing utilities and coordinate with location shown on drawings.

23. During construction, security and fire exit doors must remain unobstructed at all times.

24. Contractor shall take every precaution to properly protect all existing construction to remain. Contractor shall be responsible for all damaged areas to be returned to original condition.

25. Contractor shall schedule construction in such a manner so as not to disturb areas outside of the area under construction during normal operating hours. The Contractor shall coordinate with FIT Facilities Director minimum of 24 hours prior to any disruption of services to those areas not under construction even if such a disruption occurs during or after normal operating hours.

26. Contractor shall staff the project with a Project Manager with at least 5 years’ experience in this type of project scope, with similar complexity and schedule requirements.

27. The acceptance of shop drawings containing deviations not specifically brought to the attention of FIT, or containing errors or omissions of any sort, shall not relieve Contractor of the responsibility for executing the Work in accordance with the Contract Documents and Contract Terms and Condition.

III. DEMOLITION NOTES

In accordance with, and in addition to, the requirements of the Contract Documents. It shall be Contractor’s responsibility to perform the following:

1. Prior to commencement of selective removals and demolition work, inspect the areas in which the work will be performed.

2. Any asbestos contaminated material will be removed by FIT’s certified asbestos abatement contractor prior to the work of this contract.

3. Provide temporary barricades and other forms of protection required to protect all FIT personnel, inclusive of its faculty, staff and students as well as the general public from injury due to selective removals and demolition work.
4. Remove and dispose of exposed bolts, supports, brackets, cleats, grounds, and other items, that are no longer required for the purpose for which they were originally installed.

5. Where existing work is required to be removed and replaced but found to be defective in any way, it shall be reported to the FIT Facilities Director and Architect before it is disturbed.

6. All existing work damaged or lost as a result of performing the required new work, shall be patched, repaired or replaced with new, and finished to match the existing work, or as the individual case requires at the Contractor’s expense.

7. Perform cutting, drilling and removals in a manner which will prevent damage to construction which is to remain.

8. Promptly repair any and all damages to all property and finishes caused by the removals and demolition work; to FIT’s satisfaction and at no extra cost to FIT.

9. Cut, patch, paint and finish existing walls, ceiling and/or floor disturbed to match existing.

10. Perform patching around items penetrating existing construction in a manner that will maintain the water and fire resistive capability of existing construction. Should either of these be compromised, it is the responsibility of the Contractor to repair prior to completion.

11. Remove debris, rubbish and other materials resulting from the removals and demolitions from the building immediately; transport and legally dispose of materials off-site. Disposal method shall be in accordance with city, state and federal statues regulations, and ordinances.

12. Work of this section shall conform to all requirements of the New York City Building Code and all applicable regulations and guidelines of all governmental authorities having jurisdiction, including, but not limited to, Safety, Health and Anti-Pollution regulations.

13. Work is to conform to OSHA requirements.

IV. ADDITIONAL CONTRACTOR’S RESPONSIBILITIES

In accordance with, and in addition to, the requirements of the Contract Documents:

1. Contractor shall coordinate all work with FIT Facilities Department and Director.

2. Contractor to provide daily crew manpower log/count to FIT.

3. Contractor shall perform work in a neat workmanlike manner in accordance with accepted industry standards.

4. FIT Facilities Department shall notify Contractor before commencing work
which floors are accessible by Contractor.

5. Contractor shall mask all signs, window frames, door frames, etc. when painting around them.

6. **Employee Identification and Building Access:** All Managers and their crew must wear at all times company identification. All Managers and their crew must sign in and out, upon entering and leaving the facility, at the FIT front security desk.

7. After Bid opening, FIT will evaluate and review submissions and notify the lowest Bidder, who is deemed most responsive and responsible. Within five (5) business days of such written notification, such Bidder shall submit the following information. Failure to comply with these requirements in whole or part shall constitute grounds for rejection of the Bid. FIT reserves the right to determine whether a Bidder has substantially met these requirements and to ask for additional information. Documentation of the following:
   
   a. Health and safety training program and procedures for employees and on-site EHS Coordinator.

   b. Copies of current licenses and certifications applicable to the Work, including but not limited to licenses issued by the Fire Department of New York, Department of Buildings of the City of New York, must be provided to FIT Facilities.

8. Contractor shall complete the attached Outline for Preparing Work-Specific Environment, Health and Safety Plan (“EHS Plan”) which will be reviewed and approved by FIT’s EHS Compliance Director prior to commencement of work. Contractor shall include the costs of completing the EHS Plan in the Bid price. Proof of the 10 Hour OSHA Outreach Training Program for Construction certificate will be required.

9. Contractor shall provide as described in the FIT Safety EHS Plan, legible copies of SDS sheets and estimates of anticipated amounts of chemicals Contractor intends to store on site to the FIT’s Director of EHS Compliance for review and approval at least ten (10) days before Contractor allows on-site storage.

10. Contractor shall ensure that legible copies of all SDS are available at the location of chemical storage and available for review at all times. Contractor shall take all necessary precautions necessary to prevent vapors, fumes, or dust from leaving the work area. This includes but is not limited to the construction of negatively ventilated containments as controls.

11. Contractor shall provide as described in the FIT Safety EHS Plan a written statement of the types of project waste disposed, including the amounts and the name of the waste disposal facility for each type of waste disposed. Contractor shall provide the statement with each Payment Application.
Contractor shall provide a separate copy of the statement to FIT’s Director of EHS Compliance.

12. Contractor may not store Hazardous Waste on site at any time. Contractor may not generate or accumulate Hazardous Waste on site without the written approval of FIT’s Director of EHS Compliance. Contractor shall obtainFIT’s Director of EHS Compliance approval at least ten (10) days before the Contractor generates or accumulates Hazardous Waste on site beginning with demolition work.

13. Off-site shipments of Universal or Hazardous Waste. The Contractor may not allow the off-site removal of Universal or Hazardous Waste without the written approval of the FIT Director of EHS Compliance. Contractor will ensure that the FIT Director of EHS Compliance alone signs any shipping papers for the off-site removal of Universal or Hazardous Waste.

14. Contractor’s personnel must report daily to the FIT Security area in the Lobby of Building “C”, the Feldman Center before entering FIT’s site. All Contractor’s personnel must obtain temporary FIT identification that shall be displayed at all times while on the FIT site. While on FIT property, all Contractor’s personnel shall be subject to all FIT campus policies and procedures, including, but not limited to, prohibitions related to tobacco, drug, and alcohol use, and policies and procedures regarding appropriate and civil conduct. Contractor’s personnel shall not fraternize with FIT students and employees beyond what is necessary to complete their work or any assigned Projects. FIT policies may be found at https://www.fitnyc.edu/policies/. FIT reserves the right, in its sole determination, to eject from the campus, any Contractor personnel violating such policies, in addition to any other rights and remedies.

V. PERMITS

Contractor shall be responsible for obtaining all required Permits and paying all costs and fees associated therewith. New York City Department of Buildings (DOB) Work Permit will be required for this project. Contractor will also be required to perform the following functions as it relates to this project:

A. Contractor shall submit to FIT and Architect appropriate Workman’s Compensation and New York State Disability insurance certificates for use in securing the required Work Permits to be posted at the site. The Contractor shall provide FIT’s Facility Director with the appropriate insurance tracking numbers assigned to their firm by the NYC Department of Buildings.

B. The Contractor shall submit to FIT and Architect a copy of all Licenses as issued by the NYC Department of Buildings.
C. Permits for the work shall be posted by the Contractor in a conspicuous location at the site at all times. No work shall begin until the necessary DOB work permits have been obtained by the Contractor.

D. The Contractor shall be responsible for obtaining any other governmental permits and approvals required to undertake the work, and shall pay any and all fees associated therewith, including but not limited to fees to the MTA for setting up a crane, if applicable.

VI. PROJECT MANAGER

1. The Contractor shall provide the services of an experienced Project Manager, who shall be in continual responsible charge of the work and shall have a valid Certificate of Fitness by the New York City Department of Buildings.

2. The Project Manager shall be on site at all times, shall speak fluent English, shall maintain on the site a complete set of these specifications (including any addenda and/or change orders, as well as all project drawings and all applicable manufacturers' instruction sheets), and shall have full authorization to make all field changes as directed by FIT’s Facility Director and Architect.

3. The Project Manager shall be required to maintain a daily log at the site indicating the following:

   -the date
   -the number of workers at the site on said date
   -the specific portions and locations of the Work completed on said date

4. The Project Manager (or another authorized representative of the Contractor) shall telephone FIT’s Facility Director at least once daily throughout the construction period, to report on the day's activities and the work planned for the following day.

5. The name of the Project Manager shall be submitted to FIT’s Facility Director prior to initiation of the project. This Manager shall remain in charge of the project for its entire length, at FIT’s discretion, unless said Manager no longer remains in the employ of the Contractor. In such case, a capable and experienced replacement shall be immediately assigned subject to approval by FIT’s Facilities Director.

6. No telephone service is available at the site for use by the Contractor; therefore, the Contractor shall equip the Project Manager with a cellular telephone at the site for the duration of the Project. The Contractor shall
provide FIT and Architect with the appropriate contact numbers at the
initiation of the Project.

VII. SUBMISSIONS AND SUBSTITUTIONS

1. All submissions called for in the Contract Documents shall be submitted at
least twenty (20) working days prior to proposed initiation of any related work.

2. FIT and FIT’s Architect and Engineer will review and accept or take other
appropriate action regarding Contractor 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. FIT’s review of all shop drawings submitted by the
Contractor shall be for concept only and does not remove the Contractor's
responsibility for insuring that all specific details of the installation shall be
performed in such a way so as to achieve satisfactory results. Acceptance by
FIT and the Architect of Contractor submittals does not relieve the Contractor
from responsibility for errors which may exist in the submitted data.

3. Where the phrase "or approved equal" or "equal as approved by FIT" occurs in
the Contract Documents, the Contractor may not assume that the materials,
equipment, or methods will be approved as equal unless the item has been
specifically approved by FIT and the Architect.

4. Any proposed substitute products or procedures are to be submitted to FIT’s
assigned Architect/Engineer for prior approval with any proposed price
adjustments to the contract within 14 days of the signing of the agreement
between FIT and the Contractor, so that FIT and the Architect are permitted
adequate time for review.

VIII. PROGRESS PAYMENTS

1. All submissions called for in the Contract Documents shall be submitted at
least twenty (20) working days prior to proposed initiation of any related work.

2. Progress payments will be made to the Contractor based solely on actual work
completed. Furthermore, payment will not be made for the purchase of
materials, nor for their transfer onto the site, nor for any costs associated with
mobilization.

3. Payment requests shall be submitted to FIT’s Facilities Director on AIA
Documents G702 and G703.

4. Payments will be authorized based upon FIT's field visits and review of work.
All FIT’s decisions regarding progress payments shall be final.

5. The values quoted on the bid form shall constitute the Schedule of Values for
AIA Document G703. Additional breakdown of the bid form shall be provided
on the Schedule of Values and will be used for progress payments.

6. No progress payments will be processed without submission by the Contractor of properly executed Affidavit of Payment and Release of Liens (AIA Documents G706 and G706A or equivalent forms as may be requested by FIT), up-to-date weekly written reports and timeline in bar chart form, and all submittals, certificates, permits, etc. required pursuant to the terms of the contract.

7. A 10% retainage shall be deducted from all progress payments made by FIT.

8. Payment requests shall be submitted to FIT not more than once per month.

9. Contractor shall provide sufficient and appropriate documentation for all invoices to FIT including submittal of invoices for actual cost of materials, labor rates and certified payrolls. Filing of such payrolls shall comply with the Labor Law and is a condition precedent to payment. FIT reserves the right to request additional information at any time. Contractor required to submit Monthly Contractor’s Compliance Form with each Payment Requisition.

10. Contractor required to submit a Certificate of Monthly Payment signed by each Sub-contractor with each Payment Requisition.

11. Contractor shall be required to submit a detailed Trade Payment Breakdown.

IX. SITE VISITS BY ARCHITECT/ENGINEER

1. Failure by Architect/Engineer to detect and/or notify the Contractor of any aspect of the Contractor's actions or materials that are not in conformance with the Contract Documents shall not remove the Contractor's responsibility to adhere to the Contract Documents in all instances, including but not limited to the Contractor's responsibility to expeditiously correct and/or replace all defective work.

2. Architect/Engineer will be the final judge as to whether the work is satisfactorily performed, and shall have the authority to order that any work deemed unacceptable or not in conformance with the Contract Documents be redone by the Contractor at no cost to FIT.

3. Architect/Engineer shall have no responsibility for the presence, discovery, identification, handling, removal or disposal of, or exposure of persons to hazardous materials in any form at the Project site.

X. CHANGE ORDERS

1. FIT may order changes in the work of any quantity and without invalidating
the Agreement so long as the Contract Sum and/or Contract Time of Completion are adjusted accordingly. All such changes in the work shall be authorized by written Change Order. All Change Orders shall be reviewed by Architect and authorized by a representative of FIT.

2. No work shall be performed by the Contractor unless it is specifically included in the Contract Scope of Work or authorized in advance by a bulletin issued by the Architect which will serve as the backup paperwork for a change order. The contractor needs to submit a Change Order. All work to proceed prior to approval of change orders. Change Orders will be negotiated fairly in separate meetings. All written Change Orders are to be signed by all parties.

3. Any sums to be paid to Contractor as a result of any Change Order or any sums to be credited to FIT as a result of any Change Order shall be computed by one of the following methods:

   (1) As agreed upon between the parties to the contract in writing prior to commencement of the work required by the Change Order, or;

   (2) By Unit Prices detailed in the Contract Documents or subsequently agreed upon.

XI. GUARANTEES

1. All work on this project shall be guaranteed by the Contractor for a period of not less than five (5) years, or longer where covered by manufacturer warranty. Warranty to start on the day of the final signoff by FIT.

2. If within the guarantee period any of the work is found to be defective or not in conformance with the Contract Documents, the Contractor shall correct it promptly at his own expense after receipt of written notice from FIT.

XII. FINAL PAYMENT

1. Final payment (retainage) shall be released to the Contractor thirty (30) days after the project has been signed off by FIT and Architect/Engineer and the Contractor has satisfied all requirements of the Contract Documents.

2. In addition to any other requirements of the Contract Documents final payment shall not become due until the Contractor has delivered to FIT and Architect a fully executed 5-year guarantee for all work performed under this project, as well as a complete release of all liens arising out of this Contract, or receipts in full covering all labor, materials, equipment, applicable finance charges, and fines for which a lien could be filed. If such lien remains unsatisfied after payments are made, the Contractor shall refund to FIT all money that FIT may
be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

3. A Performance Bond and a Labor & Material Payment Bond, a copy of the “Contractor’s Affidavit of Payment of Debts and Claims (AIA Document G706)” and “Consent of Surety to Final Payment (AIA Document G707)” shall be submitted by the Contractor prior to the release of final payment.

4. One (1) set each of record drawings (measuring 24 inches by 36 inches) indicating the “As-Built” manner of installation of all work, shall be submitted to FIT prior to the release of final payment.

5. Once the project has reached substantial completion, FIT and Architect will prepare a “Certificate of Substantial Completion”. This certificate must be signed by all parties (Engineer, FIT and Contractor), to acknowledge the date the project has reached substantial completion, and confirm agreement on a final punch-list of work to be performed. The Contractor shall be responsible for completing all punch-list items prior to release of final payment.

XIII. SUPPLEMENTAL CONDITIONS

Project Schedule. Contractor shall complete all work as specified within the time period specified in the Contract Documents, inclusive of rain days, but excluding any shutdowns authorized by FIT.

XIV. PREVENTIVE MAINTENANCE SCHEDULE

Prior to final payment, the contractor shall provide a recommended maintenance schedule from the manufacturer for quarterly, semi-annual and yearly requirements, including part numbers where applicable, upon completion of the job.

BID ANALYSIS FORM Follows
ATTACHMENT C – BID ANALYSIS FORM

FASHION INSTITUTE OF TECHNOLOGY
EAST COURTYARD ROOF REPLACEMENT
INVITATION FOR BID NUMBER C1610
NYS PREVAILING WAGE SCHEDULE PRC # 2023014301

BID BREAKDOWN

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<th>Line</th>
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TOTAL BID PRICE (1-10) $__________________

Alternate Number 1 – Provide new ladder in lieu of refinishing and reinstalling existing ship’s ladder.
-See specification section 055000 for more information. $__________________

Alternate Number 2 – Provide new cast in place treads in lieu of precast treads.
- See specification section 034500 for more information. $__________________

Alternate Number 3 – Provide Electronic Leak Detection system at Roof D. Base bid shall include no associated work.
-See specification section 075900 for more information. $__________________

As stated in Section IV of the front end documents: Subcontracting shall be permitted not to exceed 35% of the work of the project. Please provide the ratio of the contractors and subcontractors work that will be used on this project.

Contractor _____ %, Subcontractor(s) _____ %

For Bidding Purposes: the following sections pricing should cover the following items:
**General Requirements:** permits & licenses; project meetings; administrative overhead for submissions and shop drawings; progress photos; temporary facilities & controls; storage & protection of materials; project closeout; and project record documents.

**General Conditions:** supervision of work; all testing; coordination drawings; safety programs; insurance and performance & payment bonds.

The undersigned, having carefully examined all Contract Documents, including Notice to Bidders, Bid Terms and Conditions, Contract Terms and Conditions, General Requirements, General Conditions, Labor & Material Payment Bond, Performance Bond, Form of Bid, Non-Collusive Bidding Certification, Substitution Form Request, Contract, Affirmative Action Form, Change Order, Form, Contractor’s Trade Payment Breakdown, Safety EHS Plan, Prevailing Wage Schedule, Specifications, and Drawings and having examined the existing conditions by on-site visit(s), hereby submits this Bid Analysis, covering all labor, materials, equipment, tools, machinery, licensing, insurance, taxes, and fees required to perform the specified work at the above-referenced site, in accordance with the Contract Documents. **No exclusions & no exceptions.**

**Company Name and Address of Bidder:**
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

Signature of Bidder _______________________________    Date_________________

Printed Name and Title of Representative: ____________________________________

Email Address: ___________________________________________________________

Telephone:_____________________________________________________________

EIN#:_________________________________________________________________

**IMPORTANT:**
This bid analysis form is the **only** pricing format acceptable. Bidders **must** submit pricing using this form. **FIT will not accept bid responses on any other form.**

**NOTE:**
FIT will not sign any bidder generated contract, agreement or scope of work. FIT Bid and Terms and Conditions apply. Bidder requirement for FIT to sign any document will be grounds for rejection. Bidder inclusion of any conditions, clarifications, exceptions or changes which are not in compliance with FIT Bid and Terms and Conditions will be grounds for rejection.
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GENERAL REQUIREMENTS
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01010 -- SUMMARY OF THE WORK

.01 - Work Under The Contract
The Work shall be as described in the Contract Documents.

.02 - Work by Others
Should any other contractor be engaged by the Owner to perform work on the Site or in areas adjoining or adjacent to the Site, the Contractor and such other contractor shall coordinate the work of the Contractor and such other contractor.

.03 - Items Not Included
The following items shown on the drawings are not included in the Work:

A. Items indicated "By Others".
B. Items indicated "N.I.C." (Not in Contract)
C. Existing construction not indicated or specified to be removed, replaced or altered.

.04 - Openings and Chases
A. The Contractor shall build openings, including but not limited to channels, chases and flues as required to complete the Work as set forth in the Contract and as directed by the Owner before any work is installed.

B. After the installation and completion of any work for which openings, including but not limited to, channels, chases and flues, have been provided for the Contractor, the Contractor shall build in, over, around and finish all such openings as required to complete the Work.

C. If a contractor fails to furnish drawings and information required in connection with such openings before the General Construction Contractor performs any Work affected thereby, said contractor who so fails to furnish such drawings and information shall bear the cost of all cutting and refinishing including that part of the General Construction Contractor’s Work affected.

D. The Contractor shall Furnish and Install all sleeves, inserts, hangers and supports required for the execution of the Work.

E. Specific instructions shall be obtained from the Owner or the Owner's Representative before cutting beams or other structural members, arches or lintels.

F. The Contractor shall not endanger the Work and shall not cut or alter the Work unless prior approval and instructions are received from the Owner or the Owner's Representative.
.05 - Surveys and Layout
   A. If, for any reason, stakes, batter boards or monuments are disturbed, it shall be the responsibility of the Contractor to reestablish them.
   B. The Owner or the Owner's Representative may order construction work suspended at any time when location of monuments, stakes, bench marks and other layout markings established by the Contractor are not adequate to permit checking the Work.
   C. The Contractor shall Provide and shall maintain axis lines on each floor and shall establish and shall maintain grade marks 4' 0" above the finished floor on each floor level.
   D. The Contractor shall Furnish such stakes and other required equipment, tools and materials, and all labor as may be required in laying out any part of the Work.

.06 - Scheduling
   A. The Contractor shall deliver to the Owner schedules and forms in accordance with the Contract.
   B. The Owner or the Owner's Representative may require the Contractor to modify schedules which the Contractor has submitted either before or after such schedules are approved so that:
      1. The Work shall not be delayed.
      2. Changes in the Work are reflected in the schedules of the Contractor.

.07 - Contractor Use of Premises
   While performing the Work, the Contractor shall take every precaution against injuries to persons and damage to property.

01080 -- PERMITS AND COMPLIANCE

.01 - Permits and Licenses
   The Contractor shall obtain, maintain and pay for all permits and licenses necessary for the execution of the Work and for the use of such Work when completed.
   Prior to final payment the Contractor shall deliver to the Owner’s Representative all permits and certificates of approval issued by any agency having jurisdiction.

.02 - Compliance
   The Contractor shall give all notices, pay all fees and comply with all laws, rules and regulations applicable to the Work.
.03 - Additional Compliance
The Contractor, Subcontractors, and the employees of the Contractor and Subcontractors, shall comply with all regulations governing conduct, access to the premises, operation of equipment and systems and conduct while in or near the premises and shall perform the Work in such a manner as not to unreasonably interrupt or interfere with the conduct of business of the Institution.

.04 - Royalties and Patents
It is the sole responsibility of the Contractor to determine what, if any, patents are applicable to the Project. The Contractor shall pay all royalties and/or license fees. The Contractor shall defend all suits or claims for infringement of any patent rights and save the Owner, Architect, Engineer, Environmental Consultant and Construction Manager harmless from loss, including attorney’s fees, on account thereof.

01200 -- PROJECT MEETINGS

.01 - Project meetings shall be held to accomplish the following:
A. Coordinate the Work.
B. Establish a sound working procedure and relationship between all contractors, the Owner and the Owner's Representative.
C. Review requisitions, proposals and change orders.
D. Review the progress of the Work, review quality of work in place and review approval required by the Work and review delivery of materials.
E. Expedite the Work to completion within the scheduled time limit.
F. Review progress payments.

.02 - Initial Job Meeting (Orientation Meeting)
The Owner or the Owner's Representative shall call an initial job meeting which the Contractor shall attend. This meeting shall be called prior to the start of construction.

.03 - Job Progress Meetings
A. Job progress meetings shall be scheduled by the Owner or the Owner's Representative during the course of construction. The Contractor or the Contractor's duly authorized representative and such Subcontractors as required by the Contractor or the Owner or the Owner's Representative shall be present at all job progress meetings. The Contractors and Subcontractors shall answer questions on progress, workmanship, approvals required, delivery of material and other subjects concerning the Work. The purpose of such meetings is to coordinate the efforts of all
concerned so that the Work proceeds without delay to completion as required by the Contract.

B. The Owner or the Owner's Representative may require any schedule to be modified so that changes in the Work, delays or acceleration of any segment of the Work shall be reflected in such schedule. The Contractor shall cooperate with the Owner or the Owner's Representative in providing data for such changes in or modifications of schedules.

01300 -- SUBMITTALS

.01 - Schedules & Records

A. Within the time set forth in the Contract, the Contractor is required to complete and submit to the Owner or the Owner's Representative the following forms:

1. Submit construction progress schedule to the Owner or the Owner's Representative no later than thirty (30) calendar days after receipt by the Contractor of notice to proceed.

2. Submit names and addresses of all Subcontractors to the Owner or the Owner's Representative within thirty (30) calendar days of approval of the construction progress schedule.

3. Submit to the Owner or the Owner's Representative the date on which the Contractor proposes to award each subcontract a minimum of ten (10) days prior to such proposed award.

4. Submit Shop Drawings and material sample schedule to the Owner or the Owner's Representative no later than thirty (30) days after approval of the construction progress schedule. Such schedule shall include the date of all Shop Drawings, samples and materials shall be submitted and the date approval is required.

5. Submit to the Owner or the Owner's Representative on a form approved by the Owner, a schedule of anticipated monthly requisition amounts. Such schedule shall be submitted from time to time as directed by the Owner, the first such submission being required to be made by the Contractor within ten (10) days of receipt by the Contractor of a written order to proceed issued by the Owner. The amounts employed in preparing such schedules in no way shall be binding upon the Owner.

B. Sample forms shall be provided by the Owner or the Owner's Representative for the above mentioned schedules and records.
01311 – PROJECT ANALYSIS

.01 - Project Control and Progress Meetings

A. The Contractor shall attend all scheduling meetings as directed by the Owner or the Owner's Representative.

B. In addition to the Owner or the Owner's Representative and the Contractor's Superintendent and Scheduling Coordinator, such meetings shall also be attended by representatives of such subcontractors as the Contractor, the Owner or the Owner's Representative may deem advisable. The agenda for such meetings shall include the progress and current status of the Work, proposed solutions for problem areas and a review of schedules for future Work in order to meet the Contractor's objectives and his obligations under the Contract. Consideration shall be given to establishing actual start dates, actual completion dates, planned starts and finishes, quantities installed, man hours worked, as well as other data relevant to the performance of the Contract.

C. At least one week before each meeting described in subsection .01A of this Division 01311, the Contractor shall furnish progress data in the form required by the Owner or the Owner's Representative as follows:

1. The status of all activities as of date determined by the Owner or the Owner's Representative.

2. A list of actual start and completion dates for all activities.

3. Projected durations of completion of those activities in progress.

4. Relevant data of submittals in progress including equipment releases and equipment in fabrication.

5. All other information which in the discretion of the Owner or its Representative, may be required to complete the Project Schedule Update.

.02 – Payment

The Contractor's Payment Breakdown and Monthly Requisition as called for by Section 17.01 of the General Conditions of the Contract shall be the basis by which the Contractor is to be paid.

.03 - Time of Completion

It is the sole responsibility of the Contractor to complete the Work within the time of completion required by the Contract.
A. The Contractor shall submit the Shop Drawings and samples required by the Architect and the Contractor shall adhere to all submittal and scheduling requirements for Shop Drawings and samples. After examination of such Shop Drawings and samples by the Architect and the return of such items by the Architect to the Contractor, the Contractor shall make corrections indicated and shall furnish to the Architect the required number of corrected copies of Shop Drawings or samples.

B. Shop Drawings shall be accompanied by a letter of transmittal to the Owner or the Owner's Representative requesting approval and date approval is desired.

C. Each Shop Drawings and letter of transmittal shall be identified with the following information:

1. Project title
2. Contract name
3. Date of the drawing, including dates of any revisions
4. Name of Contractor, name of Subcontractor, material supplier and manufacturer, as applicable
5. Name of person or firm preparing Shop Drawings
6. Contract drawing numbers and specifications, section division and paragraph numbers used as references in preparing Shop Drawings, and titles of items to which the Shop Drawing refers.

D. Shop Drawings shall show the design, dimensions, connections and other details necessary to insure that the Shop Drawings accurately interpret the Contract Documents and shall also show adjoining Work in such Detail as required to provide proper connections with said adjoining Work. Where adjoining connected Work requires Shop Drawings, such Shop Drawings shall be submitted to the Owner or the Owner's Representative for approval at the same time so that connections can be checked.

E. The Contractor shall verify all field measurements. Measurements available prior to submittal of Shop Drawings shall be shown and so noted on the Shop Drawings. Measurements not available prior to submission of Shop Drawings shall be noted on the Shop Drawings as not available and such measurements shall be obtained prior to fabrication.
F. The Contractor shall submit manufacturer's drawings and specifications when necessary to fully explain apparatus or equipment required by the Work. These manufacturer's drawings and specifications shall be treated as Shop Drawings. Manufacturer's catalog numbers alone are not acceptable as sufficient information for compliance with this requirement.

G. Samples shall be accompanied by a letter of transmittal to the Owner or the Owner's Representative requesting approval, and date approval is desired.

H. Each sample shall be labeled with the following information:

1. Project title
2. Contract name
3. Date of submission
4. Name and quality of the material
5. Name of Contractor, name of Subcontractor, material supplier and manufacturer, as applicable
6. Contract drawing numbers and specification section, division and paragraph numbers used as reference in preparing samples.

I. Samples shall be of sufficient size and number to show the quality, type, color, finish and texture of the material required to be furnished by the Contractor pursuant to the Contract.

.02 - Contractor Review
The Contractor shall review, verify and determine all field measurements, field construction criteria, materials, catalog numbers and similar data, shall coordinate each Shop Drawing and sample with the requirements of the Contract and shall determine whether or not such Shop Drawings are in conformity with the provisions of the Contract before submitting the Shop Drawings to the Architect for approval.

.03 - Contractor Responsibility
The Architect's approval of Shop Drawings and samples shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract. The Contractor shall be responsible for the accuracy of the Shop Drawings and samples and for the conformity of Shop Drawings and samples with the Contract unless the Contractor has notified the Architect of the deviation in writing at the time of submission and has received from the Architect written approval of the specified deviations. The Architect's approval shall not relieve the Contractor of responsibility for errors or omissions in the Shop Drawings or samples.
04 - Commencement of Work
No portion of the Work shall be commenced until required Shop Drawings or samples are approved by the Architect.

01380 -- PROGRESS PHOTOGRAPHS

01 - Contractor Submission
A. The Contractor shall furnish to the Owner, progress photographs of the Work as follows: three (3) 8" x 10" glossy prints of each of the following views:

1. Two (2) different views of the area in which the building or buildings are to be located, taken before excavation starts.
2. Two (2) different views for each building when footings are in place and forms completed.
3. Four (4) different views for each building when foundations are completed.
4. Four (4) different views for each building when exterior wall is fifty per cent (50%) completed.
5. Four (4) different views for each building when the structure is ready for roofing.
6. Four (4) different exterior views in color for each building at completion.
7. Six (6) interior views in color for each building as directed upon completion.

B. A title identifying the view shown by each photograph and date taken shall appear on the back of each print.

01500 -- TEMPORARY FACILITIES AND CONTROLS

01 - Requirements
The Contractor shall Provide the temporary facilities and controls as hereinafter specified and as required by law.

02 - Temporary Lighting and Electric Service
The Contractor shall Provide and maintain all temporary lighting and power required in connection with the Contractor's operations from the commencement of the Work until the completion of each structure or for such other time as
directed by the Owner or the Owner's Representative. When the use of such temporary lighting and power is no longer required, all temporary wiring and equipment shall be completely removed by the Contractor. The Contractor shall make the necessary application to the lighting company and pay for all charges, costs and expenses incidental to the installation and maintenance of temporary lighting and power as required in connection with the Contractor's operations, and the Contractor shall pay for all power used. The minimum temporary lighting to be provided is at the rate of one-quarter watt per square foot and is to be maintained in each room and changed as required when interior walls are being erected. The required temporary lighting must be maintained for twenty-four (24) hours a day and seven (7) days a week at all stair levels and in all corridors below ground; in all other spaces temporary lighting is to be maintained only during working hours. All temporary wiring and equipment shall be in conformity with the National Electric Code. Three-phase temporary power circuits shall be installed as required to operate construction equipment of the various trades and to install and test equipment such as pumps and elevators. The Contractor shall install and maintain temporary or permanent service for the permanently installed building equipment such as sump pumps, boilers, boiler controls, fans, pumps, so that such equipment may be operated when required and so ordered by the Owner or the Owner's Representative for drainage or for temporary heat.

.03 - Material Hoists

A. General

1. Material hoists shall be operated by diesel, gasoline or steam engines and shall be complete with all equipment necessary for operation. Such hoists shall run from grade to roof, shall be installed immediately following the structural framing, centering or form work, and centering or form work unless otherwise approved by the Owner or the Owner's Representative. Electrically operated hoists shall not be used except as otherwise allowed by the Contract.

2. Material hoists shall meet any and all requirements of law, rule or regulation.

3. Hoist cars shall be of required size and design for the hoisting of all normal size building materials.

B. The Contractor shall:

1. Furnish, install, maintain and operate at the Contractor's expense, all hoisting equipment required for the Work.

2. Furnish all labor required for the Work.
.04 - Temporary Use of Permanent Elevator as Equipment Material Hoist

A. The Contractor shall:

1. Use the temporary hoists until a building is completed, or until the Contractor may, with the Owner's permission, use the equipment of one (1) elevator in a building for temporary service after the permanent elevator equipment and the permanent electric service have been installed.

2. If the Contractor elects to use such permanent elevator equipment, the Contractor shall:

   a. Provide adequate protection for such equipment and shall operate such equipment within a capacity not to exceed that allowed by law, rule or regulation.

   b. Provide for the maintenance of the elevator equipment as approved by the Owner or the Owner's Representative.

   c. Leave such equipment in perfect condition.

B. The permanent elevator equipment shall be ready for use when required by the Work and shall permit any use approved by the Owner or the Owner's Representative.

.05 - Temporary Enclosures

The Contractor shall:

A. Provide, install and maintain any temporary weather resistant enclosures for all openings in exterior walls and roof that are not enclosed.

B. After building is enclosed, maintain proper temperatures required by the Contract.

.06 - Temporary Fence Enclosures

The Contractor shall Provide, Install and maintain any temporary fence enclosures required by the Contract.

.07 - Maintenance of Permanent Roadways

The Contractor shall immediately remove dirt and debris which may collect on permanent roadways due to the Work.
.08 – Traffic Control

A. Routes to and from the location of the Work shall be as indicated in the Contract or as directed by the Owner or the Owner’s Representative.

B. Parking areas for the use of those engaged in the Work shall be as indicated in the Contract or as directed by the Owner or the Owner’s Representative.

.09 - Fire Prevention Control

The Contractor Shall:

A. Provide private unlisted telephone service reserved for fire calls at a location or locations approved by the Owner or the Owner's Representative. Such service shall be in addition to any other telephone service. The Contractor shall pay all costs thereof until completion and acceptance of the Work or as otherwise directed by the Owner or the Owner's Representative.

B. Comply with the safety provisions of the National Fire Protection Association's "National Fire Codes" pertaining to the Work and, particularly, in connection with any cutting or welding performed as part of the Work.

.10 - Pollution Control

The Contractor shall:

A. Comply with all laws, rules and regulations governing pollution control, including but not limited to those of the Department of Environmental Conservation of the State of New York.

B. Take all necessary precautions including, but not limited to digging and maintaining settling basins and dams; diverting streams, and taking all other actions that may be necessary to prevent silt, and waste of any kind from being deposited, silting and reduction of quality of streams below the construction area and downstream properties as a result of the Work.

C. Refrain from the disposal of volatile fluid wastes into storm or sanitary sewer systems, approved sewage disposal systems or any waterway.

D. Refrain from burning trash or waste materials.
11 - Temporary Field Office

A. The Contractor may provide a temporary office structure, for the Contractor's use during the course of the Work.
   1. The Contractor must receive prior written approval from the Owner or the Owner's Representative for such temporary office structure in relation to location, type of structure, and included facilities.
   2. All toilet and sink facilities in any such office structure shall be connected to an approved sewage disposal system.
   3. The Contractor shall remove the temporary office structure from the Site and shall repair the Site and finish the area as directed by the Owner or the Owner's Representative.

B. The Contractor shall:
   1. Provide a temporary office structure completely separate from any other office structures at a location approved by the Owner or the Owner's Representative until the Work is completed and is accepted.
   2. Provide such office structure for the exclusive use of the Owner.
   3. Bear all costs in relation to the furnishing, construction and removal of such office structure.
   4. Repair and refinish the area as directed by the Owner or the Owner's Representative.
   5. Construct such office structure and furnish such office structure as required by the Contract.
   6. Maintain such office structure in a sanitary condition and in proper repair, properly heat the structure, furnish the fuel and furnish all utilities and pay all utility charges.
   7. Install a telephone for the sole use of the Owner or the Owner's Representative and pay all service and local toll charges incurred as a result of the use of such telephone service.

C. With the prior written approval of the Owner or the Owner's Representative any other Contractor may erect a substantial office structure at the Site for the use of such Contractor in relation to the Work.
   1. All toilet and sink facilities in any such office structure shall be connected to an approved sewage disposal system.
2. Such Contractor shall remove the temporary office structure from the Site and shall repair the Site and finish the area as directed by the Owner or the Owner's Representative.

D. When adequate space is available in a building, the Contractor may transfer such office to available space with the prior written permission of the Owner or the Owner's Representative.

E. Trailers providing comparable facilities may be accepted at the discretion of the Owner or the Owner's Representative.

.12 - Rubbish Removal

A. The Contractor shall:

1. Keep the Work free from rubbish at all times.
2. Clean all enclosed structures daily.
3. Remove rubbish from the Site at least once a week.

B. The Contractor shall conform with the following:

1. Burning of rubbish shall not be permitted.
2. All rubbish shall be lowered by way of chutes, taken down by hoists, or lowered in receptacles. Under no circumstances shall any rubbish be dropped or thrown from one (1) level to another inside or outside any building.

.13 - Discontinuance, Changes and Removal

The Contractor shall:

A. Discontinue all temporary services required by the Contract when so directed by the Owner or the Owner's Representative. The discontinuance of any such temporary service prior to the completion of the Work shall not render the Owner liable for any additional cost entailed thereby.

B. Remove and relocate such temporary facilities as directed by the Owner or the Owner's Representative without additional cost to the Owner, and shall restore the Site and the work to a condition satisfactory to the Owner.

.14 - Project Identification

A. No signs or advertisements shall be displayed on the site except as required by the Contract.
B. The Contractor shall Furnish, erect and maintain the Site, the exact location thereof to be designated by the Owner or the Owner's Representative, a construction sign, in the form provided by the Contract.

.15 - **Moisture and Condensation Control**  
The Contractor shall provide for ventilation of all structures until Physical Completion and acceptance of the Work and shall control such ventilation to avoid excessive rates of drying of construction materials, including but not limited to concrete and to plaster, and to prevent condensation on sensitive surfaces.

.16 - **Protective Services**  
The Contractor shall provide security services required by the Contract.

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**01600 -- MATERIAL AND EQUIPMENT**

.01 - **Storage and Protection**  
A. Materials stored on the Site shall be neatly piled and protected, and shall be stored in an orderly fashion in locations that shall not interfere with the progress of the Work or with the daily functioning of the Institution.

B. Should it become necessary during the course of the Work to move materials or equipment stored on the Site, the Contractor, at the direction of the Owner or the Owner's Representative, shall move such material or equipment.

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**01700 -- PROJECT CLOSE OUT**

.01 - **Final Cleanup**  
A. The Contractor shall leave the Work ready for use and occupancy without the need of further cleaning of any kind.

B. The Contractor shall remove all tools, appliances, projects signs, material and equipment from the premises as soon as possible upon completion of the Work.

C. The Work is to be turned over to the Owner in new condition, in proper repair and in perfect adjustment.

.02 - **Required Close Out Documentation**  
A. Prior to final payment the Owner shall receive the following documents as required by the Contract:
1. The Contractor's general guarantee.

2. Specific guarantees, material, equipment and other items of work.

3. All certificates obtained in connection with the Work.

4. All final photographs of the Work.

B. The Owner shall also receive from the Contractor prior to final payment:

1. A complete listing of all Subcontractors, business addresses and items supplied by each such Subcontractor.

2. A listing of manufacturer's of major materials, equipment and systems installed in the Work.

3. A copy of all test data taken in connection with the Work.

4. Three (3) copies of all operation and maintenance manuals.

5. All keys, tools, screens, spare construction material, finishing material and equipment required to be furnish to the Owner as part of the Work.

.03 - Orientation Instruction

Prior to final payment appropriate maintenance personnel of the Owner shall be oriented and instructed by the Contractor in the operation of all systems and equipment as required by the Contract.

.04 - Project Close Out Inspections

A. When the Work has reached such a point of completion that the building or buildings, equipment or apparatus or any part thereof required by the Owner for occupancy or use can be so occupied and used for the purpose intended, the Owner or the Owner's Representative shall make a detailed inspection of the Work to insure that all requirements of the Contract have been met and that the Work is complete and is acceptable.

B. A copy of the report of the inspection shall be furnished to the Contractor as the inspection progresses so that the Contractor may proceed without delay with any part of the Work found to be incomplete or defective.

C. When the items appearing on the report of inspection have been completed or corrected, the Contractor shall so advise the Owner and the Owner's Representative. After receipt of the notification, the Owner or the Owner's Representative shall inform the Contractor of the date and time of final inspection. A copy of the report of the final inspection containing all
remaining contract exceptions, omissions and incompletions shall be furnished to the Contractor.

D. After receipt of notification of completion and all remaining contract exceptions, omissions and incompletions from the Contractor, the Owner and the Owner's Representative shall make an inspection to verify completion of the exception items appearing on the report of final inspection.

01720 -- PROJECT RECORD DOCUMENTS

.01 - Project Record Drawings

A. The purpose of the project drawings is to record the actual location of the Work in place including but not limited to underground lines, concealed piping within buildings, concealed valves and control equipment, and to record changes in the Work.

B. In addition to the sets of contract drawings that are required by the Contractor on the Site to perform the Work, the Contractor shall maintain, at the Site, one (1) copy of all drawings, specifications and addenda that are part of the Contract as awarded. Each of these documents should be clearly marked "Project Record Copy", maintained in a clean and neat condition available at all times for inspection by the Owner or the Owner's Representative, and shall not be used for any other purpose during the progress of the Work.

C. Project Record Requirements

1. The Contractor shall mark-up the "Project Record Copy" to show:

   (a) Approved changes in the Work.

   (b) Location of underground Work and concealed Work.

   (c) Details not shown in the original Contract Documents.

   (d) Any relocation of Work.

   (e) All changed in dimensions.

   (f) All access doors.

   (g) Location of all plumbing, heating, ventilating, air conditioning or electrical assemblies.

2. Such information shall include, but shall not be limited to:
(a) Footing depth in relation to finished grade elevations.
(b) Any change in floor elevations.
(c) Any structural changes.
(d) Any substitutions.
(e) Elevations and locations of all underground utilities, services, or structures referenced to permanent above-ground structures or monuments.
(f) Designation of all utilities as to the size and use of such utilities.
(g) All invert elevations of manholes.
(h) The location of all utilities, services and appurtenances concealed in building structures that have been installed different from that required by the Contract.
(i) Any approved change order.

D. The Contractor shall keep the Project Record Documents up-to-date from day to day as the Work progresses. Appropriate documents are to be updated promptly and accurately; no Work is to be permanently concealed until all required information has been recorded.

E. The project record drawings are to be submitted by the Contractor to the Owner or the Owner's Representative when all the Work is completed and is approved by the Owner and the Owner's Representative before the Contractor may request final payment.

01740 -- WARRANTIES, GUARANTEES, AND BONDS
See the Contract Documents for details.
SECTION V.
GENERAL CONDITIONS
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General Conditions

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ARTICLE 1 -- DEFINITIONS

Section 1.01 - The following terms as used in the Contract Documents shall be defined as follows:

Beneficial Occupancy - The use, occupancy or operation by the Owner of the Work, or any part thereof, as evidenced by a notification of Beneficial Occupancy executed by the Owner.

Construction Completion - Acceptance by the Owner of the Work as evidenced by a Notification of Construction Completion executed by the Architect.

Construction Manager - A person, persons, firm, partnership or corporation, regularly engaged in the management of construction projects, and so designated by the Owner.

Consultant - A person, persons, firm, partnership or corporation providing Architectural, Engineering or other professional services, and so designated by the Owner.

Contract - The agreement between the Owner and the Contractor consisting of the Contract Documents including all amendments and supplements thereto.

Contract Documents - The Contract, Notice to Bidders, Bid Checklist, Bid Terms and Conditions, Contractor Reference Sheet, Contract Terms and Conditions, Bid Analysis Form, Affirmative Action Form, Change Order Form, Contractors Trade Payment Breakdown, Safety EHS Plan, Prevailing Wage Schedule, Information for Bidders, Form of Bid, General Conditions, General Requirements, Bonds, Drawings, Specifications, Addenda, Change Orders and any supplementary data together with all provisions of law deemed to be inserted in the Contract or incorporated by reference.

Contractor - A person, persons, firm, partnership or corporation with whom the Contract is entered into by the Owner to perform the Work.

Extra Work - Any work in addition to the Work initially required to be performed by the Contractor pursuant to the Contract.

Furnish - To deliver to the site ready for installation.

Install - To unload at the delivery point at the Site and perform every operation necessary to establish secure mounting and correct operation at the proper location.

Owner – The Fashion Institute of Technology and/or its auxiliary corporations, as applicable.

Owner's Representative - A person, persons, firm, partnership or corporation so designated by the Owner.

Project - Work at the Site(s) carried out pursuant to one or more sets of Contract Documents.
**Provide** - To Furnish and Install complete in place and ready for operation and use.

**Shop Drawings** - Diagrams, fabrication drawings, illustration, schedules, test data, performance charts, cuts, brochures and other data which are submitted by the Contractor to the Architect and illustrate any portion of the Work. These drawings and data are reviewed and acted upon by the architect.

**Site** - The area within the Contract limit, as indicated by the Contract.

**Subcontract** - An agreement between the Contractor and Subcontractor for work on the Site.

**Subcontractor** - A person, persons, firm, partnership or corporation under contract with the Contractor, or under contract with any subcontractor, to provide labor and material at the Site.

**Substantial Completion** - Stage of construction at which the Architect determines there is a minimal amount of the Work to be completed, or Work to be corrected.

**Work** - The performance of all obligations imposed upon the Contractor by the Contract.

**ARTICLE 2 -- CONTRACT DOCUMENTS**

**Section 2.01 - Captions**

The table of contents, titles, captions, headings, running headlines and marginal notes contained herein and in said documents are solely to facilitate reference to various provisions of the Contract Documents and in no way affect the interpretation of the provisions to which they refer.

**Section 2.02 - Conflicting Conditions**

Should any provision in any of the Contract Documents be in conflict or inconsistent with any of the General Conditions or Supplements thereto, the General Conditions or Supplements thereto shall govern.

**Section 2.03 - Notice and Service Thereof**

Any notice to the Contractor from the Owner relative to any part of the Contract shall be in writing and service considered complete when said notice is mailed to the Contractor at the last address given by the Contractor, or when delivered in person to said Contractor or the Contractor's authorized representative.
Section 2.04 - Nomenclature

Materials, equipment or other Work described in words which have a generally accepted technical or trade meaning shall be interpreted as having said meaning in connection with the Contract.

Section 2.05 - Invalid Provisions

If any term or provision of the Contract Documents or the application thereof to any person, firm or corporation or circumstance shall, to any extent, be determined to be invalid or unenforceable, the remainder of the Contract Documents, or the application of such terms or provisions to persons, firms or corporations or circumstances other than those to which it is held invalid or unenforceable, shall not be affected thereby and each term or provision of the Contract Documents shall be valid and be enforced to the fullest extent permitted by law.

ARTICLE 3 -- INTERPRETATION OF CONTRACT DOCUMENTS

Section 3.01 – Owner/Architect

A. The Owner’s representative/Architect shall give all orders and directions contemplated under the Contract relative to the execution of the Work. The Architect shall determine the amount, quality, acceptability of the Work and shall decide all questions which may arise in relation to said Work. The Owner's estimates and decisions shall be final except as otherwise expressly provided. In the event that any question arises between the Owner and Contractor concerning the Contract, the decision of the Owner shall be a condition precedent to the right of the Contractor to receive any money or payment under the Contract.

B. Any differences or conflicts concerning performance which may arise between the Contractor and other contractors performing Work for the Owner shall be adjusted and determined by the Owner’s representative.

C. The Owner may act through a representative designated by the Owner.

Section 3.02 - Meaning and Intent of Contract Documents

The meaning and intent of all Contract Documents shall be as interpreted by the Architect.
Section 3.03 - Order of Preference

A. Figured dimensions shall take precedence over scaled dimensions. Larger scale drawings shall take precedence over smaller scale drawings. Latest addenda shall take precedence over previous addenda and earlier dated drawings and specifications.

B. Should a conflict occur in or between or among any parts of the Contract Documents that are entitled to equal preference, the better quality or greater quantity of material, of the more specific compared to the general, shall govern, unless the Architect/Owner’s representative directs otherwise.

C. Drawings and specifications are complementary. Anything shown on the drawings and not mentioned in the specifications, or mentioned in the specifications and not shown on the drawings, shall have the same effect as if shown or mentioned in both.

ARTICLE 4 -- MATERIALS AND LABOR

Section 4.01 - Contractor's Obligations

A. The Contractor shall, in a good workmanlike manner, perform all the Work required by the Contract Documents within the time specified in the Contract.

B. The Contractor shall Furnish, erect, maintain, and remove such construction plant and such temporary Work as may be required for the performance of its work. The Contractor shall be responsible for the safety, efficiency and adequacy of the Contractor's plant, appliances and methods, and for damage which may result from failure or improper construction, maintenance or operation of said plant, appliances and methods. The Contractor shall comply with all terms of the Contract, and shall, carry on and complete the entire Work to the satisfaction of the Owner.

C. Any labor, materials or means whose employment or utilization during the course of this Contract may tend to or in any way cause or result in strike, work stoppages, delays, suspension of Work or similar troubles by workmen employed by the Contractor, its subcontractors or material suppliers, or by any of the trades working in or about the buildings and premises where Work is being performed under this Contract, or by other contractors, their subcontractors or material suppliers pursuant to other contracts shall not be allowed. Any violation by the Contractor of this requirement may in the sole judgment of the Owner be considered as proper and sufficient cause for declaring the Contractor to be in default, and for the Owner to take action against the Contractor as set forth in the General Conditions Article entitled "Termination" or such other action as the Owner may deem proper.
Section 4.02 - Contractor’s Title to Materials

A. No materials or supplies for the Work shall be purchased by the Contractor or by any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by any other party. The Contractor warrants that the Contractor has full, good and clear title to all materials and supplies used by the Contractor in the Work, or resold to the Owner pursuant to the Contract free from all liens, claims or encumbrances.

B. All materials, equipment and articles which become the property of the Owner shall be new unless specifically stated otherwise.

Section 4.03 - "Or Equal" Clause

A. Whenever a material, article or piece of equipment is identified on the plans or in the specifications by reference to manufacturers’ or vendors' names, trade names, catalogue number or make, said identification is intended to establish a standard. Any material, article or equipment of other manufacturers and vendors which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Architect/Engineer, the material, article or equipment so proposed is of equal quality, substance and function and the Contractor shall not Provide, Furnish or Install any said proposed material, article or equipment without the prior written approval of the Architect/Engineer. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

B. Where the Architect/Engineer, pursuant to the provisions of this Section, approves a product proposed by the Contractor and said proposed product requires a revision of the Work covered by this Contract, or the Work covered by other contracts, all changes to the Work of all contracts, revision or redesign, and all new drawings and details required therefore shall be provided by the Contractor at the cost of the Contractor and shall be subject to the approval of the Consultant.

C. No substitution will be permitted which may result in a delay to the Project.

Section 4.04 - Quality, Quantity and Labeling

A. The Contractor shall Furnish materials and equipment of the quality and quantity specified in the Contract.

B. When materials are specified to conform to any standard, the materials delivered to the Site shall bear manufacturer's labels stating that the materials meet said standards.
C. The above requirements shall not restrict or affect the Owner’s right to test materials as provided in the Contract.

D. The Contractor shall develop and implement quality control plans to assure itself and the Owner that all Work performed by the Contractor and its Subcontractors complies fully with all Contract requirements, and shall submit the plans to the Owner as required by the Contract. See Submittals Section of the General Requirements. The Contractor's quality control plans shall be independent of any testing or inspection performed by or on behalf of the Owner.

ARTICLE 5 -- CONTRACTOR

Section 5.01 - Supervision by Contractor

A. The Contractor shall provide full-time competent supervision for the duration of the Contract; during the course of on-site work the Contractor shall provide a full-time on-site superintendent who shall have full authority to act for the Contractor at all times. The Superintendent shall be able to read, write and speak English fluently, as well as communicate with the workers.

B. If at any time the supervisory staff is not satisfactory to the Owner, the Contractor shall, if directed by the Owner, immediately replace such supervisory staff with other staff satisfactory to the Owner.

C. The Contractor shall remove from the Work any employee of the Contractor or of any Subcontractor when so directed by the Owner.

Section 5.02 - Representations of Contractor

The Contractor represents and warrants:

A. That it is financially solvent and is experienced in and competent to perform the Work, and has the staff, equipment, subcontractors and suppliers available to complete the Work within the time specified for the Contract price.

B. That it is familiar with all Federal, State or other laws, ordinances, orders, rules and regulations that may in any way affect the Work.

C. That any temporary and permanent Work required by the Contract can be satisfactorily constructed, and that said construction will not injure any person or damage any property.

D. That it has carefully examined the Contract and the Site of the Work and that, from the Contractor's own investigations and through the bid process and requirements is satisfied as to the nature and materials likely to be encountered, the character of equipment and other facilities needed
for the performance of the Work, the general and local conditions and all other materials or items which may affect the Work.

E. That it is satisfied that the Work can be performed and completed as required in the Contract, and warrants that it has not been influenced by any oral statement or promise of the Owner or the Consultant.

SECTION 5.03 – COPIES OF CONTRACT DOCUMENTS FOR CONTRACTORS

A. The Owner shall furnish to the Contractor, without charge, up to five (5) copies of Contract Documents.

B. Any sets in excess of the number mentioned above may be furnished to the Contractor at the cost of reproduction and mailing or delivery.

SECTION 5.04 - MEETINGS

The Contractor shall attend all meetings as directed by the Owner or the Owner's Representative.

SECTION 5.05 – RELATED WORK

To ascertain the relationship of its work to all Work required by the Contract Documents, the Contractor shall examine the Contract Documents for Work of its Contract and any related work of other contracts.

SECTION 5.06 – ERRORS OR DISCREPANCIES

The Contractor shall examine the Contract thoroughly before commencing the Work and report in writing any errors or discrepancies to the Owner or the Owner's Representative within five (5) days of discovery.

ARTICLE 6 -- SITE CONDITIONS

SECTION 6.01 – SUBSURFACE OR SITE CONDITIONS FOUND DIFFERENT

A. The Contractor acknowledges that the Contract amount set forth in its bid includes such provisions which the Contractor deems proper for all Site
conditions the Contractor could reasonably anticipate encountering as indicated in the Contract or from the Contractor's inspection and examination of the Site prior to submission of bids.

SECTION 6.02 – VERIFYING DIMENSIONS AND CONDITIONS

A. The Contractor shall take all measurements and verify all dimensions and conditions at the Site before proceeding with the Work. If said dimensions or conditions are found to be in conflict with the Contract, the Contractor immediately shall refer said conflict to the Architect in writing. The Contractor shall comply with any revised Contract Documents.

B. During the progress of Work, the Contractor shall verify all field measurements prior to fabrication of building components or equipment and proceed with the fabrication to meet field conditions.

C. The Contractor shall consult all Contract Documents to determine exact location of all Work and verify spatial relationships of all Work. Any question concerning said location or spatial relationships may be submitted in a manner approved by the Architect.

D. Special locations for equipment, pipelines, ductwork and other such items of Work, where not dimensioned on plans, shall be determined in consultation with other affected contractors.

E. The Contractor shall be responsible for the proper fitting of the Work in place.

SECTION 6.03 - SURVEYS

Unless otherwise expressly provided in the Contract, the Owner shall furnish the Contractor all surveys of the property necessary for the Work, but the Contractor shall lay out the Work.
ARTICLE 7 -- INSPECTION AND ACCEPTANCE

SECTION 7.01 – ACCESS TO THE WORK

The Owner, the Owner's Representative, and the architect shall at all times have access to the Work and the Contractor shall provide proper facilities for said access.

SECTION 7.02 – NOTICE FOR TESTING

If the Contract Documents, the Owner's instructions, laws, rules, ordinances or regulations require that any Work be inspected or tested, the Contractor shall give the Architect and/or Owner’s representative a minimum of three (3) work days written notice of readiness of the Work for inspection or testing and the date fixed for said inspections or testing.

SECTION 7.03 – REEXAMINATION OF WORK

Reexamination of any part of the Work may be ordered by the Owner, and if so ordered, the Work must be uncovered by the Contractor. If said Work is found to be in accordance with the Contract, the Owner shall pay the cost of reexamination. If said Work is not found to be in accordance with the Contract, the Contractor shall pay the cost of reexamination and replacement.

SECTION 7.04 – INSPECTION OF WORK

All Work, all materials whether or not incorporated in the Work, all processes of manufacture and all methods of construction shall be, at all times and places, subject to the inspection of the Owner or the Owner's Representative or the architect, and the Architect shall be the final judge of the quality and suitability of the Work, materials, processes of manufacture and methods of construction for the purposes for which said Work, materials, processes of manufacture and methods of construction are used. Any Work not approved by the Architect shall be reconstructed, made good, replaced or corrected immediately by the Contractor including all Work of other contractors destroyed or damaged by said removal or replacement. Rejected material shall be removed immediately from the Site. Acceptance of material and workmanship by the Owner shall not relieve the Contractor from the Contractor's obligation to replace all Work which is not in compliance with the Contract.
SECTION 7.05 – DEFECTIVE OR DAMAGED WORK

If, in the opinion of the Owner, it is undesirable to replace any defective or damaged materials or to reconstruct or correct any portion of the Work damaged or not performed in accordance with the Contract, the compensation to be paid to the Contractor shall be reduced by an amount which, in the judgment of the Owner, shall be deemed to be equitable.

SECTION 7.06 - TESTING

All materials and equipment used in the Work shall be subject to inspection and testing in accordance with accepted standards to establish conformance with specifications and suitability for uses intended, unless otherwise specified in the Contract. If any Work shall be covered or concealed without the approval or consent of the Architect, said Work shall, if required by the Architect, be uncovered for examination. Any inspection by the Architect or by a testing laboratory on behalf of the Owner does not relieve the Contractor of the responsibility to maintain quality control of materials, equipment and installation to conform to the requirements of the Contract. If any test results are below specified minimums, the Architect may order additional testing. The cost of said additional testing, any additional professional services required, and any other expenses incurred by the Owner as a result of said additional testing shall be at the Contractor’s expense. The Owner may deduct such costs from moneys due the Contractor.

SECTION 7.07 - ACCEPTANCE

No previous inspection shall relieve the Contractor of the obligation to perform the Work in accordance with the Contract. No payment, either partial or full, by the Owner to the Contractor shall excuse any failure by the Contractor to comply fully with the Contract Documents. The Contractor shall remedy all defects and deficiencies, paying the cost of any damage to other Work resulting therefrom.

ARTICLE 8 -- CHANGES IN THE WORK

SECTION 8.01 - CHANGES

A. Without invalidating the Contract, the Owner/Architect may order Extra Work or make changes by altering, adding to, or deducting from the Work, the Contract consideration being adjusted accordingly. No claims for Extra Work shall be allowed unless such Extra Work is ordered in writing by the Owner/Architect. No changes in the Work shall be made unless such Work is ordered in writing by the Owner/Architect or Owner’s Representative. If the time for completion is affected by this change, the revised time for completion shall be included in the change order. The Owner may order the Contractor to perform the Extra Work and proceed under the Dispute Article.
B. The amount by which the Contract consideration is to be increased or decreased by any change order may be determined by the Owner by one or more of the following methods:

1. By applying the applicable unit price or prices contained in the Contract.

2. By estimating the fair and reasonable cost of the Extra Work:
   a. Labor, including all wages, required wage supplements and insurance required by law, paid to employees below the rank of superintendent directly employed at the Site. Wages are the prevailing rate of wages defined in the Contract Documents and supplemental updates.
   b. Premiums or taxes paid by the Contractor for worker's compensation insurance, unemployment insurance, FICA tax and other payroll taxes as required by law, net of actual and anticipated refunds and rebates.
   c. Materials
   d. Equipment, excluding hand tools, which in the judgment of the Owner, would have been or will be employed in the Work. It is the duty of the Contractor to utilize either rented or self-owned equipment that is of a nature and size appropriate for the Work to be performed. The Owner reserves the right to determine reasonable and appropriate equipment sizing, and at the Owner’s discretion, to adjust the costs allowed to reflect a smaller or less elaborate piece of equipment more suitable for performance of the Extra Work.

3. By determining the actual cost of the Extra Work in the same manner as in Article 8, Section 8.01, Subsection B. 2. except that the actual costs of the Contractor shall be used in lieu of estimated costs.

C. The Owner shall have the option of determining by which method the Contractor shall proceed with said Extra Work. Wages are the prevailing rate of wages defined in the Contract Documents and supplemental updates. The Contractor shall submit a signed and notarized Labor Rate Worksheet(s) to the Owner to be used to determine hourly rates for various classifications of workers. The Contractor agrees to provide documentation verifying costs and calculations at the Owner's request.
D. Regardless of the method used by the Owner in determining the value of a change order, the Contractor shall, within the time-frame given by the Owner, submit to the Owner or Owner's Representative a detailed breakdown of the Contractor's estimate of the value of the omitted or Extra Work.

E. Unless otherwise specifically provided for in a change order, the compensation specified therein for Extra Work includes full payment for the Extra Work covered thereby, and the Contractor waives all rights to any other compensation for said Extra Work, damage or expense.

F. The Contractor shall furnish satisfactory bills, payrolls and vouchers covering all items of cost and when requested by the Owner shall give the Owner access to all accounts and records relating thereto, including records of subcontractors and material suppliers.

G. Increased bonding costs for the Work which may result from Owner issued Changes in the Work will be addressed by the Owner at the completion of the Project Work upon submission of satisfactory proof of Contractor's increased cost.

H. Increased contractual liability insurance premium costs which may result from changes in the Work will be addressed by the Owner at the completion of the Work upon submission of satisfactory proof of Contractor's increased cost.

SECTION 8.02 – OVERHEAD AND PROFIT ALLOWANCE

A. See Example A for changes in the Work performed directly by the Contractor, whether a base cost is arrived at by estimated cost or actual cost method; add to base cost a sum equal to twenty percent. See Exceptions - Paragraphs “D” and “E”.

Example A:

Contractor base cost $1,000
20% overhead and profit 200
Total $1,200

B. See Example B for changes in the Work performed by a Subcontractor under contract with the Contractor, where estimated or actual cost is Ten Thousand Dollars ($10,000.00) or less; add to the base cost a sum equal to twenty percent of cost, for the benefit of the Subcontractor. For the benefit of the Contractor; add an additional sum equal to ten percent of the Subcontractor’s base cost.

Example B:

Subcontractor base cost $1,000
20% Subcontractor overhead and profit 200
Subcontractor Total $1,200
10% Contractor overhead and profit on base cost 100
Total $1,300
C. See Example C for changes in the Work performed by a Subcontractor, under contract with the Contractor, which exceeds a base cost of Ten Thousand Dollars ($10,000) in estimated or actual cost; add to the base cost a sum equal to twenty percent of cost for the benefit of the Subcontractor. For the benefit of the Contractor; add an additional sum equal to ten percent of the first Ten Thousand Dollars ($10,000) of the Subcontractor’s base cost, plus five percent of the next Ninety Thousand Dollars ($90,000) of the Subcontractor’s base cost, plus three percent of any sum in excess of One Hundred Thousand Dollars ($100,000) of the Subcontractor’s base cost.

Example C:
Subcontractor base cost $200,000
20% Subcontractor overhead and profit 40,000
Subcontractor Total $240,000
10% Contractor overhead and profit on first $10,000 base cost 1,000
5% on next $90,000 base cost 4,500
3% on base cost over $100,000 3,000
Total $248,500

D. See Example D for overhead and profit on major equipment such as: switchgear, transformers, air handling units, boilers, etc. For extra equipment purchases by the Contractor or Subcontractors which exceeds a base cost of Ten Thousand dollars ($10,000) in estimated or actual cost; add to the base cost for the benefit of the Contractor a sum equal to ten percent of the first Ten Thousand dollars ($10,000) of the vendor’s base cost plus five percent of the next Ninety Thousand dollars ($90,000) of the vendor’s base cost, plus three percent of any sum in excess of One Hundred Thousand dollars ($100,000) of the vendor’s base cost. If the equipment is supplied by the Subcontractor, the Contractor is entitled to a maximum of ten (10) percent of the first Ten Thousand dollars ($10,000) of the base cost.

Example D:
Vendor base cost $200,000
10% Contractor or Subcontractor overhead and profit on first $10,000 base cost 1,000
5% on next $90,000 base cost 4,500
3% on base cost over $100,000 3,000
Contractor or Subcontractor Total $208,500
10% Contractor overhead and profit on first $10,000 base cost when equipment is supplied by the Subcontractor, no other mark-up allowed 1,000
Total $209,500

E. See Example E for overhead and profit on a material only Change Order. For increased material purchases by the Contractor or Subcontractors which exceed a base cost of Ten Thousand dollars ($10,000) in estimated or actual costs; add to the base cost for the benefit of the Contractor a sum equal to ten percent of the first Ten Thousand dollars ($10,000) of the supplier’s cost plus five percent of the next Ninety Thousand dollars ($90,000) of the supplier’s cost, plus three percent of any sum in excess of One Hundred Thousand dollars ($100,000) of the supplier’s cost. If the material is supplied by the Subcontractor, the Contractor is entitled to a maximum of ten (10) percent of the first Ten Thousand dollars ($10,000) of the base cost.
Example E:
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material cost (net difference between original contract and revised)</td>
<td>$200,000</td>
</tr>
<tr>
<td>10% Contractor or Subcontractor overhead and profit on first $10,000 base cost</td>
<td>$1,000</td>
</tr>
<tr>
<td>5% on next $90,000 base cost</td>
<td>$4,500</td>
</tr>
<tr>
<td>3% on base cost over $100,000</td>
<td>$3,000</td>
</tr>
<tr>
<td>Contractor or Subcontractor Total</td>
<td>$208,500</td>
</tr>
<tr>
<td>10% Contractor overhead and profit on first $10,000 base cost when material</td>
<td>$1,000</td>
</tr>
<tr>
<td>is supplied by the Subcontractor, no other mark-up allowed</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$209,500</td>
</tr>
</tbody>
</table>

F. Other than the overhead and profit described in General Conditions Section 7.02A, no further overhead and profit will be allowed for changes to the Work performed by a Subcontractor under Subcontract with the Contractor or for major equipment or material supplier determined to be an affiliate of or controlled by the Contractor. An affiliate is considered any firm or entity in which the Contractor or any individual listed on the Contractor’s NYS Vendor Responsibility Questionnaire either owns 5% or more of the shares of, or is one of the five largest shareholders, a director, officer, member, partner or proprietor of said Subcontractor, major equipment or material supplier; a controlled firm is any firm or entity which, in the opinion of the Owner, is controlled by the Contractor or any individual listed on the Contractor’s NYS Vendor Responsibility Questionnaire.

1. The Owner, in its sole and exclusive discretion, will determine if a firm or entity is an affiliate of or controlled by the Contractor.

G. No overhead and profit shall be paid for changes in the Work performed by a Subcontractor not under Subcontract with the Contractor. No overhead and profit shall be paid on the premium portion of overtime pay. Where the changes in the Work involve both an increase and a reduction in similar or related Work, the overhead and profit allowance shall be applied only to the cost of the increase that exceeds the cost of the reduction.

SECTION 8.02A – DEDUCT CHANGE ORDER

The amount of credit to be allowed by the Contractor to the Owner for a deletion or change which results in a decrease in the Contract amount shall be as determined by the Owner. The credit shall include the overhead and profit allocable to the deleted or changed Work unless the Owner, in its sole and exclusive discretion, determines otherwise.

SECTION 8.03 – FORM OF CHANGE ORDERS

All Change Orders shall be processed, executed and approved on AIA document G701, which is included herein and made part of the Contract Documents. No alteration to this form shall be acceptable to the Owner and no payment for Extra Work shall be due the Contractor unless it executes a Change Order on said form.
ARTICLE 9 -- TIME OF COMPLETION

SECTION 9.01 – TIME OF COMPLETION

A. The Work shall be commenced at the time stated in the Owner's written notice to proceed, and shall be completed no later than the time of completion specified in the Contract Documents. Notwithstanding anything to the contrary, a schedule submitted by the Contractor showing a time of completion earlier than that specified in the Contract shall not entitle the Contractor to any additional compensation in the event the earlier time of completion is not realized.

B. It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the time for completion of the Work, as specified in the Contract Documents, is an essential and material condition of the Contract.

C. The Contractor agrees that the Work shall be prosecuted regularly, diligently and uninterruptedly at such rate of progress as shall insure full completion thereof within the time specified. It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for completion of the Work described herein is a reasonable time for completion of the same.

D. If the Contractor shall neglect, fail or refuse to complete the Work within the time specified, or any proper extension thereof granted by the Owner, the Contractor agrees to pay to the Owner for loss of beneficial use of the structure an amount specified in the Contract, not as a penalty, but as liquidated damages, for each and every calendar day that the Contractor is in default. Default shall include abandonment of the Work by the Contractor.

E. Said amount of liquidated damages is agreed upon by and between the Contractor and the Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages which the Owner would sustain for loss of beneficial use of the structure in the event of delay in completion, and said amount is agreed to be the amount of damages sustained by the Owner and said amount may be retained from time to time by the Owner.
F. It is further agreed that time is of the essence for each and every portion of the Work. In any instance in which additional time is allowed for the completion of any Work, the new time of completion established by said extension shall be of the essence. The Contractor shall not be charged with liquidated damages or any excess cost if the Owner determines that the Contractor is without fault and that the delay in completion of the Work is due:

1. to an unforeseeable cause beyond the control and without the fault of, or negligence of the Contractor, and approved by the Owner, including, but not limited to, acts of God or of public enemy, acts of the Owner, fires, epidemics, quarantine, restrictions, strikes, freight embargoes and unusually severe weather; and

2. to any delays of Subcontractors or suppliers occasioned by any of the causes specified in Subsections 1. of this paragraph.

The Contractor shall, within ten (10) days from the beginning of any such delay, notify the Owner, in writing, of the causes of the delay.

G. The time for completion can be extended only by Change Order approved by the Owner and may be extended for:

1. all of the Work, or

2. only that portion of the Work altered by the Change Order.

H. The foregoing liquidated damages are intended to compensate the Owner only for the loss of beneficial use of the structure. In addition, the Contractor shall be liable to the Owner for whatever actual damages (other than actual loss of beneficial use) the Owner may incur as a result of any actions or inactions of the Contractor or its Subcontractors including, without limitation, interest expense and carrying costs, liabilities to other Contractors working on the project or other third parties, job extension costs and other losses incurred by the Owner. The provisions of this paragraph are for the exclusive use of the Owner, and shall not accrue to other contractors or third parties.
ARTICLE 10 -- TERMINATION OR SUSPENSION

SECTION 10.01 – TERMINATION FOR CAUSE

In the event that any provision of the Contract is violated by the Contractor or by any Subcontractor, the Owner may serve written notice upon the Contractor and upon the Contractor's surety, if any, of the Owner's intention to terminate the Contract; such notice shall contain the reasons for the intention to terminate the Contract upon a date specified by the Owner. If the violation or delay shall not cease or arrangements satisfactory to the Owner shall not be made, the Contract shall terminate upon the date so specified by the Owner. In the event of any such termination, the Owner may take over the Work and prosecute same to completion by Contract or otherwise for the account and at the expense of the Contractor, and the Contractor and Contractor's surety shall be liable to the Owner for all costs occasioned the Owner thereby. In the event of such termination the Owner may take possession of and may utilize such materials, appliances and plant as may be on the Site and necessary or useful in completing the Work.

SECTION 10.02 – TERMINATION FOR CONVENIENCE OF OWNER

The Owner, at any time, may terminate the Contract in whole or in part. Any such termination shall be effected by delivering to the Contractor a notice of termination specifying the extent to which performance of Work under the Contract is terminated and the date upon which the termination becomes effective. Upon receipt of the notice of termination, the Contractor shall act promptly to minimize the expenses resulting from the termination. The Owner shall pay the Contractor for Work of the Contract performed by the Contractor and accepted by the Owner for the period extending from the date of the last approved Application for Payment up to the effective date of the termination, including retainage. In no event shall the Contractor be entitled to compensation in excess of the total consideration of the Contract. In the event of such termination the Owner may take over the Work and prosecute the Contract to completion and may take possession of and may utilize such materials, appliances, and equipment as may be on the Site and necessary or useful in completing the Work.

SECTION 10.03 – OWNER’S RIGHT TO DO WORK

The Owner may, after notice to the Contractor, without terminating the Contract and without prejudice to any other right or remedy the Owner may have, perform or have performed by others all of the Work or any part thereof and may deduct the cost thereof from any moneys due or to become due the Contractor.
SECTION 10.04 – SUSPENSION OF WORK

A. The Owner may order the Contractor in writing to suspend, delay or interrupt performance of all or any part of the Work for a reasonable period of time as the Owner may determine. The order shall contain the reason or reasons for issuance which may include but shall not be limited to the following: latent field conditions, substantial program revisions, acquisition of rights of way or real property, financial crisis, labor disputes, civil unrest or acts of God.

B. Upon receipt of a suspension order, the Contractor shall, as soon as practicable, cease performance of the Work as ordered and take immediate affirmative measures to protect such Work from loss or damage.

C. The Contractor specifically agrees that such suspension, interruption or delay of the performance of the Work pursuant to this Article shall not increase the cost of performance of the Work of this Contract.

D. Time for completion of the Work may be extended to such time as the Owner determines shall compensate for the time lost by the suspension, interruption or delay, such determination to be set forth in writing.

ARTICLE 11 -- DISPUTES

SECTION 11.01 – CLAIMS FOR EXTRA WORK

A. If the Contractor claims that any Work which the Contractor has been ordered to perform will be Extra Work, or that any action or omission of the Owner is contrary to the terms and provisions of the Contract and will require the Contractor to perform Extra Work the Contractor shall:

1. Promptly comply with said order.

2. File with the Owner and the architect within fifteen (15) working days after being ordered to perform the Work claimed by the Contractor to be Extra Work or within fifteen (15) working days after commencing performance of the Work, whichever date shall be earlier, or within fifteen (15) working days after the said action or omission on the part of the Owner occurred, a written notice of the basis of the Contractor's claim, including estimated cost, and request for a determination thereof.
3. Proceed diligently, pending and subsequent to the determination of the Owner with respect to any said disputed matter, with the performance of the Work in accordance with all instructions of the Owner.

B. No claim for Extra Work shall be allowed unless the same was done pursuant to a written order of the Owner. The Contractor's failure to comply with any or all parts of this Article shall be deemed to be:

1. a conclusive and binding determination on the part of the Contractor that said order, Work, action or omission does not involve Extra Work and is not contrary to the terms and provisions of the Contract,

2. a waiver by the Contractor of all claims for additional compensation or damages as a result of said order, Work, action or omission.

C. The value of claims for Extra Work, if allowed, shall be determined by the methods described in the Contract.

SECTION 11.02 – CLAIMS FOR DELAY

No claims for increased costs, charges, expenses or damages of any kind shall be made by the Contractor against the Owner for any delays or hindrances from any cause whatsoever; provided that the Owner, in the Owner's discretion, may compensate the Contractor for any said delays by extending the time for completion of the Work as specified in the Contract.

SECTION 11.03 – FINALITY OF DECISIONS

A. Any decision or determination of the Architect, Owner or the Owner's Representative shall be final, binding and conclusive on the Contractor unless the Contractor shall, within ten (10) working days after said decision, make and deliver to the Owner a verified written statement of the Contractor's contention that said decision is contrary to a provision of the Contract. The Owner shall determine the validity of the Contractor's contention. Pending the decision of the Owner, the Contractor shall proceed in accordance with the original decision.

B. Wherever it is required in the Contract that an application must be made to the Owner or a determination made by the Owner, the decision of the Owner on said application or the determination of the Owner under the Contract shall be final, conclusive and binding upon the Contractor unless the Contractor, within ten (10) working days after receiving notice of the Owner's decision or determination, files a written statement with the Owner that the Contractor reserves the Contractor's rights in connection with the matters covered by said decision or determination.
ARTICLE 12 -- SUBCONTRACTS

SECTION 12.01 – SUBCONTRACTING

A. The Contractor may utilize the services of Subcontractors subject to the bid terms and conditions.

B. The Contractor shall submit to the Owner, in writing, the name of each proposed Subcontractor as required by the Contract or earlier when requested. The Owner reserves the right to disapprove any proposed Subcontractor. Such disapproval shall not result in additional cost to the Owner.

C. The Contractor shall be fully responsible for the Work, acts and omissions of Subcontractors, and of persons either directly or indirectly employed by Subcontractors.

D. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the Contractor by the terms of the Contract Documents insofar as applicable to the work of Subcontractors.

E. The Contractor's use of Subcontractors shall not diminish the Contractor's obligation to complete the Work in accordance with the Contract Documents. The Contractor shall control and coordinate the work of Subcontractors.

F. Nothing contained in the Contract or any subcontract shall create any contractual relationship between Subcontractors and the Owner.
ARTICLE 13 -- CONTRACT COORDINATION AND COOPERATION

SECTION 13.01 – COOPERATION WITH OTHER CONTRACTORS

A. During the progress of the Work, other contractors may be engaged in performing work. The Contractor shall coordinate the Contractor's Work with the work of said other contractors in such a manner as the Owner may direct.

B. If the Owner shall determine that the Contractor is failing to coordinate the Work with the work of other contractors as the Owner has directed:

1. the Owner shall have the right to withhold any payments due under the Contract until the Owner's directions are complied with by the Contractor; and

2. the Contractor shall assume the defense and pay on behalf of the Owner any and all claims or judgments or damages and from any costs or damages to which the Owner may be subjected or which the Owner may suffer or incur by reason of the Contractor's failure to promptly comply with the Owner's directions.

C. If the Contractor notifies the Owner, in writing, that another contractor on the Site is failing to coordinate the work of said contractor with the Work, the Owner shall investigate the charge. If the Owner finds it to be true, the Owner shall promptly issue such directions to the other contractor with respect thereto as the situation may require. The Owner shall not be liable for any damages suffered by the Contractor by reason of the other contractor's failure to promptly comply with the directions so issued by the Owner, or by reason of another contractor's default in performance.

D. Should the Contractor sustain any damage through any act or omission of any other contractor having a contract with the Owner or through any act or omission of any Subcontractor of said other contractor, the Contractor shall have no claim against the Owner for said damage.

E. Should any other contractor having or which shall have a contract with the Owner sustain damage through any act or omission of the Contractor or through any act or omission of a Subcontractor, the Contractor shall reimburse said other contractor for all said damages and shall indemnify and hold the Owner harmless from all said claims.
F. The Owner cannot guarantee the responsibility, efficiency, unimpeded operations or performance of any Contractor. The Contractor acknowledges these conditions and shall bear the risk of all delays including, but not limited to, delays caused by the presence or operations of other contractors and delays attendant upon any construction schedule approved by the Owner and the Owner shall not incur any liability by reason of any delay.

SECTION 13.02 – SEPARATE CONTRACTS

A. The Owner may award other contracts, work under which may proceed simultaneously with the execution of the Work. The Contractor shall coordinate the Contractor's operations with those of other contractors as directed by the Owner. Cooperation shall be required in the arrangements for access, the storage of material and in the detailed execution of the Work.

B. The Contractor shall keep informed of the progress and workmanship of other contractors and any Subcontractors and shall notify the Owner in writing immediately of lack of progress or defective workmanship on the part of other contractors or subcontractors, where said delay or defective workmanship may interfere with the Contractor's operations.

C. Failure of a Contractor to keep so informed and failure to give notice of lack of progress or defective workmanship by others shall be construed as acceptance by the Contractor of said progress and workmanship as being satisfactory for proper coordination with the Work.

D. Where the Contractor shall perform Work in close proximity to work of other contractors or subcontractors, or where there is evidence that Work of the Contractor may interfere with work of other contractors or subcontractors, the Contractor shall assist in arranging space conditions to make satisfactory adjustment for the performance of said work and the Work. If the Contractor performs work in a manner which causes interference with the work of other contractors or subcontractors, the Contractor shall make changes necessary to correct the condition.

SECTION 13.03 – COORDINATED COMPOSITE DRAWINGS

The Contractor shall prepare coordinated composite scale reproducible drawings and sections, on reproducible paper, clearly showing how the Work of the Contractor is to be performed in relation to work of other contractors or subcontractors.
ARTICLE 14 -- PROTECTION OF RIGHTS, PERSONS AND PROPERTY

SECTION 14.01 – ACCIDENT PREVENTION

The Contractor shall, at all times, take every precaution against injuries to persons or damage to property and for the safety of persons on or about the Site or engaged in the performance of the Work.

SECTION 14.02 – SAFETY PROGRAMS

The Contractor shall be responsible for the initiation, maintenance and supervision of safety precautions and programs in connection with the Work.

SECTION 14.03 – PROTECTION OF WORK AND PROPERTY

A. The Contractor shall, at all times, guard the Owner's property from injury or loss in connection with the Work. The Contractor shall, at all times, guard and protect the Contractor's Work, and adjacent property. The Contractor shall replace or make good any said loss or injury unless said loss or injury is caused directly by the Owner.

B. The Contractor shall have full responsibility to protect and maintain all materials and supplies on and off site in proper condition and forthwith repair, replace and make good any damage thereto until construction completion. The Contractor shall maintain an inventory of all materials and supplies for the Project that are delivered to the Site or approved for off-site storage facilities.

C. The Contractor shall report any loss, theft, burglary, vandalism or damage of materials or installed work to the Owner by phone and fax as soon as it is discovered. If vandalism, theft, or burglary are suspected as the cause of the loss, the Contractor shall notify site security personnel and the municipal police. The Contractor shall also protect the place of the loss until released from protection by the Owner or the Owner's Representative. The Contractor shall insure that no potential evidence relating to the loss is removed from the place of the loss.
SECTION 14.04 – ADJOINING PROPERTY

The Contractor shall protect all adjoining property and shall repair or replace any said property damaged or destroyed during the progress of the Work.

SECTION 14.05 – RISKS ASSUMED BY THE CONTRACTOR

A. The Contractor solely assumes the following distinct and several risks whether said risks arise from acts or omissions, whether supervisory or otherwise, of the Owner, of any Subcontractor, of third persons or from any other cause, including unforeseen obstacles and difficulties which may be encountered in the execution of the Work, whether said risks are within or beyond the control of the Contractor and whether said risks involve any legal duty, primary or otherwise, imposed upon the Owner, excepting only risks which arise from faulty designs as shown by the plans and specifications or from the negligence of the Owner or the Owner's members, officers, representatives or employees that caused the loss, damage or injuries hereinafter set forth:

1. The risk of loss or damage, includes direct or indirect damage or loss, of whatever nature to the Work or to any plant, equipment, tools, materials or property furnished, used, installed or received by the Owner, the Construction Manager, the Contractor or any Subcontractor, material or workmen performing services or furnishing materials for the Work. The Contractor shall bear said risk of loss or damage until construction completion or until completion or removal of said plant, equipment, tools, materials or property from the Site and the vicinity thereof, whichever event occurs last. In the event of said loss or damage, the Contractor immediately shall repair, replace or make good any said loss or damage.

2. The risk of claims, just or unjust, by third persons against the Contractor or the Owner and the Construction Manager on account of wrongful death, bodily injuries and property damage, direct or consequential, loss or damage of any kind whatsoever arising or alleged to arise out of or as a result of or in connection with the performance by the Contractor of the Work, whether actually caused by or resulting from the performance of the Work, or out of or in connection with the Contractor's operations or presence at or in the vicinity of the Site. The Contractor shall bear the risk for all deaths, injuries, damages or losses sustained or alleged to have been sustained prior to the construction completion of the Work. The Contractor shall bear the risk for all deaths, injuries, damages or losses sustained or alleged to have been sustained resulting from the Contractor's negligence or alleged negligence which is discovered, appears or is manifested after acceptance by the Owner.
3. The Contractor assumes entire responsibility and liability for any and all damage or injury of any kind or nature whatsoever, including death resulting therefrom, to all persons, whether employees of the Contractor or otherwise, and to all property, caused by, resulting from, arising out of or occurring in connection with the execution of the Work. If any person shall make said claim for any damage or injury, including death resulting therefrom, or any alleged breach of any statutory duty or obligation on the part of the Owner, the Owner's Representative, Construction Manager, servants and employees, the Contractor shall assume the defense and pay on behalf of the Owner, the Owner's Representative, the Construction Manager, servants and employees, any and all loss, damage or injury that the Owner, the Owner's Representative, Construction Manager, servants and employees, may sustain as the result of any claim, provided however, the Contractor shall not be obligated to indemnify the Owner, the Owner's Representative, Construction Manager, servants and employees for their own negligence, if any. The Contractor agrees to assume, and pay on behalf of the Owner and the Owner's Representative, Construction Manager, servants and employees, the defense of any action at law or equity which may be brought against the Owner and the Owner's Representative, Construction Manager, servants and employees. The assumption of defense and liability by the Contractor includes, but is not limited to the amount of any legal fees associated with defending, all costs of investigation, expert evaluation and any other costs including any judgment or interest or penalty that may be entered against the Owner and the Owner's Representative, Construction Manager, servants and employees, in any said action.

4. The Contractor is advised that the Work required under this Contract may impose certain obligations and requirements mandated by the U.S. Department of Labor Occupational Safety and Health Administration regulations, Title 29 CFR Part 1926.62 Lead Exposure in Construction, relative to the potential exposure to lead by its employees. The Contractor assumes entire responsibility and liability for complying fully in all respects with these regulations.

B. The Contractor's obligations under this Article shall not be deemed waived, limited or discharged by the enumeration or procurement of any insurance for liability for damages. The Contractor shall notify its insurance carrier within twenty four (24) hours after receiving a notice of loss or damage or claim from the Owner.
The Contractor shall make a claim on its insurer specifically under the provisions of the contractual liability coverages and any other coverages afforded the Owner including those of being an additional insured where applicable.

C. Neither Final Acceptance of the Work nor making any payment shall release the Contractor from the Contractor's obligations under this Article. The enumeration elsewhere in the Contract of particular risks assumed by the Contractor or of particular claims for which the Contractor is responsible shall not be deemed to limit the effect of the provisions of this Article or to imply that the Contractor assumes or is responsible for only risks or claims of the type enumerated; and neither the enumeration in this Article nor the enumeration elsewhere in the Contract of particular risks assumed by the Contractor of particular claims for which the Contractor is responsible shall be deemed to limit the risks which the Contractor would assume or the claims for which the Contractor would be responsible in the absence of said enumerations.

Upon the conclusion of any action, proceeding or lawsuit, should a final binding determination of responsibility be made which allocates responsibility to the Owner, or the Owner’s members, officers, employees or representatives, the Owner agrees that the obligation to indemnify and hold harmless shall not be applicable to the portion of any uninsured money judgment for which the Owner is responsible, and the Owner agrees to pay the Contractor the percentage of uninsured defense costs which the Contractor incurred based upon an apportionment of the Owner’s allocated responsibility.

The Contractor agrees that any claim or costs of the Owner and/or Construction Manager arising from obligations in this Article and/or Article 15 shall be set off or deducted from payments due the Contractor.

ARTICLE 15--INSURANCE AND CONTRACT SECURITY

SECTION 15.01 – INSURANCE PROVIDED BY CONTRACTOR

A. The Contractor shall procure and maintain all of the insurance required under this Article until all Work, including punch list items, is complete.

The Contractor shall provide insurance as follows:

1. Workers’ Compensation and Employers Liability Insurance

   a. Statutory Workers’ Compensation (including occupational disease)
b. Employers Liability (with a minimum limit of $1,000,000) New York Statutory Endorsement

2. Commercial General Liability (CGL) with a combined single limit for Bodily Injury, Personal Injury and Property Damage of at least $2,000,000 per occurrence & aggregate. The limit may be provided through a combination of primary and umbrella/excess liability policies.

Coverage shall provide and encompass the following:

a. Written on an occurrence form;

b. Endorsement naming the following as additional insureds: The Fashion Institute of Technology, its auxiliary corporations, the State University of New York, the New York City Department of Education and the City and State of New York, the Construction Manager (if applicable) and other entities specified.

c. Policy or policies must be endorsed to be primary as respects the coverage afforded the Additional Insureds and such policy shall be primary to any other insurance maintained by the Owner. Any other insurance maintained by the Owner shall be excess of and shall not contribute with the Contractor’s or Subcontractor’s insurance, regardless of the “other insurance” clause contained in the Owner’s own policy of insurance.

3. Commercial Automobile Liability and Property Damage Insurance covering all owned, leased, hired and non-owned vehicles used in connection with the Work with a combined single limit for Bodily Injury and Property Damage of at least $1,000,000 per occurrence. The limit may be provided through a combination of primary and umbrella/excess liability policies.

4. Umbrella/excess liability insurance with limits of:

   $5,000,000 per occurrence
   $5,000,000 general aggregate

B. Before commencement of Work, the Contractor shall submit to the Owner for approval two (2) Certificates of Insurance, indicating the Project. Certificates shall provide thirty (30) days’ written notice prior to the cancellation, non-renewal, or material modification of any policy. Upon request, the Contractor shall furnish the Owner and the Construction Manager with certified copies of each policy. In addition, where applicable, the Contractor shall provide copies of Certificates of Insurance to the Construction Manager.
Certificates shall be forwarded to Owner in care of: Purchasing

Sammy Li
Purchasing Deputy Director
FIT Purchasing
333 Seventh Avenue, 15th Floor
New York, NY 10001

Certificate(s) of Insurance, when submitted to the Owner, constitutes a warranty by the Contractor that the insurance coverage described is in effect for the policy term shown.

Should the Contractor engage a Subcontractor, the same conditions as are applicable to the Contractor under these insurance requirements shall apply to each Subcontractor of every tier. Proof thereof shall be supplied to the Owner at the address listed above.

C. All insurance required to be procured and maintained must be procured from insurance companies licensed to do business in the State of New York and rated at least B+ by A.M. Best and Company, or meet such other requirements as are acceptable to the Owner.

D. Should the Contractor fail to provide or maintain any insurance required by this Contract, the Owner may, after providing written notice to the Contractor, purchase insurance complying with the requirements of this Article and charge back such purchase to the Contractor.

E. At any time that the coverage provisions and limits on the policies required herein do not meet the provisions and limits set forth above, the Contractor shall immediately cease Work on the Project. The Contractor shall not resume Work on the Project until authorized to do so by the Owner. Any delay or time lost as a result of the Contractor not having insurance required by this Article shall not give rise to a delay claim or any other claim against the Owner or the Client.

F. Notwithstanding any other provision in this Article, the Owner may require the Contractor to provide, at the expense of the Owner, any other form or limit of insurance necessary to secure the interests of the Owner.

G. The Contractor shall secure, pay for, and maintain Property Insurance necessary for protection against the loss of owned, borrowed or rented capital equipment and tools, including any tools owned by employees, and any tools or equipment, staging towers, and forms owned, borrowed or rented by the Contractor. The requirement to secure and maintain such insurance is solely for the benefit of the Contractor. Failure of the Contractor to secure such insurance or to maintain adequate levels of coverage shall not render the Additional Insureds or their
agents and employees responsible for any losses; and the Additional Insureds, their agents and employees shall have no such liability.

H. Neither the procurement nor the maintenance of any type of insurance by the Owner, the Contractor or the Construction Manager shall in any way be construed or deemed to limit, discharge, waive or release the Contractor from any of the obligations or risks accepted by the Contractor or to be a limitation on the nature or extent of said obligations and risks.

SECTION 15.01A – OTHER INSURANCE PROVIDED BY CONTRACTOR

Railroad Protective Liability insurance: If any Work of the Contract is to be performed on or within fifty (50) feet of a railroad property or railroad right of way or will require entrance upon railroad property or right of way or will require assignment of a railroad employee, the Contractor shall provide and maintain a Railroad Protective Liability policy with the policy limits required by the owner(s) of the railroad, including the MTA. For purposes of this paragraph, a subway is a railroad. The policy form shall be ISO-RIMA or an equivalent form approved by the owner(s) of the railroad. The railroad owner(s) shall be the named insured on the policy and the definition of “physical damage to property” shall mean direct and accidental loss of or damage to all property of any named insured and all property in any named insured’s care, custody, or control. If the Contractor shall provide a Railroad Protective Liability insurance policy, the Contractor and any Subcontractor performing on or within fifty (50) feet of railroad property or railroad right of way or entering railroad property or right of way or requiring assignment of a railroad employee shall have their CGL insurance policy endorsed to delete the exclusion of coverage for Work within fifty (50) feet of railroad property.

SECTION 15.02 – GENERAL CONFORMANCE

The Contractor and Subcontractors shall not violate, or be permitted to violate, any term or condition of their insurance policies, and shall at all times satisfy the safety requirements of the Owner and of the insurance companies issuing such policies.

SECTION 15.03 – CONTRACT SECURITY

The Contractor shall furnish a surety bond in an amount at least equal to one hundred (100%) of the Contract price as security for the faithful performance of the Contract and also labor and material bond in the form set forth in the Contract in an amount at least equal to one hundred (100%) of the Contract price for the payment of all persons performing labor or providing materials in connection with the Work. The surety on said bond shall be a surety company authorized to do business in the State of New York and shall be rated at least B+ by A.M. Best and Company, or meet such other requirements as are acceptable to the Owner.
SECTION 15.04 – ADDITIONAL OR SUBSTITUTE BOND

If at any time the Owner shall become dissatisfied with any surety or sureties upon the performance bond, or the labor and material payment bond, or if for any other reason said bonds shall cease to be adequate security to the Owner, the Contractor shall, within five (5) days after notice from the Owner to do so, substitute an acceptable bond or bonds in such form and sum and signed by such other surety or sureties as may be satisfactory to the Owner. The premiums on said bond or bonds shall be paid by the Contractor. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable bond or bonds to the Owner.

SECTION 15.05 – FAILURE TO COMPLY WITH PROVISIONS OF ARTICLE 15

The Contract may, at the sole option of the Owner, be declared void and of no effect if the Contractor fails to comply with the provisions of Article 15.

ARTICLE 16 -- USE OR OCCUPANCY PRIOR TO ACCEPTANCE BY OWNER

SECTION 16.01 – OCCUPANCY PRIOR TO ACCEPTANCE

NOT APPLICABLE

ARTICLE 17 -- PAYMENT

SECTION 17.01 – PROVISION FOR PAYMENT

A. The Owner may make a partial payment to the Contractor on the basis of an approved estimate of the Work performed during each preceding business month. The Owner shall retain ten percent (10%) of the amount of each said estimate.

The Contractor shall submit a detailed Contract Payment Breakdown prior to the Contractor's first application for payment. The model contract payment breakdown included in the Contract Documents shall establish the minimum level of detail required for the Contractor's payment breakdown. It is understood and the Contractor acknowledges that this model is included as an administrative tool for
the purpose of illustrating a format and minimum level of detail required for the Contract Payment Breakdown and shall not be considered as delineating the Contractor's Scope of Work. The Owner may request further and more detailed Contract Payment Breakdown. Further, the Owner reserves the right to accept only those cost distributions which, in the Owner's opinion, are reasonable, equitably balanced and correspond to the estimated quantities in the Contract Documents.

No payment shall be made by the Owner until the Contract Payment Breakdown is approved by the Owner.

Each monthly partial payment requisition must include Affirmative Action Form AAP 7.0, Contractor's Compliance Report, properly executed, as a condition precedent to requisition payment by the Owner.

B. In preparing estimates for partial payment, material delivered to the Site and properly stored and secured at the Site, and Material approved to be stored off-site under such conditions as the Owner shall prescribe may be taken into consideration. All costs related to the storage of materials are the sole responsibility of the Contractor.

The Owner will provide an Agreement for Materials Stored Off-Site and specific forms which the Contractor must complete and submit with any request for approval of partial payment for such material. Required information includes but is not limited to: a general description of the material; a detailed list of the materials; a pre-approved storage area; segregation and identification of the material; insurance covering full value against all risks of loss or damage, with non-cancellation provision; immediate replacement agreement in event of loss or damage; agreement to pay the expense of all inspections of the material; ownership provisions; delivery guarantee; project completion statement; bill of sale, releases, and inventory.

C. Any partial payment made shall not be construed as a waiver of the right of the Owner to require the fulfillment of all the terms of the Contract.

D. After the Owner has determined Substantial Completion of the Work, the Contractor shall submit to the Owner, for the Owner's approval, a detailed estimate of the value of the known remaining items of Work as set forth by the Owner and a schedule of completion for said items of Work. The Owner shall review that estimate and make the final determination.

The Owner, when all the Work is substantially complete, shall pay to the Contractor the balance due the Contractor pursuant to the Contract, less:

1. two (2) times the value of any remaining items of Work to be completed or corrected; and
2. an amount necessary to satisfy any and all claims, liens or judgments against the Contractor.

As the remaining items of Work are completed and accepted by the Owner, the
Owner shall pay the appropriate amount pursuant to the duly completed and submitted monthly requisitions.

The list of remaining Work items may be expanded to include additional items of corrective or completion Work until final acceptance as certified by the Owner's execution of "Notification of Construction Completion". Appropriate payments may be withheld to cover the value of these items pursuant to this Section.

E. All Monthly Requisitions submitted by the Contractor shall be on AIA documents G702 and G703. The Contractor shall furnish such affidavits, vouchers and receipts as to delivery and payment for materials as required by the Owner to substantiate each and every payment requested. The Contractor and its Subcontractors will submit with all applications for payment copies of the certified payrolls and certification of payment of wage supplements in a form satisfactory to the Owner. The submission of Contractor and Subcontractor certified payrolls is required at least monthly. No progress payments will be processed without submission by the Contractor of properly executed Affidavit of Payment and Release of Liens (AIA Documents G706 and G706A).”

**Section 17.02 - Acceptance of the First Payment Pursuant to Section 17.01 D. of the Contract Constitutes Release**

The acceptance by the Contractor of the first payment pursuant to Section 17.01 D. shall be and shall operate as a release to the Owner of all claims by and all liability to the Contractor for all things in connection with the Work and for every act and neglect of the Owner and others relating to or arising out of the Work. No payment, final or otherwise, shall operate to release the Contractor or the Contractor's sureties from any obligations under this Contract or the performance or labor and material payment bonds.

**SECTION 17.03 – RELEASE AND CONSENT OF SURETY**

Notwithstanding any other provision of the Contract Documents to the contrary, the first payment pursuant to Section 17.01 D. shall not become due until the Contractor submits to the Owner a General Release and a Consent of Surety to said payment pursuant to Section 17.01 D., both in form and content acceptable to the Owner.

**SECTION 17.04 - LIENS**

Upon the Owner's receipt of a lien, a sum which shall be one and one-half (1 1/2) times the amount stated to be due in the notice of lien shall be deducted from the current payment due the Contractor. This sum shall be withheld until the lien is discharged.
SECTION 17.05 – WITHHOLDING OF PAYMENTS

A. The Owner may withhold from the Contractor any part of any payment as may, in the judgment of the Owner, be necessary:

   1. to assure payment of just claims of any persons supplying labor or materials for the Work;

   2. to protect the Owner from loss due to defective Work not remedied; or

   3. to protect the Owner, Construction Manager or Consultant from loss due to failure to defend, loss due to injury to persons or damage to the Work or property of other contractors, Subcontractors or others caused by the act or neglect of the Contractor or Subcontractors.

   4. to assure payment of fines and penalties which may be imposed on the Contractor pursuant to the provisions of this Contract.

B. The Owner shall have the right to apply any such amounts so withheld, in such manner as the Owner may deem proper to satisfy said claims, fines and penalties or to secure said protection. Said application of the money shall be deemed payments for the account of the Contractor.

C. The provisions of this Article 17 are solely for the benefit of the Owner, and any action or non-action hereunder by the Owner shall not give rise to any liability on the part of the Owner.

SECTION 17.06 – OWNER’S RIGHT TO AUDIT AND INSPECTION OF RECORDS

The Contractor shall maintain and keep, for a period of at least six (6) years after the date of final payment, all records and other data relating to the Work, including records of Subcontractors and material suppliers. The Owner or the Owner’s Representative shall have the right to inspect and audit all records and other data of the Contractor, Subcontractors and material suppliers relating to the Work.

SECTION 17.07 – FALSE STATEMENTS/INFORMATION

A. False statements, information or data submitted on or with applications for payment may result in one or more of the following actions:

   1. Termination of the Contract for cause;

   2. Disapproval of future bids or contracts and sub-contracts;

   3. Withholding of final payment on the Contract; and

   4. Civil and/or criminal prosecution.
B. These provisions are solely for the benefit of the Owner, and any action or non-action hereunder by the Owner shall not give rise to any liability on the part of the Owner.

ARTICLE 18 -- TAX EXEMPTION

SECTION 18.01 – TAX EXEMPTION

A. The Owner is exempt from payment of Federal, State, local taxes and sales and compensating use taxes of the State of New York and of cities and counties on all materials and supplies incorporated into the completed Work. These taxes are not to be included in bids. This exception does not apply to tools, machinery, equipment or other property leased by or to the Contractor or a Subcontractor, or to supplies and materials which, even though they are consumed, are not incorporated into the completed Work, and the Contractor and Subcontractors shall be responsible for and pay any and all applicable taxes, including sales and compensating use taxes, on said leased tools, machinery, equipment or other property and upon all said unincorporated supplies and materials.

B. The Contractor and Subcontractors shall obtain any and all necessary certificates or other documentation from the appropriate governmental agency or agencies, and use said certificates or other documentation as required by law, rule or regulation.

ARTICLE 19 -- GUARANTEE

SECTION 19.01 - GUARANTEE

The Contractor shall in all respects guarantee the Work to the Owner and be responsible for all material, equipment and workmanship of the Work. The Contractor shall forthwith repair, replace or remedy in a manner approved by the Owner, any said material, equipment, workmanship, or other part of the Work found by the Owner to be defective or otherwise faulty and not acceptable to the Owner, which defect or fault appears during the minimum period of one (1) year, or such longer period as may be prescribed by the Contract, from the date of Construction Completion or any part thereof, by the Owner. The Contractor shall also pay for any damage to the Work resulting from said defect or fault.

ARTICLE 20 -- STANDARD PROVISIONS

SECTION 20.01 – PROVISIONS REQUIRED BY LAW DEEMED INSERTED

Each and every provision of law and clause required by law to be inserted in the Contract shall be deemed to be inserted therein and the Contract shall read and shall be enforced as though so included therein.
SECTION 20.02 – COMPLIANCE WITH LAWS, RULES AND REGULATIONS

The Contractor shall comply fully with all applicable laws, rules and regulations.

SECTION 20.03 – LAW GOVERNING THE CONTRACT

The Contract shall be governed by the laws of the state of New York.

SECTION 20.04 - ASSIGNMENT

The Contractor shall not assign the Contract in whole or in part without prior written consent of the Owner. If the Contractor assigns all or part of any moneys due or to become due under the Contract, the instrument of assignment shall contain a clause substantially to the effect that the Contractor and assignee agree that the assignee's right in and to any moneys due or to become due to the Contractor shall be subject to all prior claims for services rendered or materials supplied in connection with the performance of the Work.

SECTION 20.05 – NO THIRD PARTY RIGHTS

Nothing in the Contract shall create or shall give to third parties any claim or right of action against the Owner, the Fashion Institute of Technology, the State University of New York, Board of Education of the City of New York, the City or State of New York and the Construction Manager beyond such as may legally exist irrespective of the Contract.

SECTION 20.06 – CONTRACT DEEMED EXECUTORY

The Contractor agrees that the Contract shall be deemed executory to the extent of moneys available and that no liability shall be incurred by the Owner beyond the moneys available therefore.

SECTION 20.07 – ANTI-RIOT PROVISIONS

A. The Contractor agrees that no part of the Contract funds shall be used to make payments, give assistance, or supply services, in any form, to any individual convicted in any Federal, State or local court of competent jurisdiction for inciting, promoting, or carrying on a riot or engaging in any group activity resulting in material damage to property or injury to persons found to be in violation of Federal, State or local laws designed to protect persons or property.

B. The Contractor and each Subcontractor shall notify their employees of all rules and
regulations adopted pursuant to Article 129-A of the Education Law of the State of New York. Notices containing the text of the aforementioned rules and regulations shall be posted by the Contractor at the Site.

SECTION 20.08 – DOMESTIC STEEL

The Contractor agrees, that if the value of this contract exceeds $100,000 all structural steel, reinforcing steel and other major steel items to be incorporated in the Work of this Contract shall be produced and made in whole or substantial part in the United States, its territories or possessions.

SECTION 20.09 – PROTECTION OF LIVES AND HEALTH

A. Each Contractor and Subcontractor shall comply with all applicable provisions of the laws of the State of New York, the United States of America and with all applicable rules and regulations adopted or promulgated by agencies or municipalities of the State of New York or the United States of America. The Contractor's and Subcontractor's attention is specifically called to the applicable rules and regulations, codes and bulletins of the New York State Department of Labor and to the standards imposed under the Federal Occupational Safety and Health Act of 1970, as amended.

B. The Contractor shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment of Work under the Contract, and shall immediately notify the Owner in writing of any injury which results in hospitalization or death. The Contractor shall provide to the Owner a copy of Form C-2, Employers Report of Injury/Illness within twenty-four (24) hours of any job related injury on the Owner's job site. Further, a copy of the OSHA Log of Injury and Illness shall also be provided to the Owner for any reporting period in which a job related injury or illness is recorded. The Contractor shall also provide a list of witnesses to the Owner. The list shall include at least the full name, home address, occupation and telephone number of each person who saw or has knowledge of the incident which caused the injury or illness.

C. The Contractor alone shall be responsible for the safety, efficiency and adequacy of the Contractor's Work, plant, appliances and methods, and for any damage which may result from the failure or the improper construction, maintenance or operation of such Work, plant, appliances and methods.

D. If, in the performance of the Work, a harmful hazard is created for which appliances or methods of elimination have been approved by regulatory authorities, the Contractor shall install, maintain and operate said appliances or methods.

E. The Owner may impose a payment penalty on the Contractor for any act of non-compliance with this section. The payment penalty shall not exceed one twentieth
(1/20) of the Contract price or a maximum of One Thousand Dollars ($1,000.00) for each time the Contractor fails to perform or to provide the information, reports or forms required in this section. This payment penalty is not exclusive, the Owner may avail itself of any other contractual remedy available.

F. The Owner, Owner's Representative, or Architect may inspect the Site at any time without notice to the Contractor. If the Owner or its representatives find that the Contractor is not complying with Section 20.10 A or any other provision of Section 20.10, the Owner may send written notice to the Contractor to correct any deficiency. Upon re-inspection, if the Owner finds the deficiencies have not been corrected, or in instances where a safety violation(s) must be corrected before Work continues and the Contractor is given three (3) hours to make correction(s) and they are not made, the Owner may let a separate contract to correct any deficiencies and back charge the cost of the separate contract to the Contractor at a premium rate. The Contractor cannot pass these additional charges on to the Owner. No action taken under this section shall be deemed as a basis for any delay claim or any other claim against the Owner by the Contractor.

G. The Contractor shall preserve and safeguard the scene of an accident involving a ladder, scaffold, mobile machinery, equipment, safety railing or uncovered floor opening or any other incident where the injured person required emergency medical treatment. The Contractor shall "tape off" the area, and not allow any material object or property to be altered, changed, moved or removed from the accident site. In addition to "taping off" the accident site, the Contractor shall telephone and send a facsimile or email to Owner immediately, and post a person at the accident site to protect it. Safeguarding and protecting the accident site shall only be abandoned by the Contractor upon release by the Owner or the Owner's Representative. Failure of the Contractor to comply with the provisions of this paragraph shall be deemed a breach of this Contract. In addition to any other contractual remedies available, the Owner may satisfy the breach by imposing the penalties set out in paragraph 20.10 E or void the entire Contract and retain any or all amounts due the Contractor under this Contract.
SECTION 20.10 – PROHIBITED INTERESTS / ETHICAL CONDUCT

A. No officer, employee, architect, attorney, engineer, inspector or consultant of or for the Owner authorized on behalf of the Owner to exercise any legislative, executive, administrative, supervisory or other similar functions in connection with the Contract or the Work, shall become personally interested, directly or indirectly, in the Contract, material supply contract, subcontract, insurance contract, or any other contract pertaining to the Work.

B. The Owner strongly discourages the Contractor from offering or giving anything of value to employees of the Owner under circumstances which may constitute, or even suggest, impropriety. Contractor, or its agents, shall not directly or indirectly offer or give any gift whether in the form of money, service, loan, travel, lodging, meals, refreshments, entertainment, discount, forbearance or promise, or in any other form, to an employee or any representatives of the Owner.

C. To promote a working relationship with the Owner based on ethical business practices, the Contractor shall:

• furnish all goods, materials and services to the Owner as contractually required and specified,

• submit complete and accurate reports to the Owner and its representatives as required,

• not seek, solicit, demand or accept any information, verbal or written, from the Owner or its representatives that provides an unfair advantage over a competitor,

• not engage in any activity or course of conduct that restricts open and fair competition on Owner-related projects and transactions,

• not engage in any course of conduct with Owner employees or its representatives that constitutes a conflict of interest, in fact or in appearance, and

• not offer or give any unlawful gifts or gratuities, or engage in bribery or other criminal activity.

D. The Owner encourages the Contractor to advance and support ethical business conduct and practices among its directors, officers and employees, through the adoption of corporate ethics awareness training programs and written codes of conduct.

E. Although the Contractor may employ relatives of Owner’s employees, the Owner must be made aware of such circumstances as soon as possible, in writing, to ensure a conflict of interest situation does not arise. The Owner reserves the right to request that the Contractor modify the work assignment of a relative of an Owner’s
employee or representative where a conflict of interest, or the appearance thereof, is deemed to exist.

F. The Contractor may hire former employees of the Owner. However, as a general rule, former employees of the Owner may neither appear nor practice before the Owner, nor receive compensation for services rendered on a matter before the Owner, for a period of two (2) years following their separation from service with the Owner. In addition, former employees of the Owner are subject to a “lifetime bar” from appearing before the Owner or receiving compensation for services regarding any transaction in which they personally participated or which was under their active consideration during their tenure with the Owner.

G. The Contractor agrees to notify Stephen Tuttle, Esq., the Owner’s attorney, at (212) 217-4030 of any activity by an employee of the Owner that is inconsistent with the contents of this Section.

H. Any violation of these provisions shall justify termination of this Contract and may result in Owner’s rejection of the Contractor’s bids or proposals for future contracts.

SECTION 20.11 – STATE AND FEDERAL LABOR LAW PROVISIONS

A. Although the Work of this Contract is not public work, the Owner intends that all applicable provisions of the Labor Law of the State of New York shall be carried out in the performance of the Work.

B. The Contractor specifically agrees to comply with Labor Law, Sections 220 and 220-d as amended, that:

1. no laborer, workman or mechanic, in the employ of the Contractor, Subcontractor or other person doing or contracting to do the whole or any part of the Work contemplated by the Contract shall be permitted or required to work more than eight (8) hours in any one (1) calendar day and more than five (5) days in any one week, except in the extraordinary emergencies set forth in the Labor Law;

2. the wages paid for a legal day's work shall be not less than the prevailing rate of wages as defined by law;

3. the minimum hourly rate of wage to be paid and supplement provided shall be not less than that stated in the Contract and as shall be designated by the Industrial Commissioner of the State of New York; and

4. the Contractor and every Subcontractor shall post in a prominent and accessible place on the Site, a legible statement of all minimum wage rates and supplements to be paid or provided for the various classes of laborers and mechanics to be engaged in the Work and all deductions, if any,
required by law to be made from unpaid wages actually earned by the laborers and mechanics so engaged.

C. The minimum wage rates, if any, herein specified for apprentices shall apply only to persons working with the tools of the trade which such persons are learning under the direct supervision of journeymen mechanics. Except as otherwise required by law, the number of apprentices in each trade or occupation employed by the Contractor or any Subcontractor shall not exceed the number permitted by the applicable standards of the New York State Department of Labor, or, in the absence of such standards, the number permitted under the usual practice prevailing between the unions and the employers' association of the respective trades or occupations.

D. All employees of the Contractor and each Subcontractor shall be paid in accordance with the provisions of the Labor Law. Certified payroll copies shall be provided to the Owner as specified in these General Conditions and otherwise upon request.

E. The Contractor agrees that, in case of underpayment of wages to any worker engaged in the Work by the Contractor or any Subcontractor, the Owner shall withhold from the Contractor out of payments due an amount sufficient to pay such worker the difference between the wages required to be paid under the Contract and the wages actually paid such worker for the total number of hours worked, and that the Owner may disburse such amount so withheld by the Owner for and on account of the Contractor to the employee to whom such amount is due. The Contractor further agrees that the amount to be withheld pursuant to this paragraph may be in addition to the percentages to be retained by the Owner pursuant to other provisions of the Contract.

F. Pursuant to subdivision 3 of section 220 and section 220-d of the Labor Law the Contract shall be forfeited and no sum paid for any Work done thereunder upon a Contractor's or Subcontractor's second conviction for willfully paying or providing less than:

1. the stipulated wage scale or supplement as established by the fiscal officer, or
2. less than the stipulated minimum hourly wage scale as designated by the Industrial Commissioner.

G. Pursuant Labor Law, Section 220-e, the Contractor specifically agrees:

1. That in the hiring of employees for the performance of Work under the Contract or any subcontract hereunder, or for the manufacture, sale or distribution of materials, equipment or supplies hereunder, but limited to operation performed within the territorial limits of the State of New York, no Contractor, Subcontractor, nor any person acting on behalf of such Contractor or Subcontractor, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the Work to which the employment relates;
2. That no Contractor, Subcontractor, nor any person on behalf of such Contractor or Subcontractor shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under the Contract on account of race, creed, color, disability, sex or national origin;

3. That there may be deducted from the amount payable to the Contractor, by the Owner under the Contract, a penalty of fifty dollars ($50.00) for each person for each calendar day during which such person was discriminated against or intimidated in violation of the terms of the Contract; and

4. That the Contract may be canceled or terminated by the Owner and all moneys due or to become due hereunder may be forfeited for a second or any subsequent violation of the terms or conditions of this section of the Contract, or when one final determination involves the falsification of payroll records or the kickback of wages and/or supplements.

H. The Contractor specifically agrees:

1. That the Contractor shall certify its payrolls and keep these certified records on site and available, and provide copies to the Owner upon request.

2. That the Contractor shall provide each worker with a written notice informing the worker of the prevailing wage requirements for the job. The notice shall contain a simple statement or declaration for the worker's
SECTION 20.12 - NONDISCRIMINATION

During the performance of the Work, the Contractor agrees as follows:

A. The Contractor will not discriminate against any employee or applicant for employment because of race, religion/creed, color, sex, sexual orientation, gender, gender identity/expression, national origin, age, disability, marital status, or any other protected category.

B. If directed to do so by the Commissioner of Human Rights, the Contractor will send to each labor union or representative of workers with which the Contractor has or is bound by a collective bargaining or other agreement or understanding, a notice, to be provided by the State Commissioner of Human Rights, advising such labor union or representative of the Contractor's agreement under clauses A through G (hereinafter called "non-discrimination clauses"). If the Contractor was directed to do so by the Owner as part of the bid or negotiation of this Contract, the Contractor shall request such labor union or representative to furnish a written statement that such labor union or representative will not discriminate because of race, creed, color, sex, national origin, age, disability or marital status, and that such labor union or representative will cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these nondiscrimination clauses and that it consents and agrees that recruitment, employment and the terms and conditions of employment under this Contract shall be in accordance with the purposes and provisions of these nondiscrimination clauses. If such labor union or representative fails or refuses to comply with such a request that it furnish such a statement, the Contractor shall promptly notify the State Commissioner of Human Rights of such failure or refusal.

C. If directed to do so by the Commissioner of Human Rights, the Contractor shall post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Commissioner of Human Rights setting forth the substance of the provisions of clauses A and B and such provisions of the State's laws against discrimination as the State Commissioner of Human Rights shall determine.

D. The Contractor shall state, in all solicitations or advertisement for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, sex, national origin, age, disability or marital status.

E. The Contractor shall comply with the provisions of Section 290-299 of the Executive Law and with the Civil Rights Law, will furnish all information and reports deemed necessary by the State Commissioner of Human Rights under these nondiscriminatory clauses and such sections of the Executive Law, and will permit access to the Contractor's books, records and accounts by the State Commissioner for the purposes of investigation to ascertain compliance with these nondiscrimination clauses and such sections of the Executive Law and Civil Rights Law.
F. This Contract may be forthwith canceled, terminated or suspended, in whole or in part, by the Owner upon the basis of a finding made by the State Commissioner of Human Rights that the Contractor has not complied with these nondiscrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the State, until the Contractor satisfies the State Commissioner of Human Rights that the Contractor has established and is carrying out a program in conformity with the provisions of these nondiscrimination clauses. Such finding shall be made by the State Commissioner of Human Rights after conciliation efforts by the Commissioner have failed to achieve compliance with these nondiscrimination clauses and after a verified complaint has been filed with the Commissioner, notice thereof has been given to the Contractor and an opportunity has been afforded the Contractor to be heard publicly in accordance with the Executive Law. Such sanctions may be imposed and remedies invoked independently of or in addition to sanctions and remedies otherwise provided by law.

G. The Contractor shall include the provisions of clauses A through F above in every subcontractor purchase order in such a manner that such provisions will be binding upon each Subcontractor or vendor as to operation to be performed within the State of New York. The Contractor shall take such action in enforcing such provisions of such Subcontract or purchase order as the State Commissioner of Human Rights or the Owner may direct, including sanctions or remedies for noncompliance. If the Contractor becomes involved in or is threatened with litigation with a Subcontractor or vendor as a result of such direction by the State Commissioner of Human Rights or the Owner, the Contractor shall promptly so notify the Attorney General, requesting the Attorney General to intervene and to protect the interests of the State of New York.

SECTION 20.13 – LIMITATION ON ACTIONS

No action or proceeding shall lie in favor of or shall be maintained by the Contractor against the Owner unless such action shall be commenced within six (6) months after receipt by the Owner of the Contractor’s final requisition or, if the Contract is terminated by the Owner, unless such action is commenced within six (6) months after the date of such termination.
SECTION 20.14 – WAIVER OF REMEDIES

Inasmuch as the Contractor can be compensated adequately by money damages for any breach of the Contract which may be committed by the Owner, the Contractor agrees that no default, act or omission of the Owner shall constitute a material breach of Contract entitling the Contractor to cancel or rescind the same or to suspend or abandon performance thereof; and the Contractor hereby waives any and all rights and remedies to which the Contractor might otherwise be or become entitled to because of any wrongful act or omission of the Owner saving only the Contractor's right to money damages.

SECTION 20.15 – WAIVER OF CERTAIN CAUSES OF ACTION

No action or proceeding shall lie or shall be maintained by the Contractor, nor anyone claiming under or through the Contractor, against the Owner upon any claim arising out of or based upon the Contract, relating to the giving of notices or information.

SECTION 20.16 – CONTRACTOR RELATIONSHIP

The relationship created by the Contract between the Owner and the Contractor is one of an independent contractor and it is no way to be construed as creating an agency relationship between the Owner and the Contractor nor is it to be construed as, in any way or under any circumstances, creating or appointing the Contractor as an agent of the Owner for any purpose whatsoever.

SECTION 20.17 – FAILURE TO COMPLY WITH THIS ARTICLE

The Contract shall be void and of no effect unless the Contractor complies with the provisions of this Article 20.

SECTION 20.18 – YEAR 2000 WARRANTY

SECTION DELETED
SECTION 20.19 – FALSE RECORDS/KICKBACKS

The Contractor agrees that this Contract may be canceled or terminated for cause by the Owner and all moneys due or to become due hereunder may be forfeited upon the Owner’s determination that the Contractor has submitted false records to the Owner and/or that the Contractor has participated in the kickback of wages. Said determination by the Owner must first allow the Contractor an opportunity to show why its Contract should not be canceled or terminated for cause for said actions.

ARTICLE 21- COOPERATION WITH INVESTIGATIONS

The Contractor agrees to cooperate fully and faithfully with any investigation, audit or inquiry conducted by the Owner or any other duly authorized representative of the Owner (“Representative”).

The Contractor shall grant the Owner or the Representative the right to examine all books, records, files, accounts, computer records, documents and correspondence, including electronically-stored information, in the possession or control of the Contractor, its subsidiaries and affiliated companies and any other company directly or indirectly controlled by the Contractor, relating to the Contract. These shall include, but not be limited to: Subcontracts; bid files; payroll and personnel records; cancelled checks; correspondence; memoranda; reports; audits; vendor qualification records; original estimate files; change order/amendment estimate files; detailed worksheets; Subcontractor, consultant and supplier proposals for both successful and unsuccessful bids; back-charge logs; any records detailing cash, trade, or volume discounts earned; insurance proceeds, rebates or dividends received; payroll and personnel records; tax returns, and the supporting documentation for the aforesaid books and records.

At the Owner’s or the Representative’s request, said materials shall be provided in a computer readable format, where available. At the request of the Owner or the Representative, the Contractor shall execute such documents, if any, as are necessary to give the Owner or the Representative access to Contract-related books, documents or records which are, in whole or part, under control of the Contractor but not currently in the Contractor’s physical possession. The Contractor shall not enter into any agreement with a Subcontractor, consultant or supplier, in connection with the Contract, that does not contain a right to audit clause in favor of the Owner. The Contractor shall assist the Owner or the Representative in obtaining access to past and present Subcontractor, consultant and supplier amendment/change order files (including detailed documentation covering negotiated settlements), accounts, computer records, documents, correspondence, and any other books and records in the possession of Subcontractors, consultants and suppliers pertaining to the Contract, and, if appropriate, enforce the right-to-audit provisions of such agreements.

The Contractor shall assist the Owner or the Representative in obtaining access to, interviews with, and information from all former and current persons employed and/or retained by the Contractor, for purposes of the Contract.

The Contractor shall require each Subcontractor to include in all agreements that the
Subcontractor may hereinafter enter into with any and all Subcontractors, consultants and suppliers, in connection with the Contract, a right-to-audit clause in favor of the Owner conferring rights and powers of the type outlined in this section. The Contractor shall not enter into any Subcontract with a Subcontractor in connection with the Contract that does not contain such a provision.

The Contractor shall not make any payments to a Subcontractor, consultant or supplier from whom the Contractor has failed to obtain and supply to the Owner or the Representative complete, accurate and truthful information in compliance with a request from the Owner or the Representative to the Contractor.

Any violation of the provisions of this Article shall justify termination of this Contract and may result in the Owner’s rejection of the Contractor’s bids or proposals for future contracts.
SECTION VI.
LABOR & MATERIAL PAYMENT BOND
LABOR & MATERIAL PAYMENT BOND

KNOW ALL BY THESE PRESENTS:

That___________________________________________
(Here insert the name and address or legal title of the Contractor)
_____________________________________________

as Principal, hereinafter called Principal, and ____________________________
_____________________________________________

(Here insert the legal title of Surety)
_____________________________________________

(Address)

as Surety, hereinafter called Surety, are held and firmly bound unto The Fashion Institute of Technology, as applicable, as Obligee, hereinafter called Owner, for the use and benefit of the claimants as hereinbelow defined, in the amount of ________________

___________________________________________and /100 Dollars ($___________)

WHEREAS, Principal has by written agreement dated ________________________
entered into a Contract with Owner for ________________________________

_____________________________________________
in accordance with the Contract Documents and any changes thereto, which are made a part hereof, and are hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise such obligation shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct Contract with the Principal or with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full
before the expiration of a period of ninety (90) days after the date on which the
last of such claimant's work or labor was done or performed, or materials were
furnished by such claimant, may sue on this bond for the use of such claimant,
prosecute the suit to final judgment for such sum or sums as may be justly due
claimant, and have execution thereon. The Owner shall not be liable for the
payment of any costs or expenses of any such suit.

3. No suit or action shall be commenced hereunder by any claimant:

a. Unless claimant, other than one having a direct contract with the
Principal, shall have given written notice to any two (2) of the following:
1) the Principal, 2) the Owner, or 3) the Surety above named, within
ninety (90) days after such claimant did or performed the last of the
work or labor, or furnished the last of the materials for which said claim
is made, stating with substantial accuracy the amount claimed and the
name of the party to whom the materials were furnished, or for whom
the work or labor was done or performed. Such notice shall be served
by mailing the same by registered mail or certified mail, postage
prepaid, in an envelope addressed to the Principal, Owner, or Surety, at
any place where an office is regularly maintained by said Principal,
Owner, or Surety for the transaction of business, or served in any
manner in which legal process may be served in the State in which the
aforesaid project is located, save that such service need not be made by
a public officer.

b. After the expiration of one (1) year following the date on which
Principal ceased work of said Contract, however, if any limitation
embodied in this bond is prohibited by any law controlling the
construction hereof such limitation shall be deemed to be amended so
as to be equal to the minimum period of limitation permitted by such
law.

c. Other than in a State court of competent jurisdiction in and for the
county or other political subdivision of the State in which the project, or
any part thereof, is situated, or in the United States District Court for the
district in which the project, or any part thereof, is situated, and not
elsewhere.

4. The penal sum of this Bond is in addition to any other Bond furnished by the
Contractor and in no way shall be impaired or affected by any other Bond.

5. The amount of this Bond shall be reduced by and to the extent of any payment
or payments made in good faith hereunder, inclusive of the payment by Surety
of Mechanics' Liens which may be filed of record against said improvement,
whether or not claim for the amount of such lien be presented under and against
this Bond.
Signed this_______day of_____________________20__. 

IN THE PRESENCE OF:

______________________________  ________________________________
(Principal)  (Surety)

______________________________  ________________________________
(Signature)  (Signature)

______________________________  ________________________________
(Print Name and Title)  (Print Name and Title)

______________________________  ________________________________
(Address)  (Address)

______________________________  ________________________________
(City, State, Zip)  (City, State, Zip)

Telephone (__)__________________

Fax No. _________________________

ACKNOWLEDGEMENT OF PRINCIPAL, IF A CORPORATION

STATE OF______________) ss:

COUNTY OF______________)  

On the_____day of_____________________in the year 20__, before me personally came ___________________________to me known, who, being by me duly sworn, did depose and say that (s)he resides at__________________________, that (s)he is the _____________ of______________________________, the corporation described in and which executed the above instrument; and that (s)he signed her/his name thereto by order of the Board of Directors of said corporation.

______________________________
Notary Public
ACKNOWLEDGEMENT OF PRINCIPAL, IF A PARTNERSHIP

STATE OF ________________) ss:
COUNTY OF ________________

On the _____ day of _________________ in the year 20__, before me personally came ____________________________, to me known and known to me to be a member of the firm ________________, described in and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he executed the same for and in behalf of said firm for the uses and purpose mentioned therein.

Notary Public

ACKNOWLEDGEMENT OF PRINCIPAL, IF AN INDIVIDUAL

STATE OF ________________) ss:
COUNTY OF ________________

On the _____ day of _________________ in the year 20__, before me personally came ____________________________, to me known and known to me to be the person described in and who executed the foregoing instrument and (s)he duly acknowledged that (s)he executed the same.

Notary Public

ACKNOWLEDGEMENT OF SURETY

STATE OF NEW YORK )
COUNTY OF ________________) ss:

On the _____ day of _________________ in the year 20__, before me personally came ____________________________, to me known, who, being by me duly sworn, did depose and say that (s)he resides at ____________________________, that (s)he is the ____________________________, of the corporation described in and which executed the above instrument; and that (s)he signed her/his name thereto by order of the Board of Directors of said corporation.

Notary Public
SECTION VII.
PERFORMANCE BOND
PERFORMANCE BOND

KNOW ALL BY THESE PRESENTS:

That ____________________________________________

(Here insert the name and address or legal title of the Contractor)

_________________________________________________________________

as Principal, hereinafter called Principal, and _____________________________

_________________________________________________________________

(Here insert the legal title of Surety)

_________________________________________________________________

(Address)

as Surety, hereinafter called Surety, are held and firmly bound unto The Fashion Institute of Technology, as applicable, as Obligee, hereinafter called Owner, in the amount of __________

_________________________________________________________________

and ___/100 Dollars ($__________) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, CONTRACTOR has by written agreement dated ______________________

entered into a Contract with Owner for ________________________________

_________________________

in accordance with the Contract Documents and any changes thereto, which are made a part hereof, and are hereinafter referred to as the Contract.

1. If the Contractor performs the Contract, the Surety and the Contractor shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 2.1.

2. If there is no Owner default, the Surety's obligation under this Bond shall arise after:

2.1 The Owner has notified the Contractor, the Surety at its address described in Paragraph 8. below that the Owner is considering declaring a Contractor in default.

2.2 The Owner has declared a Contractor in default and formally terminated the Contractor's right to complete the Contract.
2.3 The Owner has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Contract or to a Contractor selected to perform the Contract in accordance with the terms of the Contract with the Owner.

3. When the Owner has satisfied the conditions of Paragraph 2 herein., the Surety shall, at the Owner’s option, promptly and at the Surety's expense take on the following actions:

3.1 Arrange for the Contractor, with consent of the Owner, to perform and complete the Contract; or

3.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or

3.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the Owner and the Contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified Surety equivalent to the bonds issued on the Contract, and pay to the Owner the amount of damages as described in Paragraph 5. in excess of the Balance of the Contract Price incurred by the Owner resulting from the Contractor default.

4. If the Surety does not proceed with reasonable promptness, the Surety shall be deemed to be in default on this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner.

5. After the Owner has terminated the Contractor's right to complete the Contract, and if the Surety elects to act under Subparagraph 3.1, 3.2, or 3.3 above, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Contract. To the limit of the amount of this Bond, but subject to commitment by the Owner of the Balance of the Contract Price to mitigation of costs and damages on the Contract, the Surety is obligated without duplication for:

5.1 The responsibilities of the Contractor for correction of defective work and completion of the Contract;

5.2 Additional legal, design, professional, and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 3.; and

5.3 Liquidated Damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the Contractor.

6. The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators or successors.

7. The Surety hereby waives notice of any change, including changes of time, to the Contract
or to related subcontracts, purchase orders, and other obligations.

8. Notice of the Surety and the Contractor shall be mailed or delivered to the address shown on the signature page. Notice to the Owner shall be mailed or delivered to the address shown in the preamble.

9. Definitions:

9.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Contract.

9.2 Contract: The agreement between the Owner and the Contractor identified on the signature page, including all Contract Documents and changes thereto.

9.3 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.

9.4 Owner Default: Failure of the Owner, which has neither been remedied nor waived, to pay the Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

The penal sum of this Bond is in addition to any other Bond furnished by the Contractor and in no way shall be impaired or affected by any other Bond.

Any suit under this Bond must be instituted before the expiration of two (2) years from the date on which Final Payment is made under this Contract.

Signed this__________day of_________________________20__. 

IN THE PRESENCE OF:

_________________________________________  ______________________________________
(Principal)  (Surety)

_________________________________________  ______________________________________
(Signature)  (Signature)

_________________________________________  ______________________________________
(Print Name and Title)  (Print Name and Title)
ACKNOWLEDGEMENT OF PRINCIPAL, IF A CORPORATION

STATE OF________________________ ss:

COUNTY OF____________________

On the______ day of__________________ in the year 20__, before me personally came

________________________________ to me known, who, being by me duly sworn, did depose and say

that (s)he resides at__________________________, that (s)he is the____________________ of

_____________________________________, the corporation described in and which executed
the above instrument; and that (s)he signed her/his name thereto by order of the Board of Directors
of said corporation.

____________________________________

Notary Public

ACKNOWLEDGEMENT OF PRINCIPAL, IF A PARTNERSHIP

STATE OF______________ ss:

COUNTY OF______________

On the______ day of__________________ in the year 20__, before me personally came

________________________________, to me known and known to me to be a member of the

firm________________________, described in and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he executed the same for and in
behalf of said firm for the uses and purpose mentioned therein.

____________________________________

Notary Public
ACKNOWLEDGEMENT OF PRINCIPAL, IF AN INDIVIDUAL

STATE OF_____________ ) ss:
COUNTY OF_____________ )

On the ______ day of __________________ in the year 20__, before me personally came ____________________________, to me known and known to me to be the person described in and who executed the foregoing instrument and (s)he duly acknowledged that (s)he executed the same.

__________________________________________
Notary Public

ACKNOWLEDGEMENT OF SURETY

STATE OF NEW YORK )
COUNTY OF__________ ) ss:

On the _____ day of____________________ in the year 20__, before me personally came ____________________________, to me known, who, being by me duly sworn, did depose and say that (s)he resides at ____________________________, that (s)he is the__________________________ of ____________________________, the corporation described in and which executed the above instrument; and that (s)he signed her/his name thereto by order of the Board of Directors of said corporation.

__________________________________________
Notary Public
SECTION VIII.  
FORM OF BID
FORM OF BID

(Contract for Total of All Materials and Labor)

The Fashion Institute of Technology
(Owner)

For:

The Fashion Institute of Technology is requesting Bids for the Work described in Section II. Bid Terms and Conditions, II. Summary of Scope of Work and as shown and described on the drawings and specifications provided with this document at the Fashion Institute of Technology’s “ __________________________” located on 27th street campus. To be known from this point forward as the “ __________________________ ”

Pursuant to and in compliance with the Owner's advertisement for bids dated_______, 201___ and the Contract Documents relating hereto, the undersigned hereby offers to provide all plant, labor, materials, supplies, equipment, and other facilities and things necessary or proper for or incidental to, the General Contracting and Electrical Work as required by, and in strict accordance with, the applicable provisions of the Contract Documents, as defined in the General Conditions, including changes thereto, and all of the addenda issued by the Owner and sent to the undersigned by facsimile transmission or delivered to the bidder prior to the date of opening of bids, whether received by the undersigned or not, for the total sum of

__________________________________________ Dollars

($________________________).

The Bid may be withdrawn at any time prior to the scheduled time for the opening of bids or any authorized postponement thereof.

If written notice of the acceptance of the Bid is sent to the undersigned by certified or registered mail or by facsimile transmission or delivered to the undersigned within ninety (90) days after the date of opening of the bids, or any time thereafter before the Bid is withdrawn, the undersigned shall, within eight (8) days after the date of such mailing, facsimile transmission, or delivery of such notice, execute and deliver a Contract in the Form of Contract included in the Contract Documents.

The undersigned hereby designates as the undersigned's office to which such notice of acceptance may be mailed, transmitted, or delivered as __________________________________________

__________________________________________
SECTION IX.
NON-COLLUSIVE BIDDING CERTIFICATION
Non-collusive Bidding Certification

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and, in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief:

1. The prices in the bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

2. Unless otherwise required by law, the prices which have been quoted in the bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and

3. No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition.

Firm Name ________________________________________________

Address ___________________________________________________

__________________________________________________________

By________________________________________________________

(Signature and Title)

Dated: __________________________

Telephone (  ) ___________ Fax No. (  ) ___________

______________________________

(Taxpayer ID or Social Security Number)

ACKNOWLEDGEMENT OF BIDDER, IF A CORPORATION

STATE OF NEW YORK )
COUNTY OF ________________ ) ss:

On the____ day of _________, 20_, before me personally came ______________________
to me known, who, being by me duly sworn, did depose and say that (s)he resides at _________
__________________________, that (s)he is the________________________ of _________________
__________________________, the corporation described in and which executed the above instrument;
and that (s)he signed her/his name thereto by order of the Board of Directors of said corporation.

______________________________
Notary Public
ACKNOWLEDGEMENT OF BIDDER, IF A PARTNERSHIP

STATE OF NEW YORK )
COUNTY OF____________ ) ss:

On the____day of__________, 20__, before me personally came __________________________
to me known and known to me to be a member of the firm __________________________
________________________, described in and who executed the foregoing instrument, and (s)he duly
acknowledged to me that (s)he executed the same for and in behalf of said firm for the uses and
purposes mentioned therein.

________________________  
Notary Public

ACKNOWLEDGEMENT OF BIDDER, IF AN INDIVIDUAL

STATE OF NEW YORK )
COUNTY OF____________ ) ss:

On the____day of__________, 20__, before me personally came __________________________
to me known and known to me to be the person described in and who executed the foregoing
instrument, and (s)he duly acknowledged that (s)he executed the same.

________________________  
Notary Public
SECTION X:

SUBSTITUTION FORM REQUEST
FASHION INSTITUTE OF TECHNOLOGY

SUBSTITUTION REQUEST FORM

1.1 CONDITIONS OF SUBSTITUTIONS

A. Substitution indicated on this Form is a proposed substitute to requirements indicated in the Contract Documents. Substitution listed has not been included in an Addendum. Submit one Form for each proposed substitution.
B. For each proposed Substitution, state difference in price or "No Change" where Substitution is offered.
C. Attach complete technical data, specifications, and description of substitutions.
D. Architect reserves the right to accept or reject any or all proposed substitutions.

1.2 SUBSTITUTION REQUEST

The following information is hereby submitted for a substitution to the specified item.

Specification Section and Title: ________________________________

Paragraph _____ Page _____ Specified Item ________________________________

Proposed Substitution: ____________________________________________

Manufacturer: __________ Address: ___________ Phone: _____________

Trade Name: _____________________________ Model No: ______________

Price Difference: _________________ or No Change _______________

The Undersigned certifies:
A. Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
B. Same warranty will be furnished for proposed substitution as for specified product.
C. Same maintenance service and source of replacement parts, as applicable is available.
D. Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
E. Proposed substitution does not affect dimensions and functional clearances.
F. Payment will be made for changes to the building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: ________________________________

Signed by: ________________________________

Firm: ________________________________

Address: ________________________________

Telephone: ___________________________ FAX: ___________________________

ARCHITECT’S REVIEW AND ACTION

☐ Substitution Approved – Make submittals in accordance with General Requirements
☐ Substitution Approved As Noted – Make submittals in accordance with General Requirements.
☐ Substitution Rejected – Use specified materials.
☐ Substitution Request Received Too Late. Use specified materials.

Signed by: ________________________________

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests
☐ Reports ☐ Other __________________________

SUBSTITUTION REQUEST FORM
SECTION XI.
CONTRACT

TO BE SIGNED ONLY UPON AWARD
CONTRACT

This Agreement made as of the____day of__________20____, by and between the ________________________________, hereinafter referred to as the "OWNER" and ________________________________, hereinafter referred to as the “Contractor”, for Work at ________________________________

WITNESSETH: That the OWNERS and the Contractor for the consideration named agree as follows:

1. The Contractor shall Provide and shall perform all Work of every kind or nature whatsoever required and all other things necessary to complete in a proper and workmanlike manner the ________________________________ in strict accordance with the Contract Documents as defined in the General Conditions (and of which a listing of specifications and drawings are attached hereto) and in strict accordance with such changes as are ordered and approved pursuant to the Contract, and shall perform all other obligations imposed on such Contractor by the Contract.

2. The Contractor agrees to perform all Work and labor required, necessary, proper for, or incidental to the Work, and to Furnish all supplies and materials required, necessary, proper for, or incidental to the Work for the total sum of $_________ and 00/100 Dollars ($_________ ______ 00), which sum shall be deemed to be in full consideration for the performance by the Contractor of all the duties and obligations of such Contractor under the Contract.

3. The Contractor shall commence Work on the Contract at a time to be specified in a written notice to proceed issued by the OWNER and complete the project no later than___________________________.

IN WITNESS WHEREOF, the parties hereto have executed this Contract the day and year first above written.

Fashion Institute of Technology

______________________________________________
(Name of Contractor)

______________________________________________
Sherry Brabham, VP of Finance

By ______________________________
(Signature)

______________________________________________
(Print Name and Title)
ACKNOWLEDGEMENT OF CONTRACTOR, IF A CORPORATION

STATE OF _______________ )
COUNTY OF _______________ ) ss:

On the _______ day of ___________ in the year 20___, before me personally came ________________ to me known, who, being by me duly sworn, did depose and say that (s)he resides at ________________________________, that (s)he is the ____________________________, the corporation described in and which executed the above instrument; and that (s)he signed her/his name thereto by order of the Board of Directors of said corporation.

__________________________
Notary Public

ACKNOWLEDGEMENT OF CONTRACTOR, IF A PARTNERSHIP

STATE OF _______________ )
COUNTY OF _______________ ) ss:

On the _______ day of ___________ in the year 20___, before me personally came ____________________________ to me known and known to me to be a member of the firm ________________________________, described in and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he executed the same for and in behalf of said firm for the uses and purpose mentioned therein.

__________________________
Notary Public

ACKNOWLEDGEMENT OF CONTRACTOR, IF AN INDIVIDUAL

STATE OF _______________ )
COUNTY OF _______________ ) ss:

On the _______ day of ___________ in the year 20___, before me personally came ________________________________, to me known and known to me to be the person described in and who executed the foregoing instrument and (s)he duly acknowledged that (s)he executed the same.

__________________________
Notary Public
SECTION XII.
AFFIRMATIVE ACTION FORM
MONTHLY CONTRACTOR’S COMPLIANCE REPORT FORM AAP 7.0

INSTRUCTION SHEET

ALL PAYMENT REQUISITION, CONTRACTOR AND PROJECT INFORMATION ON THE TOP PORTION OF THE FORM MUST BE COMPLETELY FILLED OUT. PLEASE NOTE:

False statements, information or data submitted on or with application for payment may result in one or more of the following actions: Termination of Contract for cause; Disapproval of future bids, or contracts or subcontracts; Withholding of final payments on the contract; and Civil and/or criminal prosecution.

PART B- PAYMENTS TO SUBCONTRACTORS AND SUPPLIERS

1) ALL FIRMS THAT YOU ARE UTILIZING ON THE JOB MUST BE LISTED EACH TIME REGARDLESS IF THEY ARE SCHEDULED TO RECEIVE PAYMENTS OUT OF THE PROCEEDS OF THE REQUISITION FOR PAYMENT.

2) All relevant information for each subcontractor and/or supplier must be filled in. This includes firm’s complete name, address, phone number and Federal ID #. In addition, if the firm is a NYS CERTIFIED MBE/WBE, please indicate as such in the appropriate box.

AS A REMINDER, ONLY THOSE FIRMS THAT HAVE NYS CERTIFICATION BY THE EMPIRE STATE DEVELOPMENT CORPORATION CAN BE COUNTED TOWARDS THE MBE/WBE GOAL ACHIEVEMENT FOR THE PROJECT.

3) The percentage of the job or purchases completed must be filled in and in addition, please indicate the number of change orders issued on any subcontract agreement or the number of purchase orders issued to date if purchasing supplies.

4) A description of the work being performed by a subcontractor or the type of supplies being purchased must be filled in.

DEFINITIONS

INTENDED PAYMENT: This is the amount of money that you intend to pay to each firm with the money that you will receive from the accompanying requisition. This is not the amount that you intend to pay over the life of the contract.

AMOUNT PAID TO DATE: This is the amount of money that has ACTUALLY been paid to date from previous requisitions submitted. It does not include the amount that you intend to pay from this requisition. THIS AMOUNT WILL BE VERIFIED BY OUR OFFICE PRIOR TO CLOSE OUT OF THE JOB BY THE RECEIPT OF COPIES OF CANCELED CHECKS OR PAID INVOICES.

CURRENT VALUE OF SUBCONTRACT: This is the total value to date of any subcontract agreement that has been issued to the firm by your company. It should be inclusive of any change orders issued to the original contract. NOTE: THIS LINE IS FOR SUBCONTRACTOR INFORMATION ONLY. IF THE FIRM LISTED IS A SUPPLIER THAT YOU ARE PURCHASING SUPPLIES OR MATERIAL FROM, LEAVE BLANK AND GO TO THE NEXT LINE.

TOTAL VALUE OF ALL PURCHASE ORDERS: This is the total amount of all purchase orders that will be issued to the firm for the entire job. The number of purchase orders issued to date should be reflected in the area indicated to the left. NOTE: THIS LINE IS FOR SUPPLIER INFORMATION ONLY. IF THE FIRM IS A SUBCONTRACTOR, LEAVE THIS AREA BLANK. A SUBCONTRACTOR AGREEMENT SHOULD BE ISSUED WHICH WOULD BE REFLECTED ON THE PREVIOUS LINE.

The current form that you should be utilizing is form: AAP 7.0 Revised 1/9/08. This form must be included with each payment requisition submitted or the payment will not be processed.

If the form is not filled out according to the above instructions, your next payment requisition may be held until corrections are made. In addition, each report submitted must have an original signature and date.
MONTHLY CONTRACTOR’S COMPLIANCE REPORT

Conducted by the Department of the State of New York, Division of Construction Services

Page 1 of

Payment Requisition Date
Payment Requisition Amount
FIT Contract Number

CONTRACTOR INFORMATION

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PROJECT INFORMATION

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<th>City and Zip Code</th>
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Part B – Payments to Subcontractors and Suppliers: Provide name, address and telephone number of ALL subcontractors to which you have awarded a subcontract or suppliers to which you have issued a purchase order. Place X in check box to indicate whether they are a New York State certified MBE or WBE or Other. In addition, for each firm listed below you must also include: the firm’s federal identification number; amount of intended payment to be made from proceeds of the accompanying requisition; percent complete, amount paid to date; the number of change orders or purchase orders; current value of subcontract (including change orders) or cumulative value of purchase orders; and a brief description of the work or service. All subcontractors or suppliers with whom you have an agreement should be listed below, even if they are not scheduled to receive a payment out of the proceeds of the attached requisition for payment. For further details, see Instruction Sheet

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Work Description

False statements, information or data submitted on or with application for payment may result in one or more of the following actions: Termination of Contract for cause; Disapproval of future bids, or contracts or subcontracts; Withholding of final payments on the contract; and Civil and/or criminal prosecution.

Name of Principal or Officer (Type or Print)

Title of Principal or Officer (Type or Print)

Signature of Principal or Officer

Date

Form AAP 7.0 Revised 1/9108
SECTION XIII.
CHANGE ORDER FORM
CHANGE ORDER

TO:
Contractor: __________________________
Street: __________________________
City, State, Zip: __________________________
Phone No. __________________________

Contract No. __________________________
Contract Date: __________________________
Original Contract Amount: $ _________________
Total Approved Change Orders: __________________________
Current Contract Amount: $ _________________

You are hereby directed to perform all labor and to provide all materials necessary to carry out the Work described below:

Full consideration for this change order shall be on INCREASE/DECREASE of the original contract amount by:
______________________________ Dollars.

Labor = ________________
Materials = ________________

INCREASE/DECREASE of the original schedule by days. In accepting and executing this change order, the Contractor, its heirs, executors, administrators, successors, and assigns hereby release and forever discharge the Owner, its successors, and assigns from any and all actions, causes of action, claims and demands whatsoever in law or in equity which the Contractor ever had, now has, or may have against the Owner in any way arising out of this change.

Recommended by: CONSTRUCTION MANAGER OR ARCHITECT
Name: __________________________

By: __________________________ Date: ______

Accepted by: CONTRACTOR
Name: __________________________

By: __________________________ Date: ______

Approved by: OWNER
Name: __________________________

By: __________________________ Date: ______
SECTION XIV.
CONTRACTOR'S
TRADE PAYMENT BREAKDOWN
# TRADE PAYMENT BREAKDOWN

**PROJECT:** ____________________________  
**CONTRACTOR:** ____________________________  
**CONTRACT #: C**

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EXHIBIT A: SAFETY EHS PLAN
Before commencing work on site at FIT, Contractor shall prepare a work-specific EHS Plan and submit the EHS Plan to both the Facilities Management and EHS Departments for review and approval. Such approval shall be given in a timely manner.

I) A work-specific EHS Plan is required in the following instances:

   A) When proposed work will:
      1) use regulated hazardous chemicals;
      2) have the potential to generate fumes, vapors or dusts;
      3) involve cutting torches or other spark-generating equipment (“hot” work);
      4) generate any waste;
      5) involve high-energy systems or
      6) require any type of air monitoring.

   B) When work involves the removal of less than 25 liner feet, or 10 square feet, of asbestos-containing material (that is greater than 1% asbestos). For work involving more than these amounts of asbestos, Contractor must consult with the EHS Department for additional guidelines.

   C) When work involves the use of tools and equipment in areas where FIT employees or students are present.

   D) When work involves construction, other than minor repairs or alterations to on-campus facilities.

   E) When work involves dangerous environments, such as confined spaces, hazardous energy, use scaffolds greater than 10 feet high, or vehicle-mounted articulated booms.

II) Use the outline below to develop the work-specific EHS Plan. Contractor shall amend the work-specific EHS Plan as needed to accommodate work on-campus as it proceeds.

III) GENERAL INFORMATION – PROJECT PLANNING
contractors, if any, Project Name, FIT Bid Number and Contractor’s safety-related performance measurements on Table 1.

B) Describe the scope of work and list a breakdown of its specific tasks.

C) Provide a project schedule that, at a minimum, shows the anticipated start date of the work, the duration of each phase of the work, the anticipated date of completion of each phase, and the project completion date.

D) List name of Contractor’s on-site EHS Coordinator and the names of all OSHA-competent persons needed to carry out the scope of work on Table 2. The EHS Coordinator shall serve as the primary contact with FIT’s Director of EHS Compliance during all work.

IV) WORK-SPECIFIC HAZARD ANALYSIS/RISK ASSESSMENT

A) Describe each task associated with the work of the project.

B) List the potential hazards, if any, associated with each task.

C) Provide copies of Contractor’s EH&S program applicable to scope of work.

D) List the types of protective work practices or personal protective equipment (PPE) Contractor will employ to carry-out each task.

E) Describe the types of exposure assessments that are needed to address potential hazardous exposures related to the work of the project. These include:

1) Work practices and engineering controls Contractor will use to prevent exposure of Contractor’s employees to hazardous chemicals or hazardous energy;

2) Work practices and engineering controls Contractor will use to prevent exposure of FIT students and staff to any detectable chemical exposure;

3) Contractor’s use of respiratory protection and other protective equipment (PPE) and

4) Qualitative or quantitative monitoring protocols, personal and area monitoring equipment, and contaminant action levels.

F) Attach copies of certified documentation of “Hazard Assessment and Equipment Selection” required by 29 CFR 1910.132 (d)(2) that complies with 1910 Subpart I Appendix B for all tasks in the work-specific EHS Plan.

G) Attach a copy of Contractor’s written Hazard Communication Program that OSHA requires for the work-specific EHS Plan.

V) WORK-SPECIFIC ENVIRONMENTAL, HEALTH AND SAFETY ELEMENTS
A) To address health and safety issues, the work-specific EHS Plan shall:

1) Describe criteria for upgrading or downgrading personal protective equipment (PPE) or modifying work practices to control hazardous exposures during the work;

2) Describe criteria Contractor will use to set up exclusion zones, including physical barriers and decontamination zones, as needed to prevent spread of debris and restrict access of unauthorized persons to work areas;

3) List equipment Contractor will use for routine and emergency on-site communication;

4) Describe utility clearance and marking procedures to prevent damage to buried utilities, or to lines, piping, or cables located inside of walls and ceilings, if applicable;

5) Describe decontamination and cleaning procedures for Contractor’s employees and equipment to prevent the spread of debris. This includes procedures during work, at the end of each work day, and at the completion of the project before FIT’s final inspection of the work area;

6) Identify measures to manage dangerous environments, such as confined spaces, scaffold work greater than 10 feet, or articulated booms;

7) List “Hot Work” procedures involved in the work of the project. This may include, but not be limited to, work such as welding, burning, open flames, tar melting or other type of melting pots, grinding that throws sparks. (See Appendix 1 - “Daily Safety Management Work Permit”);

8) Identify the need for air monitoring or special testing to carry out the work. Include a listing of monitoring equipment or special tests and the Action Levels that Contractor will apply to project work;

9) Describe safety procedures for excavations more than four 4 feet deep and sloping or shoring procedures where excavations will exceed 5 feet deep;

10) Describe fire protection and explosive hazard review;

11) List the name and address of Contractor’s on-contract Confined Space rescue team;

12) Describe spill control procedures for chemical products Contractor will have on-campus during work. Include a listing of spill control or containment supplies that Contractor will have on-hand in case of a spill;

13) Describe the need for site coordination with FIT employees, other contractors on-site and other adjacent work groups. This includes identification of hazardous energy Lock Out and Tag Out
requirements to make to work area safe and

14) Provide a listing of other safety equipment that Contractor will have on site during the work of the project.

B) To address oil, chemical and waste management issues, the work-specific EHS Plan shall:

1) Provide estimates of the types and amounts of waste (both hazardous and non-hazardous) that Contractor anticipates the work will generate. As applicable, provide a copy of a waste analysis plan that lists the types of analysis required, the USEPA SW-846 method number and the method detection limits;

2) Provide facility name, USEPA ID number, and a contact name for each facility that will transport and dispose of each of the waste streams identified above. Provide this information for any facility that will dispose of residuals from the treatment of project waste, as applicable;

3) On a copy of a drawing that will be provided by FIT, identify location where Contractor proposes to accumulate waste during work, to set-up exclusion zones and to provide employee decontamination areas;

4) Provide a statement that describes the methods that Contractor will use to minimize the amount of waste generated from the work of the project;

5) Provide a tabular listing, along with copies of Safety Data Sheets (SDS), for any chemical products that Contractor intends to store or use on-site during the work. The listing shall include the product name, manufacturer’s name, type, amounts, intended storage location on FIT site, the specific use of the chemical and identification of any NYCDEP/USEPA regulated hazardous substances that Contractor intends to store or use on-site during the work. In all cases, Contractor must submit the listing before chemical products are delivered to the FIT campus;

6) On a copy of a drawing that will be provided by FIT, identify location where Contractor proposes to store chemical products on-site during work;

7) Identify the need, if any, to amend existing FIT emergency contingency planning documents. Such documents include, but are not limited to: Spill Prevention Control and Countermeasure Plan, Spill Prevention Report, Right-to-Know Survey and

8) List permits and Certificates of Fitness (NYCDEP, NYSDEC, USEPA, FDNY) needed to carry-out the scope of work and have copies on-site of permits and Certificates to carry-out project work.

VI) ON-SITE DOCUMENTATION

A) Contractor shall record initial and daily safety-related procedures on Table 3. These shall include:
1) Before start of the work, FIT’s Project Manager will conduct a FIT Hazard Communication briefing for Contractor’s employees;

2) Before start of the work, FIT’s Project Manager and Contractor’s on-site EHS Coordinator shall conduct a briefing for FIT employees in areas adjacent to work areas about proposed work;

3) Review of FIT Emergency Evacuation Procedures;

4) Listing of initial and ongoing project status meetings on-site with FIT Project Manager to address EHS concerns safety and health and

5) Scheduled and unscheduled employee safety briefings, toolbox talks.

B) Contractor shall provide a summary of the on-site EHS Coordinator’s EHS-related training and experience relevant to the work of the project.

C) Contractor’s employees shall sign-in daily with FIT Security in the A-Building Lobby.

D) For each work shift necessary to complete the project, Contractor’s on-site EHS Coordinator shall open and fill out the “Daily Safety Management Work Permit” (See Appendix 1) at the start of each work shift and close the Permit at the end of each work shift.

VII) EMERGENCY RESPONSE PLANNING

Contractor shall review the summary of the Emergency Response Contact Names listed on Table 4 and provide the information as follows:

A) On a site map that will be provided by FIT, identify the primary and secondary routes for the evacuation of Contractor’s employees, including the “rally point” where Contractor’s employees will assemble and carry-out an accountability check in case of an evacuation;

B) List emergency response contacts with titles and telephone numbers. Contractor shall immediately call FIT Security and the FIT Project Manager in the event of a spill of oil, chemicals, waste water, or hazardous materials;

C) Identify the name, address and route to nearest hospital or Contractor’s wellness center and

D) Provide a listing of emergency equipment for first aid, personal protection, spill response, fire protection and rescue.
### TABLE 1

**Project Name:** ___________________________  **Bid Number:** __________________

**CONTRACTOR ORGANIZATION CHART AND SAFETY DATA**

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>Name:</th>
<th>Address:</th>
<th>Phone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Name:</td>
<td>Phone:</td>
<td></td>
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<tr>
<td>Vice President – Operations</td>
<td>Name:</td>
<td>Phone:</td>
<td></td>
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<tr>
<td>Director of Environmental, Health, and Safety</td>
<td>Name:</td>
<td>Phone:</td>
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<tr>
<td>Contractor EHS Program Development</td>
<td>Name:</td>
<td>Phone:</td>
<td></td>
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<tr>
<td>OSHA Total Case Recordable Rate (TCRR)</td>
<td>:</td>
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<tr>
<td>Days Away from work, or Restricted work or job Transfer (DART)</td>
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<tr>
<td>Experience Modification Rate (EMR)</td>
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</tbody>
</table>

Listing of On-site Subcontractors for project work, as applicable -

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>ADDRESS</th>
<th>PHONE NUMBER</th>
<th>TASKS</th>
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<tr>
<td>TITLE</td>
<td>NAME(S) AND ON-SITE PHONE NUMBER</td>
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<td>----------------------------------------</td>
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<tr>
<td>On-site EHS Coordinator</td>
<td>:</td>
<td></td>
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<tr>
<td>Contractor Project Managers</td>
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<tr>
<td>FIT’s Project Manager(s)</td>
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<tr>
<td><strong>Contractor’s Competent Persons</strong></td>
<td>List all that Apply – Indicate not applicable areas for department /project work as “NA” For subcontractor employees, place subcontractor firm name in parenthesis after the employee’s name</td>
<td></td>
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<tr>
<td>- Confined Spaces</td>
<td>:</td>
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<tr>
<td>- Excavations</td>
<td>:</td>
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<tr>
<td>- Industrial Hygiene</td>
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<tr>
<td>- Electrical--Lock Out/Tag Out</td>
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<tr>
<td>- PPE, Respiratory Protection</td>
<td>:</td>
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<tr>
<td>- Hazard Communication (Required for each department and project. Identify responsible employee for each subcontractor)</td>
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<td>- Fall Protection</td>
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<td>- Scaffolds</td>
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<td></td>
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<tr>
<td>- Cranes &amp; Derricks</td>
<td>:</td>
<td></td>
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<tr>
<td>- Blasting &amp; Use of Explosives</td>
<td>:</td>
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</tbody>
</table>
TABLE 2 (Cont’d)

<table>
<thead>
<tr>
<th>ON-SITE SUPERVISORY PERSONNEL</th>
<th>Page 2 of 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Asbestos (Attach copies of Company license, supervisor and handler certificates for all employee that will perform work) :</td>
<td></td>
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<tr>
<td>• Lead</td>
<td></td>
</tr>
<tr>
<td>• Silica</td>
<td></td>
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<tr>
<td>• Hot Work (Complete and submit permits daily - see Appendix 1)</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Torch Operations</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Fire Guard</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Fire Guard</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Fire proofing</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Powder Activated Tools</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Air Compressors</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Use of LPG and Use in Tar Kettles</td>
<td></td>
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<tr>
<td>• FDNY REFRIGERATING SYSTEM OPERATING ENGINEER</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Other</td>
<td></td>
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<tr>
<td>• FDNY Certificate of Fitness-Other</td>
<td></td>
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</tbody>
</table>
## TABLE 3
LISTING OF REQUIRED EMPLOYEE/SUPERVISORY BRIEFINGS

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>Comments</th>
<th>TYPE (Monthly Supervisor/Bi-weekly Employee/Supervisor)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FIT Haz Com Briefing</td>
<td>At start of Work</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Briefing for FIT Employees in work area(s)</td>
<td>FIT briefing for all FIT Department Supervisors in areas where work may potentially affect FIT employees or students at start of work. Record name of FIT employee(s) briefed</td>
<td>Complete Daily Safety Management Work Permit (See Appendix 1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Review of FIT Emergency Evacuation Procedures</td>
<td>At start of Work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td>CONTACT NAME</td>
<td>EMERGENCY PHONE NUMBERS</td>
<td></td>
<td></td>
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<tr>
<td>-------</td>
<td>--------------</td>
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<td></td>
<td></td>
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<tr>
<td>Contractor: MAIN OFFICE</td>
<td></td>
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<tr>
<td>Contractor President:</td>
<td></td>
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<tr>
<td>On-site EHS Coordinator</td>
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<tr>
<td>FIT Facilities Management</td>
<td>Executive Director: George Jefremow</td>
<td>Phone: 212-217-4423</td>
<td></td>
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<tr>
<td></td>
<td>Assoc. Executive Director: Allen King</td>
<td>Phone: 212-217-4424</td>
<td></td>
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</tr>
<tr>
<td>FIT Environmental, Health and Safety Department</td>
<td>Director: Paul DeBiase <a href="mailto:paul_debiase@fitnyc.edu">paul_debiase@fitnyc.edu</a></td>
<td>Phone: 212-217-3752</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Acting Coordinator: Kathy Espinoza-Caraba <a href="mailto:kathy_espinosacaraba@fitnyc.edu">kathy_espinosacaraba@fitnyc.edu</a></td>
<td>Phone: 212-217-3754</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contractor Project Manager(s)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FIT Public Safety</td>
<td>Central Control</td>
<td>212-217-7777, or Use Red Phone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupational Safety And Health Administration, – Area Director</td>
<td>Provide Zip Code for the location of Accident</td>
<td>800-321-6742</td>
<td></td>
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</tr>
<tr>
<td>Location of nearest hospital and/or contractor’s wellness center</td>
<td></td>
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<tr>
<td>Rally Point and Accountability Check Location</td>
<td>In case of Building Evacuation Alarm</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Note:** Call FIT Central Control at 212-217-7777 in case or any emergency such as fire, chemical spills, injury requiring medical treatment, or exposure of contractor or FIT personnel to fumes, vapors, or dusts.
EXHIBIT B: PREVAILING WAGE SCHEDULE
PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

Attached is the current schedule(s) of the prevailing wage rates and prevailing hourly supplements for the project referenced above. A unique Prevailing Wage Case Number (PRC#) has been assigned to the schedule(s) for your project.

The schedule is effective from July 2023 through June 2024. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.ny.gov. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

It is the responsibility of the contracting agency or its agent to annex and make part, the attached schedule, to the specifications for this project, when it is advertised for bids and /or to forward said schedules to the successful bidder(s), immediately upon receipt, in order to insure the proper payment of wages.

Please refer to the "General Provisions of Laws Covering Workers on Public Work Contracts" provided with this schedule, for the specific details relating to other responsibilities of the Department of Jurisdiction.

Upon completion or cancellation of this project, enter the required information and mail OR fax this form to the office shown at the bottom of this notice, OR fill out the electronic version via the NYSDOL website.
Introduction

The Labor Law requires public work contractors and subcontractors to pay laborers, workers, or mechanics employed in the performance of a public work contract not less than the prevailing rate of wage and supplements (fringe benefits) in the locality where the work is performed.

Responsibilities of the Department of Jurisdiction

A Department of Jurisdiction (Contracting Agency) includes a state department, agency, board or commission: a county, city, town or village; a school district, board of education or board of cooperative educational services; a sewer, water, fire, improvement and other district corporation; a public benefit corporation; and a public authority awarding a public work contract.

The Department of Jurisdiction (Contracting Agency) awarding a public work contract MUST obtain a Prevailing Rate Schedule listing the hourly rates of wages and supplements due the workers to be employed on a public work project. This schedule may be obtained by completing and forwarding a "Request for wage and Supplement Information" form (PW 39) to the Bureau of Public Work. The Prevailing Rate Schedule MUST be included in the specifications for the contract to be awarded and is deemed part of the public work contract.

Upon the awarding of the contract, the law requires that the Department of Jurisdiction (Contracting Agency) furnish the following information to the Bureau: the name and address of the contractor, the date the contract was let and the approximate dollar value of the contract. To facilitate compliance with this provision of the Labor Law, a copy of the Department's "Notice of Contract Award" form (PW 16) is provided with the original Prevailing Rate Schedule.

Both the PW 16 and PW 200 forms are available for completion online.

Hours

No laborer, worker, or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The contractor and the Department of Jurisdiction (Contracting Agency) may apply to the Bureau of Public Work for a dispensation permitting workers to work additional hours or days per week on a particular public work project.

Wages and Supplements

The wages and supplements to be paid and/or provided to laborers, workers, and mechanics employed on a public work project shall be not less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. If a prime contractor on a public work project has not been provided with a Prevailing Rate Schedule, the contractor must notify the Department of Jurisdiction (Contracting Agency) who in turn must request an original Prevailing Rate Schedule form the Bureau of Public Work. Requests may be submitted by: mail to NYSDOL, Bureau of Public Work, State Office Bldg. Campus, Bldg. 12, Rm. 130, Albany, NY 12226; Fax to Bureau of Public Work (518) 485-1870; or electronically at the NYSDOL website www.labor.ny.gov.

The Commissioner of Labor makes an annual determination of the prevailing rates. This determination is in effect from July 1st through June 30th of the following year. The annual determination is available on the NYSDOL website www.labor.ny.gov.

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. As per Article 6 of the Labor law, contractors and subcontractors are required to establish, maintain, and preserve for not less than six (6) years, contemporaneous, true, and accurate payroll records. At a minimum, payrolls must show the following information for each person employed on a public work project: Name, Address, Last 4 Digits of Social Security Number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.
The filing of payrolls to the Department of Jurisdiction is a condition of payment. Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury. The Department of Jurisdiction (Contracting Agency) shall collect, review for facial validity, and maintain such payrolls.

In addition, the Commissioner of Labor may require contractors to furnish, with ten (10) days of a request, payroll records sworn to as their validity and accuracy for public work and private work. Payroll records include, but are not limited to time cards, work description sheets, proof that supplements were provided, cancelled payroll checks and payrolls. Failure to provide the requested information within the allotted ten (10) days will result in the withholding of up to 25% of the contract, not to exceed $100,000.00. If the contractor or subcontractor does not maintain a place of business in New York State and the amount of the contract exceeds $25,000.00, payroll records and certifications must be kept on the project worksite.

The prime contractor is responsible for any underpayments of prevailing wages or supplements by any subcontractor.

All contractors or their subcontractors shall provide to their subcontractors a copy of the Prevailing Rate Schedule specified in the public work contract as well as any subsequently issued schedules. A failure to provide these schedules by a contractor or subcontractor is a violation of Article 8, Section 220-a of the Labor Law.

All subcontractors engaged by a public work project contractor or its subcontractor, upon receipt of the original schedule and any subsequently issued schedules, shall provide to such contractor a verified statement attesting that the subcontractor has received the Prevailing Rate Schedule and will pay or provide the applicable rates of wages and supplements specified therein. (See NYS Labor Laws, Article 8 . Section 220-a).

**Determination of Prevailing Wage and Supplement Rate Updates Applicable to All Counties**

The wages and supplements contained in the annual determination become effective July 1st whether or not the new determination has been received by a given contractor. Care should be taken to review the rates for obvious errors. Any corrections should be brought to the Department's attention immediately. It is the responsibility of the public work contractor to use the proper rates. If there is a question on the proper classification to be used, please call the district office located nearest the project. Any errors in the annual determination will be corrected and posted to the NYSDOL website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. To the extent possible, the Department posts rates in its possession that cover periods of time beyond the July 1st to June 30th time frame covered by a particular annual determination. Rates that extend beyond that instant time period are informational ONLY and may be updated in future annual determinations that actually cover the then appropriate July 1st to June 30th time period.

**Withholding of Payments**

When a complaint is filed with the Commissioner of Labor alleging the failure of a contractor or subcontractor to pay or provide the prevailing wages or supplements, or when the Commissioner of Labor believes that unpaid wages or supplements may be due, payments on the public work contract shall be withheld from the prime contractor in a sufficient amount to satisfy the alleged unpaid wages and supplements, including interest and civil penalty, pending a final determination.

When the Bureau of Public Work finds that a contractor or subcontractor on a public work project failed to pay or provide the requisite prevailing wages or supplements, the Bureau is authorized by Sections 220-b and 235.2 of the Labor Law to so notify the financial officer of the Department of Jurisdiction (Contracting Agency) that awarded the public work contract. Such officer MUST then withhold or cause to be withheld from any payment due the prime contractor on account of such contract the amount indicated by the Bureau as sufficient to satisfy the unpaid wages and supplements, including interest and any civil penalty that may be assessed by the Commissioner of Labor. The withholding continues until there is a final determination of the underpayment by the Commissioner of Labor or by the court in the event a legal proceeding is instituted for review of the determination of the Commissioner of Labor.

The Department of Jurisdiction (Contracting Agency) shall comply with this order of the Commissioner of Labor or of the court with respect to the release of the funds so withheld.

**Summary of Notice Posting Requirements**

The current Prevailing Rate Schedule must be posted in a prominent and accessible place on the site of the public work project. The prevailing wage schedule must be encased in, or constructed of, materials capable of withstanding adverse weather conditions and be titled "PREVAILING RATE OF WAGES" in letters no smaller than two (2) inches by two (2) inches.

The "Public Work Project" notice must be posted at the beginning of the performance of every public work contract, on each job site.
Every employer providing workers' compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

Every employer subject to the NYS Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers, notices furnished by the State Division of Human Rights.

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the NYS Department of Labor.

**Apprentices**

Employees cannot be paid apprentice rates unless they are individually registered in a program registered with the NYS Commissioner of Labor. The allowable ratio of apprentices to journeymen in any craft classification can be no greater than the statewide building trade ratios promulgated by the Department of Labor and included with the Prevailing Rate Schedule. An employee listed on a payroll as an apprentice who is not registered as above or is performing work outside the classification of work for which the apprentice is indentured, must be paid the prevailing journeycman's wage rate for the classification of work the employee is actually performing.

NYSDOL Labor Law, Article 8, Section 220-3, require that only apprentices individually registered with the NYS Department of Labor may be paid apprenticeship rates on a public work project. No other Federal or State Agency of office registers apprentices in New York State.

Persons wishing to verify the apprentice registration of any person must do so in writing by mail, to the NYSDOL Office of Employability Development / Apprenticeship Training, State Office Bldg. Campus, Bldg. 12, Albany, NY 12226 or by Fax to NYSDOL Apprenticeship Training (518) 457-7154. All requests for verification must include the name and social security number of the person for whom the information is requested.

The only conclusive proof of individual apprentice registration is written verification from the NYSDOL Apprenticeship Training Albany Central office. Neither Federal nor State Apprenticeship Training offices outside of Albany can provide conclusive registration information.

It should be noted that the existence of a registered apprenticeship program is not conclusive proof that any person is registered in that program. Furthermore, the existence or possession of wallet cards, identification cards, or copies of state forms is not conclusive proof of the registration of any person as an apprentice.

**Interest and Penalties**

In the event that an underpayment of wages and/or supplements is found:

- Interest shall be assessed at the rate then in effect as prescribed by the Superintendent of Banks pursuant to section 14-a of the Banking Law, per annum from the date of underpayment to the date restitution is made.
- A Civil Penalty may also be assessed, not to exceed 25% of the total of wages, supplements, and interest due.

**Debarment**

Any contractor or subcontractor and/or its successor shall be ineligible to submit a bid on or be awarded any public work contract or subcontract with any state, municipal corporation or public body for a period of five (5) years when:

- Two (2) willful determinations have been rendered against that contractor or subcontractor and/or its successor within any consecutive six (6) year period.
- There is any willful determination that involves the falsification of payroll records or the kickback of wages or supplements.

**Criminal Sanctions**

Willful violations of the Prevailing Wage Law (Article 8 of the Labor Law) may be a felony punishable by fine or imprisonment of up to 15 years, or both.

**Discrimination**

No employee or applicant for employment may be discriminated against on account of age, race, creed, color, national origin, sex, disability or marital status.

No contractor, subcontractor nor any person acting on its behalf, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates (NYS Labor Law, Article 8, Section 220-e(a)).

No contractor, subcontractor, nor any person acting on its behalf, shall in any manner, discriminate against or intimidate any employee on account of race, creed, color, disability, sex, or national origin (NYS Labor Law, Article 8, Section 220-e(b)).
The Human Rights Law also prohibits discrimination in employment because of age, marital status, or religion.

There may be deducted from the amount payable to the contractor under the contract a penalty of $50.00 for each calendar day during which such person was discriminated against or intimidated in violation of the provision of the contract (NYS Labor Law, Article 8, Section 220-e(c)).

The contract may be cancelled or terminated by the State or municipality. All monies due or to become due thereunder may be forfeited for a second or any subsequent violation of the terms or conditions of the anti-discrimination sections of the contract (NYS Labor Law, Article 8, Section 220-e(d)).

Every employer subject to the New York State Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers notices furnished by the State Division of Human Rights.

**Workers' Compensation**

In accordance with Section 142 of the State Finance Law, the contractor shall maintain coverage during the life of the contract for the benefit of such employees as required by the provisions of the New York State Workers' Compensation Law.

A contractor who is awarded a public work contract must provide proof of workers' compensation coverage prior to being allowed to begin work.

The insurance policy must be issued by a company authorized to provide workers' compensation coverage in New York State. Proof of coverage must be on form C-105.2 (Certificate of Workers' Compensation Insurance) and must name this agency as a certificate holder.

If New York State coverage is added to an existing out-of-state policy, it can only be added to a policy from a company authorized to write workers' compensation coverage in this state. The coverage must be listed under item 3A of the information page.

The contractor must maintain proof that subcontractors doing work covered under this contract secured and maintained a workers' compensation policy for all employees working in New York State.

Every employer providing worker's compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

**Unemployment Insurance**

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the New York State Department of Labor.
Notice of Contract Award

New York State Labor Law, Article 8, Section 220.3a requires that certain information regarding the awarding of public work contracts, be furnished to the Commissioner of Labor. One "Notice of Contract Award" (PW 16, which may be photocopied), MUST be completed for EACH prime contractor on the above referenced project.

Upon notifying the successful bidder(s) of this contract, enter the required information and mail OR fax this form to the office shown at the bottom of this notice, OR fill out the electronic version via the NYSDOL website.

Contractor Information
All information must be supplied

Federal Employer Identification Number: ________________________________

Name: ________________________________

Address: ________________________________

City: ________________________________ State: ____________ Zip: ____________

Amount of Contract: $ ________________ Contract Type:

[ ] (01) General Construction
[ ] (02) Heating/Ventilation
[ ] (03) Electrical
[ ] (04) Plumbing
[ ] (05) Other: _______________________

Approximate Starting Date: _______/_____/_______

Approximate Completion Date: _______/_____/_______

Fashion Institute of Technolog
Sam Li, Interim Director of Purchasing
333 7th Ave
New York NY 10001

Schedule Year 2023 through 2024
Date Requested 12/08/2023
PRC# 2023014301

Location Fashion Institute of Technolog
Project ID# C1610
Project Type Provide labor, materials, tests, tools and equipment to complete the roof replacement of the East Courtyard.

W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12226

Phone: (518) 457-5589 Fax: (518) 485-1870

www.labor.ny.gov PW 16 Ask.PWAsk@labor.ny.gov
Social Security Numbers on Certified Payrolls:

The Department of Labor is cognizant of the concerns of the potential for misuse or inadvertent disclosure of social security numbers. Identity theft is a growing problem and we are sympathetic to contractors’ concern regarding inclusion of this information on payrolls if another identifier will suffice.

For these reasons, the substitution of the use of the last four digits of the social security number on certified payrolls submitted to contracting agencies on public work projects is now acceptable to the Department of Labor. This change does not affect the Department's ability to request and receive the entire social security number from employers during its public work/prevailing wage investigations.

Construction Industry Fair Play Act: Required Posting for Labor Law Article 25-B § 861-d

Construction industry employers must post the "Construction Industry Fair Play Act" notice in a prominent and accessible place on the job site. Failure to post the notice can result in penalties of up to $1,500 for a first offense and up to $5,000 for a second offense. The posting is included as part of this wage schedule. Additional copies may be obtained from the NYS DOL website, https://dol.ny.gov/public-work-and-prevailing-wage

If you have any questions concerning the Fair Play Act, please call the State Labor Department toll-free at 1-866-435-1499 or email us at: dol.misclassified@labor.ny.gov.

Worker Notification: (Labor Law §220, paragraph a of subdivision 3-a)

Effective June 23, 2020

This provision is an addition to the existing wage rate law, Labor Law §220, paragraph a of subdivision 3-a. It requires contractors and subcontractors to provide written notice to all laborers, workers or mechanics of the prevailing wage and supplement rate for their particular job classification on each pay stub*. It also requires contractors and subcontractors to post a notice at the beginning of the performance of every public work contract on each job site that includes the telephone number and address for the Department of Labor and a statement informing laborers, workers or mechanics of their right to contact the Department of Labor if he/she is not receiving the proper prevailing rate of wages and/or supplements for his/her job classification. The required notification will be provided with each wage schedule, may be downloaded from our website www.labor.ny.gov or be made available upon request by contacting the Bureau of Public Work at 518-457-5589. *In the event the required information will not fit on the pay stub, an accompanying sheet or attachment of the information will suffice.

(12.20)
To all State Departments, Agency Heads and Public Benefit Corporations

IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

Budget Policy & Reporting Manual

B-610

Public Work Enforcement Fund

effective date December 7, 2005

1. Purpose and Scope:

This Item describes the Public Work Enforcement Fund (the Fund, PWEF) and its relevance to State agencies and public benefit corporations engaged in construction or reconstruction contracts, maintenance and repair, and announces the recently-enacted increase to the percentage of the dollar value of such contracts that must be deposited into the Fund. This item also describes the roles of the following entities with respect to the Fund:

- New York State Department of Labor (DOL),
- The Office of the State of Comptroller (OSC), and
- State agencies and public benefit corporations.

2. Background and Statutory References:

DOL uses the Fund to enforce the State's Labor Law as it relates to contracts for construction or reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law. State agencies and public benefit corporations participating in such contracts are required to make payments to the Fund.


3. Procedures and Agency Responsibilities:

The Fund is supported by transfers and deposits based on the value of contracts for construction and reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law, into which all State agencies and public benefit corporations enter.

Chapter 407 of the Laws of 2005 increased the amount required to be provided to this fund to .10 of one-percent of the total cost of each such contract, to be calculated at the time agencies or public benefit corporations enter into a new contract or if a contract is amended. The provisions of this bill became effective August 2, 2005.
To all State Departments, Agency Heads and Public Benefit Corporations

IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

OSC will report to DOL on all construction-related ("D") contracts approved during the month, including contract amendments, and then DOL will bill agencies the appropriate assessment monthly. An agency may then make a determination if any of the billed contracts are exempt and so note on the bill submitted back to DOL. For any instance where an agency is unsure if a contract is or is not exempt, they can call the Bureau of Public Work at the number noted below for a determination. Payment by check or journal voucher is due to DOL within thirty days from the date of the billing. DOL will verify the amounts and forward them to OSC for processing.

For those contracts which are not approved or administered by the Comptroller, monthly reports and payments for deposit into the Public Work Enforcement Fund must be provided to the Administrative Finance Bureau at the DOL within 30 days of the end of each month or on a payment schedule mutually agreed upon with DOL.

Reports should contain the following information:

- Name and billing address of State agency or public benefit corporation;
- State agency or public benefit corporation contact and phone number;
- Name and address of contractor receiving the award;
- Contract number and effective dates;
- Contract amount and PWEF assessment charge (if contract amount has been amended, reflect increase or decrease to original contract and the adjustment in the PWEF charge); and
- Brief description of the work to be performed under each contract.

Checks and Journal Vouchers, payable to the "New York State Department of Labor" should be sent to:

Department of Labor
Administrative Finance Bureau-PWEF Unit
Building 12, Room 464
State Office Campus
Albany, NY 12226

Any questions regarding billing should be directed to NYSDOL's Administrative Finance Bureau-PWEF Unit at (518) 457-3624 and any questions regarding Public Work Contracts should be directed to the Bureau of Public Work at (518) 457-5589.
Attention All Employees, Contractors and Subcontractors: You are Covered by the Construction Industry Fair Play Act

The law says that you are an employee unless:

- You are free from direction and control in performing your job, **and**
- You perform work that is not part of the usual work done by the business that hired you, **and**
- You have an independently established business.

Your employer cannot consider you to be an independent contractor unless all three of these facts apply to your work.

**It is against the law for an employer to misclassify employees as independent contractors or pay employees off the books.**

**Employee Rights:** If you are an employee, you are entitled to state and federal worker protections. These include:

- Unemployment Insurance benefits, if you are unemployed through no fault of your own, able to work, and otherwise qualified,
- Workers’ compensation benefits for on-the-job injuries,
- Payment for wages earned, minimum wage, and overtime (under certain conditions),
- Prevailing wages on public work projects,
- The provisions of the National Labor Relations Act, and
- A safe work environment.

It is a violation of this law for employers to retaliate against anyone who asserts their rights under the law. Retaliation subjects an employer to civil penalties, a private lawsuit or both.

**Independent Contractors:** If you are an independent contractor, you **must pay all taxes and Unemployment Insurance contributions required by New York State and Federal Law.**

**Penalties** for paying workers off the books or improperly treating employees as independent contractors:

- **Civil Penalty**
  - First offense: Up to $2,500 per employee
  - Subsequent offense(s): Up to $5,000 per employee

- **Criminal Penalty**
  - First offense: Misdemeanor - up to 30 days in jail, up to a $25,000 fine and debarment from performing public work for up to one year.
  - Subsequent offense(s): Misdemeanor - up to 60 days in jail or up to a $50,000 fine and debarment from performing public work for up to 5 years.

If you have questions about your employment status or believe that your employer may have violated your rights and you want to file a complaint, call the Department of Labor at (866) 435-1499 or send an email to dol.misclassified@labor.ny.gov. All complaints of fraud and violations are taken seriously. You can remain anonymous.

**Employer Name:**
IA 999 (09/16)
Attention Employees

THIS IS A:

PUBLIC WORK PROJECT

If you are employed on this project as a worker, laborer, or mechanic you are entitled to receive the prevailing wage and supplements rate for the classification at which you are working.

Your pay stub and wage notice received upon hire must clearly state your wage rate and supplement rate.

Chapter 629 of the Labor Laws of 2007:

These wages are set by law and must be posted at the work site. They can also be found at: https://dol.ny.gov/bureau-public-work

If you feel that you have not received proper wages or benefits, please call our nearest office.*

Albany (518) 457-2744
Binghamton (607) 721-8005
Buffalo (716) 847-7159
Garden City (516) 228-3915
New York City (212) 932-2419
Newburgh (845) 568-5287
Patchogue (631) 687-4882
Rochester (585) 258-4505
Syracuse (315) 428-4056
Utica (315) 793-2314
White Plains (914) 997-9507

* For New York City government agency construction projects, please contact the Office of the NYC Comptroller at (212) 669-4443, or www.comptroller.nyc.gov – click on Bureau of Labor Law.

Contractor Name: ____________________________
Project Location: ____________________________

PW 101 (08/23)
Requirements for OSHA 10 Compliance

Article 8 §220-h requires that when the advertised specifications, for every contract for public work, is $250,000.00 or more the contract must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course. The clear intent of this provision is to require that all employees of public work contractors, required to be paid prevailing rates, receive such training “prior to the performing any work on the project.”

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- Copies of bona fide course completion card (Note: Completion cards do not have an expiration date.)
- Training roster, attendance record of other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

**A certification by the employer attesting that all employees have completed such a course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-457-5589.

WICKS

Public work projects are subject to the Wicks Law requiring separate specifications and bidding for the plumbing, heating and electrical work, when the total project's threshold is $3 million in Bronx, Kings, New York, Queens and, Richmond counties; $1.5 million in Nassau, Suffolk and Westchester counties; and $500,000 in all other counties.

For projects below the monetary threshold, bidders must submit a sealed list naming each subcontractor for the plumbing, HVAC and electrical and the amount to be paid to each. The list may not be changed unless the public owner finds a legitimate construction need, including a change in specifications or costs or the use of a Project Labor Agreement (PLA), and must be open to public inspection.

Allows the state and local agencies and authorities to waive the Wicks Law and use a PLA if it will provide the best work at the lowest possible price. If a PLA is used, all contractors shall participate in apprentice training programs in the trades of work it employs that have been approved by the Department of Labor (DOL) for not less than three years. They shall also have at least one graduate in the last three years and use affirmative efforts to retain minority apprentices. PLA’s would be exempt from Wicks, but deemed to be public work subject to prevailing wage enforcement.

The Commissioner of Labor shall have the power to enforce separate specification requirements on projects, and may issue stop-bid orders against public owners for non-compliance.

Other new monetary thresholds, and similar sealed bidding for non-Wicks projects, would apply to certain public authorities including municipal housing authorities, NYC Construction Fund, Yonkers Educational Construction Fund, NYC Municipal Water Finance Authority, Buffalo Municipal Water Finance Authority, Westchester County Health Care Association, Nassau County Health Care Corp., Clifton-Fine Health Care Corp., Erie County Medical Center Corp., NYC Solid Waste Management Facilities, and the Dormitory Authority.

Contractors must pay subcontractors within a 7 days period.

(07.19)
Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

This information is provided to assist you in the interpretation of particular requirements for each classification of worker contained in the attached Schedule of Prevailing Rates.

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway, building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district office located nearest the project. District office locations and phone numbers are listed below.

Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates.

Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing, or rental type units intended for residential use.

Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

Payrolls and Payroll Records

Contractors and subcontractors are required to establish, maintain, and preserve for not less that six (6) years, contemporaneous, true, and accurate payroll records.

Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury.

Paid Holidays

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

Overtime

At a minimum, all work performed on a public work project in excess of eight hours in any one day or more than five days in any workweek is overtime. However, the specific overtime requirements for each trade or occupation on a public work project may differ. Specific overtime requirements for each trade or occupation are contained in the prevailing rate schedules.

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays.

The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Supplemental Benefits

Particular attention should be given to the supplemental benefit requirements. Although in most cases the payment or provision of supplements is straight time for all hours worked, some classifications require the payment or provision of supplements, or a portion of the supplements, to be paid or provided at a premium rate for premium hours worked. Supplements may also be required to be paid or provided on paid holidays, regardless of whether the day is worked. The Overtime Codes and Notes listed on the particular wage classification will indicate these conditions as required.

Effective Dates

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. The rate listed is valid until the next effective rate change or until the new annual determination which takes effect on July 1 of each year. All contractors and subcontractors are required to pay the current prevailing rates of wages and supplements. If you have any questions please contact the Bureau of Public Work or visit the New York State Department of Labor website (www.labor.ny.gov) for current wage rate information.

Apprentice Training Ratios

The following are the allowable ratios of registered Apprentices to Journey-workers.

For example, the ratio 1:1,1:3 indicates the allowable initial ratio is one Apprentice to one Journeyworker. The Journeyworker must be in place on the project before an Apprentice is allowed. Then three additional Journeyworkers are needed before a second Apprentice is allowed. The last ratio repeats indefinitely. Therefore, three more Journeyworkers must be present before a third Apprentice can be hired, and so on.

Please call Apprentice Training Central Office at (518) 457-6820 if you have any questions.
<table>
<thead>
<tr>
<th>Title (Trade)</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boilermaker (Construction)</td>
<td>1:1,1:4</td>
</tr>
<tr>
<td>Boilermaker (Shop)</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Carpenter (Bldg., H&amp;H, Pile Driver/Dockbuilder)</td>
<td>1:1,1:4</td>
</tr>
<tr>
<td>Carpenter (Residential)</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Electrical (Outside) Lineman</td>
<td>1:1,1:2</td>
</tr>
<tr>
<td>Electrician (Inside)</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Elevator/Escalator Construction &amp; Modernizer</td>
<td>1:1,1:2</td>
</tr>
<tr>
<td>Glazier</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Insulation &amp; Asbestos Worker</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Iron Worker</td>
<td>1:1,1:4</td>
</tr>
<tr>
<td>Laborer</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Mason</td>
<td>1:1,1:4</td>
</tr>
<tr>
<td>Millwright</td>
<td>1:1,1:4</td>
</tr>
<tr>
<td>Op Engineer</td>
<td>1:1,1:5</td>
</tr>
<tr>
<td>Painter</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Plumber &amp; Steamfitter</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Roofer</td>
<td>1:1,1:2</td>
</tr>
<tr>
<td>Sheet Metal Worker</td>
<td>1:1,1:3</td>
</tr>
<tr>
<td>Sprinkler Fitter</td>
<td>1:1,1:2</td>
</tr>
</tbody>
</table>

If you have any questions concerning the attached schedule or would like additional information, please contact the nearest BUREAU of PUBLIC WORK District Office or write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12226

District Office Locations:  Telephone #       FAX #
Bureau of Public Work - Buffalo      716-847-7159     716-847-7650
Bureau of Public Work - Garden City  516-228-3915     516-794-3518
Bureau of Public Work - Newburgh     845-568-5287     845-568-5332
Bureau of Public Work - New York City 212-932-2419   212-775-3579
Bureau of Public Work - Patchogue    631-687-4882     631-687-4902
Bureau of Public Work - Rochester    585-258-4505     585-258-4708
Bureau of Public Work - Syracuse     315-428-4056     315-428-4671
Bureau of Public Work - Utica        315-793-2314     315-793-2514
Bureau of Public Work - White Plains 914-997-9507     914-997-9523
Bureau of Public Work - Central Office 518-457-5589    518-485-1870
New York County General Construction

Asbestos Worker 12/01/2023

JOB DESCRIPTION  Asbestos Worker

DISTRICT 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2023

Asbestos Worker $ 46.75
Removal & Abatement Only*

NOTE: *On Mechanical Systems that are NOT to be SCRAPPED.

SUPPLEMENTAL BENEFITS
Per Hour:

Asbestos Worker $ 12.65
Removal & Abatement Only

OVERTIME PAY
See (B, B2, *E, J) on OVERTIME PAGE
*Hours worked on Saturdays are paid at time and one half only if forty hours have been worked during the week.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8) on HOLIDAY PAGE

REGISTERED APPRENTICES
Apprentice Removal & Abatement Only:
1000 hour terms at the following percentage of Journeyman's rates.

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>78%</td>
<td>80%</td>
<td>83%</td>
<td>89%</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL BENEFIT
Per Hour:

Apprentice
Removal & Abatement $ 12.65

4-12a - Removal Only

Boilermaker 12/01/2023

JOB DESCRIPTION  Boilermaker

DISTRICT 4

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES
Per Hour: 07/01/2023 01/01/2024

Boilermaker $ 65.88 $ 67.38
Repairs & Renovations 65.88 67.38

Repairs & Renovation: Includes Repairing, Renovating replacement of parts to an existing unit(s).

SUPPLEMENTAL BENEFITS
Per Hour:

Boilermaker 33.5% of hourly 33.5% of Hourly
Repair $ Renovations Wage Paid Wage Paid + $ 26.49 + $26.85

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

Repairs & Renovation Includes replacement of parts and repairs & renovation of existing unit.

OVERTIME PAY
See (*B, O, **U) on OVERTIME PAGE
Note:* Includes 9th & 10th hours, double for 11th or more.
** Labor Day ONLY, if worked.
**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6, 11, 12, 15, 25, 26, 29) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wage per hour:  
(1/2) Year Terms at the following percentage of Boilermaker’s Wage  

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
<th>7th</th>
</tr>
</thead>
<tbody>
<tr>
<td>65%</td>
<td>70%</td>
<td>75%</td>
<td>80%</td>
<td>85%</td>
<td>90%</td>
<td>95%</td>
</tr>
</tbody>
</table>

Supplemental Benefits Per Hour:

<table>
<thead>
<tr>
<th>Apprentice(s)</th>
<th>33.5% of Hourly Wage Paid Plus Amount Below</th>
<th>33.5% of Hourly Wage Paid Plus Amount Below</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Term</td>
<td>$20.12</td>
<td>$20.36</td>
</tr>
<tr>
<td>2nd Term</td>
<td>21.03</td>
<td>21.28</td>
</tr>
<tr>
<td>3rd Term</td>
<td>21.95</td>
<td>22.22</td>
</tr>
<tr>
<td>4th Term</td>
<td>22.83</td>
<td>23.12</td>
</tr>
<tr>
<td>5th Term</td>
<td>23.76</td>
<td>24.07</td>
</tr>
<tr>
<td>6th Term</td>
<td>24.67</td>
<td>25.00</td>
</tr>
<tr>
<td>7th Term</td>
<td>25.58</td>
<td>25.93</td>
</tr>
</tbody>
</table>

**NOTE:** "Hourly Wage Paid" shall include any and all premium(s)

---

**Broadband**

**JOB DESCRIPTION** Broadband  
**DISTRICT** 4

**ENTIRE COUNTIES**  
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

**WAGES**

Per Hour:  
7/01/2023 - 06/30/2024  
Field Tech $50.87 3% *

(*)To be allocated at a later date.

For outside work (excluding installation on building construction/alteration/renovation projects), stopping at first point of attachment (demarcation), installing/maintaining/repairing broadband internet service.

**SUPPLEMENTAL BENEFITS**

Per Hour: $23.24

**OVERTIME PAY**

See (B, K, *R) on OVERTIME PAGE  
Note: *Two and one half times the hourly rate after the 8th hour

**HOLIDAY**

Paid: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

---

**Carpenter**

**JOB DESCRIPTION** Carpenter  
**DISTRICT** 8

**ENTIRE COUNTIES**  
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

**WAGES**

Per Hour:  
07/01/2023  
Piledriver $59.16  
+ 9.79*

---

*Prevailing Wage Rates for 07/01/2023 - 06/30/2024 Published by the New York State Department of Labor  
Last Published on Dec 01 2023 PRC Number 2023014301 New York County*
Dockbuilder $ 59.16 + 9.79*

*This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker $ 45.34

OVERTIME PAY
See (B, E2, O) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.
Apprentices See (5,6,11,13,25)

Overtime: See (5,6,11,13,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour
(1)year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>$25.60</td>
<td>$31.20</td>
<td>$39.58</td>
<td>$47.97</td>
</tr>
<tr>
<td>+ 5.30*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>$31.20</td>
<td>$39.58</td>
<td>$47.97</td>
<td></td>
</tr>
<tr>
<td>+ 5.30*</td>
<td></td>
<td>+ 5.30*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>$39.58</td>
<td>$47.97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+ 5.30*</td>
<td>+ 5.30*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4th</td>
<td>$47.97</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+ 5.30*</td>
<td>+ 5.30*</td>
<td>+ 5.30*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums

Supplemental benefits per hour:

All Terms: $ 31.83

Carpenter

JOB DESCRIPTION Carpenter

DISTRIBUTION 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per hour: 07/01/2023

Carpenter/Resilient
Floor Coverer $ 55.05 + 8.25*

*This portion is not subject to overtime premiums

INCLUDES HANDLING & INSTALLATION OF ARTIFICIAL TURF AND SIMILAR TURF INDOORS/OUTDOORS.

SUPPLEMENTAL BENEFITS
Per hour:

$ 39.45

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18, 19) on HOLIDAY PAGE.

Paid for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wage per hour - (1) year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>$25.20</td>
<td>$28.20</td>
<td>$32.45</td>
<td>$40.33</td>
</tr>
<tr>
<td>+ 1.85*</td>
<td></td>
<td>+ 2.35*</td>
<td>+ 2.85*</td>
<td>+ 3.85*</td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums
Supplemental benefits per hour:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$15.22</td>
<td>$16.22</td>
<td>$19.32</td>
<td>$20.32</td>
</tr>
</tbody>
</table>

8-2287

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per Hour: 07/01/2023

Marine Construction:

Marine Diver $74.03
+ 9.79*

Marine Tender $53.57
+ 9.79*

*This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS
Per Hour:

Journeyworker $45.34

*This portion is not subject to overtime premiums

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (18, 19) on HOLIDAY PAGE
Overtime: See (5, 6, 10, 11, 13, 16, 18, 19) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:
One (1) year terms.

1st year $25.60
+ 5.30*

2nd year 31.20
+ 5.30*

3rd year 39.58
+ 5.30*

4th year 47.97
+ 5.05*

*This portion is not subject to overtime premiums

Supplemental Benefits
Per Hour:

All terms $31.83

8-1456MC

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES
Per hour: 07/01/2023

Building
Millwright $58.70
+ 12.62*
SUPPLEMENTAL BENEFITS
Per hour:
Millwright $ 44.31

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid:
See (18,19) on HOLIDAY PAGE.

Overtime
See (5,6,8,11,13,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour:
One (1) year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>$31.74</td>
<td>$37.19</td>
<td>$42.64</td>
<td>$53.54</td>
</tr>
<tr>
<td>+ 6.75*</td>
<td>+ 7.92*</td>
<td>+ 9.09*</td>
<td>+ 11.43*</td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums

Supplemental benefits per hour:
One (1) year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>$29.81</td>
<td>$32.34</td>
<td>$35.52</td>
<td>$39.94</td>
</tr>
</tbody>
</table>

REGISTERED APPRENTICES
Wages per hour:
One (1) year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>$23.42</td>
<td>$28.53</td>
<td>$36.18</td>
<td>$43.84</td>
</tr>
<tr>
<td>+ 5.55*</td>
<td>+ 5.55*</td>
<td>+ 5.55*</td>
<td>+ 5.55*</td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums
Supplemental benefits per hour:
All terms $ 31.54

Carpenter

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Rockland, Westchester

PARTIAL COUNTIES
Orange: South of but including the following, Waterloo Mills, Slate Hill, New Hampton, Goshen, Blooming Grove, Mountainville, east to the Hudson River.
Putnam: South of but including the following, Cold Spring, Tompkins Corner, Mahopac, Croton Falls, east to Connecticut border.
Suffolk: West of Port Jefferson and Patchogue Road to Route 112 to the Atlantic Ocean.

WAGES
Per hour: 07/01/2023

Core Drilling:
- Driller $ 43.88
  + 2.50*
- Driller Helper $ 34.47
  + 2.50*

Note: Hazardous Waste Pay Differential:
- For Level C, an additional 15% above wage rate per hour
- For Level B, an additional 15% above wage rate per hour
- For Level A, an additional 15% above wage rate per hour

Note: When required to work on water: an additional $ 3.00 per hour.

* This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS
Per hour:
- Driller and Helper $ 28.85

OVERTIME PAY
See (B, G, P) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

8-1536-CoreDriller

Carpenter

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond

PARTIAL COUNTIES
Nassau: That portion of the county that lies west of Sea ford Creek and south of the Southern State Parkway.

WAGES
Per hour: 07/01/2023

Show Exhibit $ 55.75
  + 9.50**
- Bldg. Carpenter* $ 55.05
  + 8.25**

* Not applicable in Putnam County
** This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS
Per hour worked:
- Show Exhibit $ 44.50
- Bldg. Carpenter 39.45
OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE.

HOLIDAY
Paid: See (18,19) on HOLIDAY PAGE.
Paid: for 1st & 2nd yr.
Apprentices See (5,6,11,13,16,18,19,25)
Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour: Show Exhibit

(1) year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage</td>
<td>$22.30</td>
<td>$27.88</td>
<td>$36.24</td>
<td>$44.60</td>
</tr>
<tr>
<td>+4.75*</td>
<td>+4.75*</td>
<td>+4.75*</td>
<td>+4.75*</td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums.

Supplemental benefits per hour:
All terms $30.25

Wages per hour: Bldg. Carpenter
(1) year terms:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage</td>
<td>$20.20</td>
<td>$23.20</td>
<td>$27.45</td>
<td>$35.33</td>
</tr>
<tr>
<td>+1.85*</td>
<td>+2.30*</td>
<td>+2.80*</td>
<td>+3.80*</td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums.

Supplemental benefits per hour:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage</td>
<td>$15.22</td>
<td>$16.27</td>
<td>$19.37</td>
<td>$20.37</td>
</tr>
</tbody>
</table>

JOB DESCRIPTION Carpenter - Heavy&Highway
DISTRICT 8
ENTIRE COUNTIES Bronx, Kings, New York, Queens, Richmond
PARTIAL COUNTIES Nassau: That portion of the county that lies West of Seaford Creek and South of the Southern State Parkway.

WAGES
Per hour:
07/01/2023

<table>
<thead>
<tr>
<th>Job</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy &amp; Highway</td>
<td>$59.16</td>
</tr>
<tr>
<td>Carpenter</td>
<td>$59.16</td>
</tr>
</tbody>
</table>

+ 9.79*

*This portion is not subject to overtime premiums.

SUPPLEMENTAL BENEFITS
Per hour worked:

<table>
<thead>
<tr>
<th>Job</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy &amp; Highway</td>
<td>$45.34</td>
</tr>
<tr>
<td>Carpenter</td>
<td>$45.34</td>
</tr>
</tbody>
</table>

OVERTIME PAY
See (B, E2, Q) on OVERTIME PAGE.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE.
Overtime: See (5, 6, 11, 13, 25) on HOLIDAY PAGE.
Paid: for 1st & 2nd yr.
Apprentices See (5, 6, 11, 13, 25)

REGISTERED APPRENTICES
Wage per hour:
One (1) year terms:
Prevailing Wage Rates for 07/01/2023 - 06/30/2024
Last Published on Dec 01 2023

Heavy & Highway

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$25.60</td>
<td>$31.20</td>
<td>$39.58</td>
<td>$47.97</td>
</tr>
<tr>
<td>+5.30*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subject to overtime premiums

Supplemental Benefits:
Per Hour:

All terms
$31.83

8-NYC H/H

Electrician

<table>
<thead>
<tr>
<th>JOB DESCRIPTION</th>
<th>District 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrician</td>
<td></td>
</tr>
<tr>
<td>ENTIRE COUNTIES</td>
<td>Bronx, Kings, New York, Queens, Richmond</td>
</tr>
</tbody>
</table>

WAGES

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>01/01/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Trimmer</td>
<td>$34.21</td>
<td>$35.24</td>
</tr>
<tr>
<td>Ground Person</td>
<td>20.69</td>
<td>20.69</td>
</tr>
</tbody>
</table>

Applies to line clearance, tree work, and right-of-way preparation on all new or existing overhead, electrical, telephone, and CATV lines.

SUPPLEMENTAL BENEFITS

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>04/11/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Trimmer</td>
<td>$12.81</td>
<td>$13.20</td>
</tr>
<tr>
<td>Ground Person</td>
<td>7.75</td>
<td>7.75</td>
</tr>
</tbody>
</table>

OVERTIME PAY

See (B, *H, Q) on OVERTIME PAGE

*Worked performed on Sundays & Holidays outside of 7.00am - 4.00pm shall be paid at double time, in addition to the holiday pay if applicable.

HOLIDAY

HOLIDAY: See (5,6,10,11,15,16,26) on HOLIDAY PAGE.

(An additional floating holiday after four years service)

Overtime: See (5,6,10,11,15,16,26) on HOLIDAY PAGE.

Electrician

<table>
<thead>
<tr>
<th>JOB DESCRIPTION</th>
<th>District 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrician</td>
<td></td>
</tr>
<tr>
<td>ENTIRE COUNTIES</td>
<td>Bronx, Kings, New York, Queens, Richmond</td>
</tr>
</tbody>
</table>

WAGES

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>04/11/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrician</td>
<td>$31.25</td>
<td>$32.00</td>
</tr>
<tr>
<td>Telephone</td>
<td>31.25</td>
<td>32.00</td>
</tr>
</tbody>
</table>

Maintenance and Jobbing-Electrical and teledata work of limited duration and scope, consisting of repairs and/or replacement of electrical and teledata equipment.

- Includes all work necessary to retrofit, service, maintain and repair all kinds of lighting fixtures and local lighting controls and washing and cleaning of foregoing fixtures.

SUPPLEMENTAL BENEFITS

Journeyworker:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>04/11/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$26.55</td>
<td>$27.21</td>
</tr>
</tbody>
</table>
* Applies to overtime hours

**OVERTIME PAY**
See (B, H) on OVERTIME PAGE

**HOLIDAY**
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

### Electrician

**JOB DESCRIPTION** Electrician

**DISTRICT** 9

**ENTIRE COUNTIES**
Bronx, Kings, New York, Queens, Richmond, Westchester

**WAGES**

<table>
<thead>
<tr>
<th>Per hour:</th>
<th>07/01/2023</th>
<th>03/07/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Technician</td>
<td>$36.40</td>
<td>$37.40</td>
</tr>
</tbody>
</table>

Service and Maintenance on Alarm and Security Systems.

Maintenance, repair and /or replacement of defective (or damaged) equipment on, but not limited to, Burglar - Fire - Security - CCTV - Card Access - Life Safety Systems and associated devices. (Whether by service contract of T&M by customer request.)

**SUPPLEMENTAL BENEFITS**

<table>
<thead>
<tr>
<th>Per hour:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Journeyworker:</td>
<td>$21.07</td>
<td>$21.85</td>
</tr>
</tbody>
</table>

**OVERTIME PAY**
See (B, E, Q) on OVERTIME PAGE

**HOLIDAY**
Paid: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

---

#### Electrician Audio/Sound and Temporary Light/Power

|  |  |
|-----------|---|---|
| Electrician | $61.00 | $62.00 |

**Evening (Swing Shift):**

|  |  |
|-----------|---|---|
| Electrician | 71.58 | 72.75 |

**Night (Graveyard Shift):**

|  |  |
|-----------|---|---|
| Electrician | 80.17 | 81.49 |

**Solar-Photovoltaic Systems**

|  |  |
|-----------|---|---|
| Group 1 | 61.00 | 62.00 |

All tasks not listed in Group 2
Group 2 31.25 32.00

D.C portion and associated mechanical equipment related to solar systems, (excluding battery storage and its associated equipment) including work related to Weather Stations and Data Acquisitions/Monitoring Systems on solar photovoltaic systems.

Mounting of PV modules.
Mounting of DC optimizers to back of modules if the installation calls for this equipment.
Mounting of microinverters to back of modules and install trunk cabling on racking if called for.
Module to module connection of PV modules to adjacent modules. If racking manufacturer provides integrated inter-row cable management, install string jumper to complete the string in full in same sub-array.
If racking manufacturer does not provide integrated inter-row cable management, run conduit between rows, bond it and run string jumper to complete string in full in same sub-array.
Installation of weather stations and other weather station relevant sensors as specified.
Installation of data acquisition system (DAS) for PV system monitoring.

SUPPLEMENTAL BENEFITS

Per Hour:

<table>
<thead>
<tr>
<th></th>
<th>$ 63.84</th>
<th>$ 66.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrician</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$ 67.69*</td>
<td>$ 69.91*</td>
</tr>
<tr>
<td>Swing Shift:</td>
<td>72.58</td>
<td>74.96</td>
</tr>
<tr>
<td></td>
<td>77.10*</td>
<td>79.56*</td>
</tr>
<tr>
<td>Graveyard Shift:</td>
<td>79.96</td>
<td>82.54</td>
</tr>
<tr>
<td></td>
<td>85.02*</td>
<td>87.69*</td>
</tr>
<tr>
<td>Temporary Light/Power</td>
<td>28.56</td>
<td>30.33</td>
</tr>
<tr>
<td></td>
<td>31.81*</td>
<td>33.64*</td>
</tr>
<tr>
<td>Group 1:</td>
<td>63.84</td>
<td>66.00</td>
</tr>
<tr>
<td></td>
<td>67.69*</td>
<td>69.91*</td>
</tr>
<tr>
<td>Group 2:</td>
<td>26.55</td>
<td>27.20</td>
</tr>
<tr>
<td></td>
<td>28.52*</td>
<td>29.23*</td>
</tr>
</tbody>
</table>

* Applies when premium (OT) wages are paid.

Temporary Light and Power benefit rate applies for three or less workers.

Reduce benefit rate by 6.2% for any employee who has accumulated wages of $137,700 for the same employer.

OVERTIME PAY

See (A, H) on OVERTIME PAGE
See (B) for Temporary Light and Power

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages Per Hour:

One (1) year terms
First term: 07/01/2023 04/11/2024
0-6 mos. $ 18.00 $ 18.00
7-12 mos. 18.50 18.50
Second term:
0-6 mos. 19.50 19.50
7-12 mos. 20.50 20.50
Third term:
0-6 mos. 21.50 21.50
7-12 mos. 22.50 22.50
Fourth term:
0-6 mos. 23.50 23.50
7-12 mos. 25.50 25.50
Fifth term/MJ:
0-12 mos. 26.75 27.50
13-18 mos. 31.25 32.00

Supplemental Benefits per hour:

One (1) year terms:

<table>
<thead>
<tr>
<th>Term</th>
<th>Regular 0-6 mos.</th>
<th>Overtime 0-6 mos.</th>
<th>Regular 7-12 mos.</th>
<th>Overtime 7-12 mos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>16.43</td>
<td>17.63</td>
<td>17.18</td>
<td>18.38</td>
</tr>
<tr>
<td>Second Term</td>
<td>16.69</td>
<td>17.92</td>
<td>17.44</td>
<td>18.67</td>
</tr>
<tr>
<td>Third Term</td>
<td>17.74</td>
<td>19.10</td>
<td>18.49</td>
<td>19.85</td>
</tr>
<tr>
<td>Fourth Term</td>
<td>18.27</td>
<td>19.70</td>
<td>19.02</td>
<td>20.44</td>
</tr>
<tr>
<td>Fifth Term/MIJ</td>
<td>18.79</td>
<td>20.28</td>
<td>19.54</td>
<td>21.03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term</th>
<th>Regular 0-6 mos.</th>
<th>Overtime 0-6 mos.</th>
<th>Regular 7-12 mos.</th>
<th>Overtime 7-12 mos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sixth Term</td>
<td>19.31</td>
<td>20.87</td>
<td>20.06</td>
<td>21.62</td>
</tr>
<tr>
<td>Seventh Term</td>
<td>20.36</td>
<td>22.05</td>
<td>21.11</td>
<td>22.80</td>
</tr>
<tr>
<td>Eighth Term</td>
<td>24.13</td>
<td>25.82</td>
<td>24.79</td>
<td>26.52</td>
</tr>
<tr>
<td>Ninth Term</td>
<td>26.55</td>
<td>28.52</td>
<td>27.21</td>
<td>29.23</td>
</tr>
</tbody>
</table>

Electrician - Highway and Street Lighting, Traffic Signals and Controls 12/01/2023

JOB DESCRIPTION  Electrician - Highway and Street Lighting, Traffic Signals and Controls  DISTRICT 9

ENTIRE COUNTIES  Bronx, Kings, New York, Queens, Richmond

WAGES  Per Hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>04/18/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electro Pole Electrician</td>
<td>$ 61.00</td>
<td>$ 62.00</td>
</tr>
<tr>
<td>Electro Pole Foundation Installer</td>
<td>46.66</td>
<td>47.66</td>
</tr>
<tr>
<td>Electro Pole Maintainer</td>
<td>40.61</td>
<td>41.61</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL BENEFITS  Per Hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>04/18/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electro Pole Electrician</td>
<td>$ 65.91</td>
<td>$ 68.20</td>
</tr>
<tr>
<td></td>
<td>69.77*</td>
<td>72.12*</td>
</tr>
<tr>
<td>Electro Pole Foundation Installer</td>
<td>50.05</td>
<td>51.68</td>
</tr>
<tr>
<td></td>
<td>53.00*</td>
<td>54.69*</td>
</tr>
<tr>
<td>Electro Pole Maintainer</td>
<td>45.40</td>
<td>47.03</td>
</tr>
<tr>
<td></td>
<td>47.97*</td>
<td>49.66*</td>
</tr>
</tbody>
</table>

*Applies when premium wages are paid

Note: Reduce benefit rate by 6.2% for any employee who has accumulated wages in $137,700 for the same employer.

OVERTIME PAY  See (A, B, E4, F, K) on OVERTIME PAGE
B - Applies to Electro Pole Foundation Installer
E4 - Applies to Electro Pole Maintainer

HOLIDAY  Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE
Elevator Constructor

JOB DESCRIPTION  Elevator Constructor

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

PARTIAL COUNTIES
Rockland: Entire County except for the Township of Stony Point

WAGES
Per hour:

07/01/2023

Elevator Constructor  $ 77.49
Modernization & Service/Repair  $ 60.89

NOTE - The 'Employer Registration' (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30, 2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS
Per Hour:

Elevator Constructor  $ 45.574
Modernization & Service/Repairs  44.412

OVERTIME PAY
Constructor See (D, M, T) on OVERTIME PAGE.

Modern/Service See (B, F, S) on OVERTIME PAGE.

HOLIDAY
Paid: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES PER HOUR:
*Note: 1st, 2nd, 3rd Terms are based on Average wage of Constructor & Modernization.
Terms 4 thru 9 Based on Journeyman's wage of classification Working in.

6 MONTH TERMS:

<table>
<thead>
<tr>
<th>Term</th>
<th>1st Term*</th>
<th>2nd &amp; 3rd Term*</th>
<th>4th &amp; 5th Term</th>
<th>6th &amp; 7th Term</th>
<th>8th &amp; 9th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term</td>
<td>50%</td>
<td>50%</td>
<td>55%</td>
<td>65%</td>
<td>75%</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL BENEFITS
Elevator Constructor

<table>
<thead>
<tr>
<th>Term</th>
<th>1st Term</th>
<th>2nd &amp; 3rd Term</th>
<th>4th &amp; 5th Term</th>
<th>6th &amp; 7th Term</th>
<th>8th &amp; 9th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Term</td>
<td>$ 0.00</td>
<td>36.024</td>
<td>36.943</td>
<td>38.448</td>
<td>39.953</td>
</tr>
</tbody>
</table>

Modernization & Service/Repair

<table>
<thead>
<tr>
<th>Term</th>
<th>1st Term</th>
<th>2nd &amp; 3rd Term</th>
<th>4th &amp; 5th Term</th>
<th>6th &amp; 7th Term</th>
<th>8th &amp; 9th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Term</td>
<td>$ 0.00</td>
<td>35.694</td>
<td>36.525</td>
<td>37.948</td>
<td>39.38</td>
</tr>
</tbody>
</table>
Glazier

JOB DESCRIPTION Glazier

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES
Per hour: 7/01/2023

Glazier & Glass Tinting $ 61.64
*Scaffolding 65.64
Window Film
**Repair & Maintenance 30.76

*Scaffolding includes swing scaffold, mechanical equipment, scissor jacks, man lifts, booms & buckets 30’ or more, but not pipe scaffolding.

**Repair & Maintenance- All repair & maintenance work on a particular building whenever performed, where the total cumulative Repair & Maintenance contract value is under $184,000.

SUPPLEMENTAL BENEFITS
Per hour: 7/01/2023

Glazier & Glass Tinting $ 40.20
Window Film
Repair & Maintenance 23.19

OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE
For ‘Repair & Maintenance’ see (B, B2, I, S) on overtime page.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6, 16, 25) on HOLIDAY PAGE
For ‘Repair & Maintenance’
Paid: See(5, 6, 16, 25)
Overtime: See(5, 6, 16, 25)

REGISTERED APPRENTICES
Wage per hour:
(1) year terms at the following wage rates:
7/01/2023

1st term $ 21.93
2nd term 30.05
3rd term 39.95
4th term 48.97

Supplemental Benefits:
(Per hour)
1st term $ 18.25
2nd term 25.97
3rd term 31.27
4th term 34.32

8-1087 (DC9 NYC)

Insulator - Heat & Frost

JOB DESCRIPTION Insulator - Heat & Frost

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2023

Insulators
Heat & Frost $ 70.51

SUPPLEMENTAL BENEFITS
Per Hour:

- Insulators: $35.76
- Heat & Frost: $35.76

**OVERTIME PAY**
See (B, E, *Q, V) on OVERTIME PAGE
* Triple time for Labor Day (If worked)

**HOLIDAY**
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

**REGISTERED APPRENTICES**
Wages:
1 year terms.

**Wages Per Hour:**

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$28.20</td>
<td>$35.26</td>
<td>$42.31</td>
<td>$49.36</td>
</tr>
</tbody>
</table>

Supplemental Benefits:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$14.30</td>
<td>$17.88</td>
<td>$21.46</td>
<td>$25.03</td>
</tr>
</tbody>
</table>

---

**Ironworker 12/01/2023**

**JOB DESCRIPTION** Ironworker  
**DISTRICT** 9  
**ENTIRE COUNTIES** Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

**WAGES**
Per Hour:  
07/01/2023 01/01/2024 Additional

- Stone Derrickmen Rigger: $72.90 + $1.64
- Stone Handset Derrickman: 70.47 + $1.11

**SUPPLEMENTAL BENEFITS**
Per hour:

- Stone Derrickmen Rigger: $43.10
- Stone Handset Derrickman: 42.84

**OVERTIME PAY**
See (B, D1, *E, Q, **V) on OVERTIME PAGE
*Time and one-half shall be paid for all work on Saturday up to eight (8) hours and double time shall be paid for all work thereafter.
** Benefits same premium as wages on Holidays only

**HOLIDAY**
Paid: See (18) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 25) on HOLIDAY PAGE
Work stops at schedule lunch break with full day's pay.

**REGISTERED APPRENTICES**
Wage per hour:

- Stone Derrickmen Rigger:
<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>$35.90</td>
<td>$51.53</td>
<td>$57.32</td>
<td>$63.11</td>
</tr>
</tbody>
</table>

Supplemental Benefits:

- Per hour:
<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>22.11</td>
<td>32.58</td>
<td>32.58</td>
<td>32.58</td>
</tr>
</tbody>
</table>

Stone Handset:

1/2 year terms at the following hourly wage rate:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Supplemental Benefits:
Per hour:
07/01/2023  22.10  32.46  32.46  32.46

JOB DESCRIPTION  Ironworker
ENTIRE COUNTIES  Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester
WAGES
Per Hour:  07/01/2023
Ornamental  $ 46.90
Chain Link Fence  46.90
Guide Rail  46.90
SUPPLEMENTAL BENEFITS
Per hour:  $ 63.04
Journeyworker:
OVERTIME PAY
See (B, B1, Q, V) on OVERTIME PAGE
HOLIDAY
Paid:  See (1) on HOLIDAY PAGE
Overtime:  See (5, 6, 25) on HOLIDAY PAGE
REGISTERED APPRENTICES
Apprentices Hired after 9/1/18:
1 year terms  07/01/2023
1st Term  $ 21.13
2nd Term  24.77
3rd Term  28.40
4th Term  32.06
Supplemental Benefits per hour:
1st Term  $ 17.90
2nd Term  19.15
3rd Term  20.41
4th Term  21.67

JOB DESCRIPTION  Ironworker
ENTIRE COUNTIES  Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester
WAGES
PER HOUR:
Ironworker:  07/01/2023  01/01/2024  07/01/2024
Structural  $ 57.20  $ 57.70  $ 1.75/Hr.*
Bridges
Machinery
(*)To be allocated at a later date.
SUPPLEMENTAL BENEFITS
PER HOUR PAID:
Journeyman  $ 87.35  $ 88.60
OVERTIME PAY
See (B, B1, Q, *V) on OVERTIME PAGE
*NOTE: Benefits are calculated for every hour paid
HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 18, 19) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES PER HOUR:

6 month terms at the following rate:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd - 6th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>$ 29.73</td>
<td>$ 30.33</td>
<td>$ 30.94</td>
</tr>
<tr>
<td>Rate</td>
<td>$ 29.98</td>
<td>$ 30.58</td>
<td>$ 31.19</td>
</tr>
</tbody>
</table>

Supplemental Benefits
PER HOUR PAID:
All Terms $ 60.69 $ 61.59

Ironworker

JOB DESCRIPTION Ironworker

DISTRICT 4

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

PARTIAL COUNTIES
Rockland: Southern section - south of Convent Road and east of Blue Hills Road.

WAGES
Per hour: 07/01/2023

Reinforcing & Metal Lathing $ 56.95

"Base" Wage $ 55.20
plus $ 1.75

"Base" Wage is used to calculate overtime hours only.

SUPPLEMENTAL BENEFITS
Per hour: $ 42.72

Reinforcing & Metal Lathing

OVERTIME PAY
See (B, E, Q, *X) on OVERTIME PAGE
*Only $23.50 per Hour for non worked hours

Supplemental Benefit Premiums for Overtime Hours worked:

Time & One Half $ 49.47
Double Time $ 56.22

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 13, *18, **19, 25) on HOLIDAY PAGE
*Note: Work performed after first 4 Hours.

REGISTERED APPRENTICES
(1) year terms at the following wage rates:

<table>
<thead>
<tr>
<th></th>
<th>1st term</th>
<th>2nd term</th>
<th>3rd term</th>
<th>4th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage</td>
<td>$ 22.55</td>
<td>$ 28.38</td>
<td>$ 34.68</td>
<td>$ 37.18</td>
</tr>
<tr>
<td>&quot;Base&quot; Wage</td>
<td>$ 21.00</td>
<td>$ 26.80</td>
<td>$ 33.10</td>
<td>$ 35.60</td>
</tr>
<tr>
<td>plus</td>
<td>$ 1.55</td>
<td>$ 1.58</td>
<td>$ 1.58</td>
<td>$ 1.58</td>
</tr>
</tbody>
</table>

"Base" Wage is used to calculate overtime hours ONLY.

SUPPLEMENTAL BENEFITS
Per Hour:

<table>
<thead>
<tr>
<th>Term</th>
<th>1st term</th>
<th>2nd term</th>
<th>3rd term</th>
<th>4th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>18.17</td>
<td>21.34</td>
<td>22.00</td>
<td>22.50</td>
</tr>
</tbody>
</table>


**JOB DESCRIPTION**  Laborer  
**DISTRICT**  9  
**ENTIRE COUNTIES**  Bronx, Kings, New York, Queens, Richmond  

**WAGES**  
Per hour:  
Striper (Highway/streets):  07/01/2023  07/01/2024  
Additional  
Striping-Machine Operator  $ 40.00  $ 3.00  
Striping Thermoplastic  44.00  
Flagger - Traffic Safety*  38.00  

*Note: * Includes but is not limited to: Positioning of cones and directing of traffic using handheld devices. Excludes the Driver/Operator of equipment used in protection of traffic safety.  

**SUPPLEMENTAL BENEFITS**  
Per hour paid:  
Journeyworker  $ 17.27  

**OVERTIME PAY**  
See (B, H) on OVERTIME PAGE  

**HOLIDAY**  
Paid:  See (5, 6, 8, 13) on HOLIDAY PAGE  
Overtime:  See (5, 6, 8, 13) on HOLIDAY PAGE  

**REGISTERED APPRENTICES**  
Wages per hour:  
1st Term (1-2000 hours)  $ 30.86  
2nd Term (2001-4000 hours)  32.50  

Supplemental Benefits per hour:  
All Terms  17.27  


**JOB DESCRIPTION**  Laborer  
**DISTRICT**  9  
**ENTIRE COUNTIES**  Bronx, Kings, New York, Queens, Richmond  

**WAGES**  
Per hour:  
Laborer/Excavation  07/01/2023  07/01/2024  
Additional  
Asbestos and Lead Abatement & Removal, Hazardous Waste Removal  $ 2.30  
(including soil)  $ 44.50  
Basic  44.50  
Flagman  44.50  
Pipe layer  44.50  
*Tree Work, *Landscape  44.50  
*Includes trimming, cutting, planting and/or removal of trees.  **Applies to Heavy & Highway projects  

**SUPPLEMENTAL BENEFITS**  
Per hour:  
Journeyworker  $ 52.23  

---

Prevailing Wage Rates for 07/01/2023 - 06/30/2024  
Last Published on Dec 01 2023  
PRC Number 2023014301 New York County
Note: No payment of Supplemental Benefits is required on paid holidays, when employees do not work.

**OVERTIME PAY**

See (B, E, Q) on OVERTIME PAGE

When an observed holiday falls on a Saturday, work done shall be paid at double time.

**HOLIDAY**

Paid: See (2, 20) on HOLIDAY PAGE

Overtime: See (2, 5, 6, 11, 20) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

Wage per hour:

1000 hour terms at the following hourly wage rate.

<table>
<thead>
<tr>
<th>07/01/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
</tr>
<tr>
<td>2nd</td>
</tr>
<tr>
<td>3rd</td>
</tr>
<tr>
<td>4th</td>
</tr>
</tbody>
</table>

Supplemental Benefits per hour:

All Apprentices 52.23

9-731Ex

**Laborer**

12/01/2023

**JOB DESCRIPTION** Laborer

**DISTRICT** 9

**ENTIRE COUNTIES**

Bronx, Kings, New York, Queens, Richmond

**WAGES**

Per hour:

GROUP 14: Blasters.

GROUP 16: Tunnel workers - including Miners, Drill Runners, Iron Men, Maintenance Men, Conveyor Men, Safety Miners, Riggers, Block Layers, Cement Finishers, Rod Men, Caulkers, Powder Carriers, Miners' Helpers, Chuck Tenders, Track Men, Nippers, Brake Men, Deraile Men, Form Men, Bottom Bell, Top Bell or Signal men, Form Workers, Movers, Concrete Workers, Shaft Men, Tunnel Laborers and Caulkers' Helpers.

GROUP 17: All others including: Powder Watchmen, Top Laborers and Changehouse Attendants.

Wages: (per hour) 07/01/2023

**Laborer (Tunnel)-FREE AIR:**

<table>
<thead>
<tr>
<th>07/01/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 14</td>
</tr>
<tr>
<td>Group 16</td>
</tr>
<tr>
<td>Group 17*</td>
</tr>
</tbody>
</table>

Small Bore Micro Tunnel Machines 80% of rates above

For Repairs on Existing Water Tunnels 90% of rates above

For Repairs of Sewer & Drainage Tunnels 85% of rates above

For Repair & Maintenance of all Subway & Vehicular Tunnels 80% of rates above

*An additional $3.00 per day when using an air spade, jack hammer or pavement breaker.

**SUPPLEMENTAL BENEFITS**

Per hour:

Note: Employer shall pay $10.00 per day for each half mile starting at a point 500 feet from the bottom of the shaft.
GROUP 14  $ 53.97
GROUP 16  51.76
GROUP 17  47.91

Small Bore Micro
Tunnel Machines  80% of rates above
For Repairs on Existing
Water Tunnels  90% of rates above
For Repairs of Sewer &
Drainage Tunnels  85% of rates above
For Repair & Maintenance
of all Subway &
Vehicular Tunnels  80% of rates above

OVERTIME PAY
OVERTIME:  For Laborer (Free Air) See (D, M, R*) on OVERTIME PAGE.
For Repair Categories  See (B, F, R*) on OVERTIME PAGE.
& Micro Tunneling
* Straight time first 8 hours, double time after 8 hours.

HOLIDAY
Paid:  See (5, 6, 9, 11, 12, 15, 16, 25) on HOLIDAY PAGE
Overtime:  See (5, 6, 9, 11, 12, 15, 16, 25) on HOLIDAY PAGE
Good Friday may be exchanged for one of the holidays listed.

9-147Tnl/Free

Laborer - Building  12/01/2023

JOB DESCRIPTION  Laborer - Building
DISTRICT  9

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

WAGES
Per hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>01/01/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Laborer and Mason Tender</td>
<td>$ 43.80*</td>
<td>Additional $ 1.25</td>
</tr>
</tbody>
</table>

*Before calculating premium wage deduct $3.00

SUPPLEMENTAL BENEFITS
Per hour:

Basic Laborer and Mason Tender  $ 29.39

OVERTIME PAY
See (B, B2, E, E2, Q, R) on OVERTIME PAGE

HOLIDAY
Paid:  See (1) on HOLIDAY PAGE
Overtime:  See (5, 6, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage per hour:

1000 hour terms at the following wage rate:

<table>
<thead>
<tr>
<th>Term</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Laborer and Mason Tender 07/01/2023</td>
<td>$ 21.80*</td>
<td>$ 23.55*</td>
<td>$ 25.05*</td>
<td>$ 27.55*</td>
</tr>
</tbody>
</table>

*Before calculating premium wage deduct $0.50

Supplemental Benefits per hour:
Laborer - Building

JOB DESCRIPTION  Laborer - Building  

ENTIRE COUNTIES  Bronx, Kings, New York, Queens, Richmond  

WAGES  
Per hour:  

<table>
<thead>
<tr>
<th>07/01/2023</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Skilled Interior Demolition Laborer:</td>
<td>$ 39.70*</td>
</tr>
<tr>
<td>General Interior Demolition Laborer:</td>
<td>28.89**</td>
</tr>
</tbody>
</table>

* Before calculating overtime wages deduct $1.70  

**General Demolition Laborer performs manual work and work incidental to demolition, such as loading and carting of debris from work site to an area where it can be loaded into trucks for removal. Also performs clean-up of the site when demolition is complete.  

SUPPLEMENTAL BENEFITS  
Per Hour:  

<table>
<thead>
<tr>
<th>07/01/2023</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Skilled Interior Demolition Laborer:</td>
<td>24.84</td>
</tr>
<tr>
<td>General Interior Demolition Laborer:</td>
<td>19.16</td>
</tr>
</tbody>
</table>

OVERTIME PAY  
See (B, B2, I, R) on OVERTIME PAGE  

HOLIDAY  
Paid:  See (1) on HOLIDAY PAGE  
Overtime:  See (5, 6, 25) on HOLIDAY PAGE  

REGISTERED APPRENTICES  
Wage Per Hour:  

<table>
<thead>
<tr>
<th>07/01/2023</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>2nd</td>
</tr>
<tr>
<td>$ 21.80*</td>
<td>$ 23.55*</td>
</tr>
</tbody>
</table>

* Before calculating overtime wages deduct $0.50  

Supplemental Benefits Per Hour:  

All Terms:  10.47  

Laborer - Building

JOB DESCRIPTION  Laborer - Building  

ENTIRE COUNTIES  Bronx, Kings, New York, Queens, Richmond  

WAGES  
Per hour:  

<table>
<thead>
<tr>
<th>07/01/2023</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer:</td>
<td></td>
</tr>
<tr>
<td>Laborer-Concrete (including flag person):</td>
<td>$ 42.53</td>
</tr>
</tbody>
</table>

* This portion is not subjected to overtime premiums.  

SUPPLEMENTAL BENEFITS  
Per Hour:  

<table>
<thead>
<tr>
<th>07/01/2023</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 19.70</td>
<td>$ 8.00**</td>
</tr>
</tbody>
</table>

** This portion subjected to overtime premiums only on codes (E,Q)  

OVERTIME PAY
OVERTIME: See (A,E,Q) on OVERTIME PAGE attached.
See (B,E,Q,) for work below street level to top of foundation.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 13, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:
Terms based on hours listed:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1334</td>
<td>1334-2668</td>
<td>2669-4000</td>
</tr>
<tr>
<td>$18.57</td>
<td>$19.95</td>
<td>$25.68</td>
</tr>
<tr>
<td>+$1.99*</td>
<td>+$6.82*</td>
<td>+$7.30*</td>
</tr>
</tbody>
</table>

* This portion is not subjected to overtime premiums.

Supplemental Benefits:
Per hour:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
</tr>
</thead>
<tbody>
<tr>
<td>$12.20</td>
<td>$16.20</td>
<td>$16.20</td>
</tr>
<tr>
<td>+$2.00*</td>
<td>+$2.45*</td>
<td>+$3.55*</td>
</tr>
</tbody>
</table>

Journeyworker rate applies after 4000 hours
*This portion subjected to same premium as wages.

---

**Laborer - Building**

**JOB DESCRIPTION** Laborer - Building

**DISTRICT** 9

**ENTIRE COUNTIES** Bronx, Kings, New York, Queens, Richmond

**WAGES**
Per hour: 07/01/2023 01/01/2024
Building:
Plasterer Tender and Spray Fireproofing Tender
$43.80* $1.25

* Before calculating overtime wages deduct $3.00.

**SUPPLEMENTAL BENEFITS**
Per hour: Journeyworker $29.39

**OVERTIME PAY**
See (B, B2, E, E2, Q, R) on OVERTIME PAGE

**HOLIDAY**
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**
Wage per hour:

1000 hours terms at the following wage.

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>$21.80*</td>
<td>$23.55*</td>
<td>$25.05*</td>
<td>$27.55*</td>
</tr>
</tbody>
</table>

* Before calculating overtime wages deduct $ 0.50

Supplemental Benefits per hour:

07/01/2023 All Terms: $10.47

---

**Laborer - Building**

**JOB DESCRIPTION** Laborer - Building

**DISTRICT** 4

**ENTIRE COUNTIES**
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

**WAGES**

<table>
<thead>
<tr>
<th>Per Hour:</th>
<th>07/01/2023</th>
<th>01/02/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asbestos, Lead</td>
<td>$ 39.50*</td>
<td>$ 1.50/Hr.</td>
</tr>
<tr>
<td>and Hazardous</td>
<td>to be allocated</td>
<td></td>
</tr>
</tbody>
</table>

Material Abatement Laborer
(Re-Roofing Removal See Roofer)

NOTE: Asbestos removed from Mechanical Systems not to be scrapped
See Asbestos Worker

**SUPPLEMENTAL BENEFITS**

| Per Hour: | $ 19.65 |

**OVERTIME PAY**

See (B, B2, I) on OVERTIME PAGE

*Calculate at $39.50 per hour then add $0.95

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 28) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

1000 hour terms at the following:

<table>
<thead>
<tr>
<th>Per Hour:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st term</td>
</tr>
<tr>
<td>2nd Term</td>
</tr>
<tr>
<td>3rd Term</td>
</tr>
<tr>
<td>4th Term</td>
</tr>
</tbody>
</table>

**SUPPLEMENTAL BENEFIT**

| Per Hour: | $ 14.25 |

**OVERTIME PAY:**

*Calculate at $20.00 per hour then add $0.50
**Calculate at $21.00 per hour then add $0.50
***Calculate at $24.00 per hour then add $0.50
****Calculate at $26.00 per hour then add $0.50

---

**JOB DESCRIPTION** Laborer - Building **DISTRICT 9**

**ENTIRE COUNTIES**
Bronx, Kings, New York, Queens, Richmond

**WAGES**

<table>
<thead>
<tr>
<th>Per hour:</th>
<th>07/01/2023</th>
<th>01/01/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skilled Demolition Laborer:</td>
<td>$ 41.93*</td>
<td>Additional</td>
</tr>
<tr>
<td>General Demolition Laborer:</td>
<td>30.51**</td>
<td>$ 1.25</td>
</tr>
</tbody>
</table>

*Before calculating overtime wages deduct $3.00
**Before calculating overtime wages deduct $2.35

**General Demolition Laborer** performs manual work and work incidental to demolition, such as loading and carting of debris from work site to an area where it can be loaded into trucks for removal. Also performs clean-up of the site when demolition is complete.

**NOTE:** Total Demolition Only: Demolition shall be the complete demolition (wrecking) or dismantling of entire buildings or structures. Also may include the removal of all or any portion of a roof in which structural change is to occur. Structural change is defined as the removal of structural slabs, steel members, concrete members and penetration through the structural slab.
SUPPLEMENTAL BENEFITS
Per hour:
Journeyworker:
- Skilled Demolition Laborer: $28.27
- General Demolition Laborer: 21.33

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage per hour:
(1) year terms at the following wage.

<table>
<thead>
<tr>
<th>Term</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>$21.80*</td>
<td>$23.55*</td>
<td>$25.05*</td>
<td>$27.55*</td>
</tr>
</tbody>
</table>

*Before calculating overtime wages deduct $0.50

Supplemental Benefits per hour:

| All Terms | 07/01/2023 | $10.47 |

Laborer - Concrete & Asphalt Paving

12/01/2023

JOB DESCRIPTION Laborer - Concrete & Asphalt Paving

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

WAGES

Group 2: Production Paving Work: Shoveler, small equipment operator.

Per hour:

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Formsetter</td>
<td>$48.85 + $7.25*</td>
</tr>
<tr>
<td>Asphalt Screeperson/Micro Paver</td>
<td>49.95 + $7.25*</td>
</tr>
<tr>
<td>Asphalt Raker</td>
<td>58.85 + $7.25*</td>
</tr>
<tr>
<td>Group 1</td>
<td>44.98 + $7.25*</td>
</tr>
<tr>
<td>Group 2</td>
<td>44.98 + $7.25*</td>
</tr>
</tbody>
</table>

* This portion is not subjected to overtime premiums.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker: $44.62

Note: No payment of supplemental benefits is required on paid holidays, when employees do not work.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

Note: Saturday premium rate applies from 7:00 am on Saturday to 6:59 am Sunday
Note: Sunday premium rate applies from Sunday 7:00 am to Monday 6:59 am.

HOLIDAY
Paid: See (5, *11, 20) on HOLIDAY PAGE
Overtime: See (21,22)** on HOLIDAY PAGE.

Note: See (5,20) Holiday pay -at the single time pay rate-shall be prorated based on 25% of a day's wages and benefits for each day worked during that calendar week.
**New Year's Day and Christmas Day:** If an employee is performing work on these (2) days the employee will receive the single rate plus 25%.

* Columbus Day shall be an unpaid holiday. In the event work is performed on Columbus Day, wages shall be paid on a double time basis.

Note-When Independence day falls on Saturday, it will be observed on that Saturday, however, when it occurs on a Sunday, it will be observed on the Monday.

**REGISTERED APPRENTICES**
Wage per hour:

2000 hours term:

<table>
<thead>
<tr>
<th></th>
<th>1st term</th>
<th>2nd term</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1999</td>
<td>$ 30.86</td>
<td>$ 32.50</td>
</tr>
<tr>
<td></td>
<td>+ 7.25*</td>
<td>+ 7.25*</td>
</tr>
</tbody>
</table>

* This portion is not subjected to overtime premiums.

Supplemental Benefits per hour:

2000 hours term:

<table>
<thead>
<tr>
<th></th>
<th>1st term</th>
<th>2nd term</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1999</td>
<td>$ 17.15</td>
<td>$ 17.15</td>
</tr>
</tbody>
</table>

9-1010H/H

---

**JOB DESCRIPTION** Laborer - Trac Drill

**DISTRICT** 9

**ENTIRE COUNTIES** Bronx, Kings, New York, Queens, Richmond

**WAGES**
Group 1: Chipper/Jackhammer, Powder Carrier, Hydraulic Chuck tender, Chuck Tender and Nipper, Magazine Keeper

Group 2: Hydraulic Trac Drill

Group 3: Air Trac, Wagon and Quarry bar

Group 4: Blaster

Per Hour: 07/01/2023

<table>
<thead>
<tr>
<th>Group</th>
<th>Per Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$ 44.50</td>
</tr>
<tr>
<td>2</td>
<td>51.85</td>
</tr>
<tr>
<td>3</td>
<td>51.02</td>
</tr>
<tr>
<td>4</td>
<td>57.71</td>
</tr>
</tbody>
</table>

**SUPPLEMENTAL BENEFITS**
Per Hour:

All Classifications 52.23

**OVERTIME PAY**
See (B, E, Q) on OVERTIME PAGE
When an observed holiday falls on a Saturday, work done shall be paid at double time.

**HOLIDAY**
Paid: See (2, 20) on HOLIDAY PAGE
Overtime: See (2, 5, 6, 11, 20) on HOLIDAY PAGE

**REGISTERED APPRENTICES**
Wage per hour:

1000 hour terms at the following hourly wage rate:

07/01/2023

<table>
<thead>
<tr>
<th>Term</th>
<th>Range</th>
<th>Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>0 - 1000</td>
<td>$ 22.25</td>
</tr>
<tr>
<td>2nd</td>
<td>1001-2000</td>
<td>26.70</td>
</tr>
<tr>
<td>3rd</td>
<td>2001-3000</td>
<td>33.38</td>
</tr>
<tr>
<td>4th</td>
<td>3001-4000</td>
<td>40.05</td>
</tr>
</tbody>
</table>
Supplemental Benefits per hour:

All Apprentices 52.23

Laborer - Tunnel 12/01/2023

JOB DESCRIPTION Laborer - Tunnel

ENTIRE COUNTIES Bronx, Kings, New York, Queens, Richmond

WAGES

GROUP 5: Blasters and Mucking Machine Operators

GROUP 6: Tunnel Workers* *(including Miners, Drill Runners, Iron Men, Maintenance Men, Inside Muck Lock Tender, Pumpmen, Electricians, Cement Finishers, Rod Men, Caulkers, Carpenters, Hydraulic Men, Shield Drivers, Monorail Operators, Motor Men, Conveyor Men, Safety Miners, Powder Carriers, Pan Men, Riggers, Miner's Helpers, Chuck Tenders, Track Men, Nippers, Brake Men, Form Workers, Concrete Workers, Tunnel Laborers, Caulker's Helpers), Hose Men, Grout Men, Gravel Men, Derail Men and Cable Men.

GROUP 7: Top Nipper

GROUP 8,9: Outside Man Lock Tender, Outside Muck Lock Tender, Shaft Men, Gauge Tender and Signal Men.

GROUP 10: Powder Watchmen, Top Laborers and Changehouse Attendants.

WAGES: (per hour) 07/01/2023

Laborer (Compressed Air):

GROUP 5 $ 79.02
GROUP 6 76.21
GROUP 7 74.94
GROUP 8,9 73.43
GROUP 10 64.66

Note: For jobs bid before July 1, 2010 employer shall pay $6.00 per day for each one half (1/2) mile or fraction starting from a point 500 feet from the shaft. For all jobs bid after July 1, 2010, said premium shall be $10.00 per day.

SUPPLEMENTAL BENEFITS

SUPPLEMENTAL BENEFITS:

per hour:

GROUP 5 $ 56.19
GROUP 6 54.44
GROUP 7 53.34
GROUP 8,9 52.51
GROUP 10 49.65

OVERTIME PAY

See (D, M, *R) on OVERTIME PAGE

NOTE: Time and one-half to be paid for all overtime repair-maintenance work on existing equipment and facilities.

* Straight time first 8 hours, double time after 8 hours.

HOLIDAY

Paid: See (5, 6, 9, 11, 12, 15, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 9, 11, 12, 15, 16, 25) on HOLIDAY PAGE

Good Friday may be exchanged for one of the holidays listed.

Mason 12/01/2023

JOB DESCRIPTION Mason

ENTIRE COUNTIES Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk
## WAGES

Per Hour: 07/01/2023

- **Brick/Block Layer**: $65.39
- **Base Wage for OT Calculation**: 55.24

## SUPPLEMENTAL BENEFITS

Per Hour:

- **Brick/Block Layer**: $32.60

## OVERTIME PAY

See (A, E, E2, Q) on OVERTIME PAGE

Note: OT Calculated on Base Wage plus $10.15/hr.

## HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 25) on HOLIDAY PAGE

## REGISTERED APPRENTICES

(800 hour) Terms at the following Percentage of Journey workers "Base Wage" plus $5.40/hr.:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>60%</td>
<td>70%</td>
<td>80%</td>
<td>90%</td>
<td></td>
</tr>
</tbody>
</table>

Supplemental Benefits per hour:

- **All Apprentices**: $23.60

## Mason - Building

**JOB DESCRIPTION** Mason - Building

**DISTRICT** 9

**ENTIRE COUNTIES**
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

## WAGES

**Building**

Wages per hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>01/01/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mosaic &amp; Terrazzo Mechanic</td>
<td>$60.65</td>
<td>$61.71</td>
</tr>
<tr>
<td>Additional</td>
<td>$1.06</td>
<td>$1.06</td>
</tr>
<tr>
<td>Mosaic &amp; Terrazzo Finisher</td>
<td>59.04</td>
<td>59.04</td>
</tr>
</tbody>
</table>

## SUPPLEMENTAL BENEFITS

Per hour:

- **Mosaic & Terrazzo Mechanic**: $30.26* + $9.16
- **Mosaic & Terrazzo Finisher**: $30.26* + $9.15

*This portion of benefits subject to same premium rate as shown for overtime wages.

## OVERTIME PAY

See (A, E, Q) on OVERTIME PAGE

07/01/2023- Deduct $7.25 from hourly wages before calculating overtime.

## HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE

Easter Sunday is an observed holiday. Holidays falling on a Saturday will be observed on that Saturday. Holidays falling on a Sunday will be celebrated on the Monday.

## REGISTERED APPRENTICES

Wages Per hour:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-</td>
<td>1501-</td>
<td>3001-</td>
<td>3751-</td>
<td>4501-</td>
<td>5251-</td>
</tr>
</tbody>
</table>
Supplemental Benefits per hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>12/04/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tile Setters</td>
<td>$63.46</td>
<td>$63.98</td>
</tr>
<tr>
<td>Additional</td>
<td>$ 0.73</td>
<td></td>
</tr>
</tbody>
</table>

$26.46*  $26.66*

+ 10.05  + 10.06

*This portion of benefits subject to same premium rate as shown for overtime wages.

OVERTIME PAY
See (B, *E, Q, V) on OVERTIME PAGE
Work beyond 10 hours on Saturday shall be paid at double the hourly wage rate.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage per hour:

750 hour terms at the following wage rate:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
<th>7th</th>
<th>8th</th>
<th>9th</th>
<th>10th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-</td>
<td>750-</td>
<td>1501-</td>
<td>2251-</td>
<td>3001-</td>
<td>3751-</td>
<td>4501-</td>
<td>5251-</td>
<td>6001-</td>
<td>6750-</td>
<td>7000-</td>
</tr>
<tr>
<td>750</td>
<td>1500</td>
<td>2250</td>
<td>3000</td>
<td>3750</td>
<td>4500</td>
<td>5250</td>
<td>6000</td>
<td>6750</td>
<td>7000</td>
<td></td>
</tr>
<tr>
<td>07/01/2023</td>
<td>$21.70</td>
<td>$26.66</td>
<td>$33.75</td>
<td>$38.69</td>
<td>$42.25</td>
<td>$45.70</td>
<td>$49.29</td>
<td>$54.23</td>
<td>$57.09</td>
<td>$61.25</td>
</tr>
<tr>
<td>12/04/2023</td>
<td>$21.96</td>
<td>$26.95</td>
<td>$34.10</td>
<td>$39.08</td>
<td>$42.68</td>
<td>$46.16</td>
<td>$49.79</td>
<td>$54.77</td>
<td>$56.66</td>
<td>$61.90</td>
</tr>
</tbody>
</table>

Supplemental Benefits per hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>12/04/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>$12.55*</td>
<td>$12.55*</td>
</tr>
<tr>
<td>2nd</td>
<td>$12.55*</td>
<td>$12.55*</td>
</tr>
<tr>
<td>3rd</td>
<td>$15.36*</td>
<td>$15.36*</td>
</tr>
<tr>
<td>4th</td>
<td>$15.36*</td>
<td>$15.36*</td>
</tr>
<tr>
<td>5th</td>
<td>$16.36*</td>
<td>$16.36*</td>
</tr>
<tr>
<td>6th</td>
<td>$17.86*</td>
<td>$17.86*</td>
</tr>
<tr>
<td>7th</td>
<td>$18.86*</td>
<td>$18.86*</td>
</tr>
<tr>
<td>8th</td>
<td>$18.86*</td>
<td>$18.86*</td>
</tr>
<tr>
<td>9th</td>
<td>$16.86*</td>
<td>$16.86*</td>
</tr>
<tr>
<td>10th</td>
<td>$22.11*</td>
<td>$22.11*</td>
</tr>
<tr>
<td>+ $.73</td>
<td>+ $.73</td>
<td>+ $.73</td>
</tr>
<tr>
<td>+ $.78</td>
<td>+ $.88</td>
<td>+ $.88</td>
</tr>
<tr>
<td>+ $.88</td>
<td>+ $1.37</td>
<td>+ $1.42</td>
</tr>
<tr>
<td>+ $1.37</td>
<td>+ $1.83</td>
<td>+ $1.88</td>
</tr>
<tr>
<td>+ $1.83</td>
<td>+ $6.03</td>
<td>+ $6.61</td>
</tr>
</tbody>
</table>

*This portion of benefits subject to same premium rate as shown for overtime wages.
JOB DESCRIPTION Mason - Building

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>07/03/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building-Marble Restoration: Marble, Stone &amp;</td>
<td>$47.22</td>
<td>$47.44</td>
</tr>
</tbody>
</table>

Terrazzo Polisher

SUPPLEMENTAL BENEFITS Per Hour:
Journeyworker:

Building-Marble Restoration: Marble, Stone & Polisher $30.29 $30.64

OVERTIME PAY
See (B, *E, Q, V) on OVERTIME PAGE
*ON SATURDAYS, 8TH HOUR AND SUCCESSIVE HOURS PAID AT DOUBLE HOURLY RATE.

HOLIDAY Paid:
See (1) on HOLIDAY PAGE
Overtime:
See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
1ST TERM APPRENTICE GETS PAID FOR ALL OBSERVED HOLIDAYS.

REGISTERED APPRENTICES WAGES per hour:

900 hour term at the following wage:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-</td>
<td>901-</td>
<td>1801-</td>
<td>2701</td>
</tr>
<tr>
<td>900</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$33.04 $37.78 $42.49 $47.22

Supplemental Benefits Per Hour:
27.65 28.52 29.41 30.29

07/03/2023
900 hour term at the following wage:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-</td>
<td>901-</td>
<td>1801-</td>
<td>2701</td>
</tr>
<tr>
<td>900</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$33.19 $37.95 $42.69 $47.44

Supplemental Benefits Per Hour:
27.99 28.86 29.76 30.64

Mason - Building

12/01/2023

JOB DESCRIPTION Mason - Building

ENTIRE COUNTIES
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES Per Hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>07/03/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marble Cutters &amp; Setters</td>
<td>$62.82</td>
<td>$63.12</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL BENEFITS Per Hour:
Journeyworker: $39.03 $39.34
OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage Per Hour:
07/01/2023
750 hour terms at the following wage

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
<th>7th</th>
<th>8th</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-</td>
<td>3001-</td>
<td>3751-</td>
<td>4501-</td>
<td>5251-</td>
<td>6001-</td>
<td>6751-</td>
<td>7500+</td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td>3750</td>
<td>4500</td>
<td>5250</td>
<td>6000</td>
<td>6750</td>
<td>7500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$ 26.42 $ 39.62 $ 42.91 $ 46.22 $ 49.52 $ 53.38 $ 59.67 $ 62.82

Supplemental Benefits per hour:
07/01/2023
07/03/2023
Wage Per Hour:

750 hour terms at the following wage.

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
<th>7th</th>
<th>8th</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-</td>
<td>3001-</td>
<td>3751-</td>
<td>4501-</td>
<td>5251-</td>
<td>6001-</td>
<td>6751-</td>
<td>7500+</td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td>3750</td>
<td>4500</td>
<td>5250</td>
<td>6000</td>
<td>6750</td>
<td>7500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$ 26.60 $ 39.82 $ 43.13 $ 46.45 $ 49.78 $ 53.64 $ 59.95 $ 63.12

Supplemental Benefits Per Hour:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
<th>7th</th>
<th>8th</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-</td>
<td>3001-</td>
<td>3751-</td>
<td>4501-</td>
<td>5251-</td>
<td>6001-</td>
<td>6751-</td>
<td>7500+</td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td>3750</td>
<td>4500</td>
<td>5250</td>
<td>6000</td>
<td>6750</td>
<td>7500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$ 25.54 $ 29.09 $ 29.97 $ 30.84 $ 31.72 $ 36.73 $ 38.48 $ 39.34

9-7/4

Mason - Building 12/01/2023

JOB DESCRIPTION Mason - Building
ENTIRE COUNTIES Bronx, Kings, New York, Queens, Richmond

WAGES
Per hour: 07/01/2023 12/04/2023 06/03/2024
Tile Finisher $ 48.78 $ 49.16 $ 0.60

SUPPLEMENTAL BENEFITS
Per Hour:

$ 23.31* $ 23.15*
+ $ 9.87 + $ 9.88

* This portion of benefits is subject to same premium rate as shown for overtime wages.

OVERTIME PAY
See (A, *E, Q) on OVERTIME PAGE
Double time rate after 10 hours on Saturdays

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

9-7/88-tf

Mason - Building 12/01/2023
JOB DESCRIPTION  Mason - Building

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per hour: 07/01/2023 07/03/2023
Marble, Stone, Maintenance Finishers: $ 27.26 $ 27.44

Note 1: An additional $2.00 per hour for time spent grinding floor using "60 grit" and below.
Note 2: Flaming equipment operator shall be paid an additional $25.00 per day.

SUPPLEMENTAL BENEFITS
Per Hour:
Marble, Stone Maintenance Finishers: $ 14.97 $ 15.20

OVERTIME PAY
See (B, *E, Q, V) on OVERTIME PAGE
*Double hourly rate after 8 hours on Saturday

HOLIDAY
Paid: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
1st term apprentice gets paid for all observed holidays.

REGISTERED APPRENTICES
WAGES per hour:

<table>
<thead>
<tr>
<th>Range</th>
<th>07/01/2023</th>
<th>07/03/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-750</td>
<td>$ 21.89</td>
<td>$ 22.04</td>
</tr>
<tr>
<td>751-1500</td>
<td>22.60</td>
<td>22.75</td>
</tr>
<tr>
<td>1501-2250</td>
<td>23.32</td>
<td>23.48</td>
</tr>
<tr>
<td>2251-3000</td>
<td>24.04</td>
<td>24.20</td>
</tr>
<tr>
<td>3001-3750</td>
<td>25.11</td>
<td>25.27</td>
</tr>
<tr>
<td>3751-4500</td>
<td>26.54</td>
<td>26.72</td>
</tr>
<tr>
<td>4501+</td>
<td>27.26</td>
<td>27.44</td>
</tr>
</tbody>
</table>

Supplemental Benefits:
Per hour:

<table>
<thead>
<tr>
<th>Range</th>
<th>07/01/2023</th>
<th>07/03/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-750</td>
<td>12.03</td>
<td>$ 12.24</td>
</tr>
<tr>
<td>751-1500</td>
<td>12.43</td>
<td>$ 12.64</td>
</tr>
<tr>
<td>1501-2250</td>
<td>12.82</td>
<td>$ 13.03</td>
</tr>
<tr>
<td>2251-3000</td>
<td>13.21</td>
<td>$ 13.42</td>
</tr>
<tr>
<td>3001-3750</td>
<td>13.80</td>
<td>$ 14.02</td>
</tr>
<tr>
<td>3751-4500</td>
<td>14.58</td>
<td>$ 14.80</td>
</tr>
<tr>
<td>4501+</td>
<td>14.97</td>
<td>$ 15.20</td>
</tr>
</tbody>
</table>

Mason - Building / Heavy&Highway  12/01/2023

JOB DESCRIPTION  Mason - Building / Heavy&Highway

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES
Per hour: 07/01/2023 07/03/2023 01/01/2024
Marble-Finisher $ 49.32 $ 49.65 Additional $ 0.53

SUPPLEMENTAL BENEFITS
Journeyworker:
Per hour
Marble- Finisher $ 36.62 $ 36.67

OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE

Page 49
Work beyond 8 hours on a Saturday shall be paid at double the rate.

**HOLIDAY**

Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE

When an observed holiday falls on a Sunday, it will be observed the next day.

---

**Mason - Building / Heavy&Highway** 12/01/2023

**JOB DESCRIPTION** Mason - Building / Heavy&Highway

**ENTIRE COUNTIES**
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

**WAGES**

Per Hour: 07/01/2023

Cement Mason $ 53.77

**SUPPLEMENTAL BENEFITS**

Per Hour:

Cement Mason $ 34.16

1.5 X overtime rate $ 61.70

2 X overtime rate $ 68.32

**OVERTIME PAY**

See (B1, Q) on OVERTIME PAGE

**HOLIDAY**

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 11, 13, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**

( 1 ) year terms at the following Percentage of Journeyworkers Wage.

1st Term $ 19.92
2nd Term $ 24.82
3rd Term $ 30.22

Supplement Benefits per hour paid:

<table>
<thead>
<tr>
<th>Term</th>
<th>1.5X OT</th>
<th>2X OT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Term</td>
<td>$ 14.36</td>
<td>$ 21.55</td>
</tr>
<tr>
<td>2nd Term</td>
<td>$ 14.66</td>
<td>$ 22.00</td>
</tr>
<tr>
<td>3rd Term</td>
<td>$ 14.77</td>
<td>$ 22.16</td>
</tr>
</tbody>
</table>

4-780

---

**Mason - Building / Heavy&Highway** 12/01/2023

**JOB DESCRIPTION** Mason - Building / Heavy&Highway

**ENTIRE COUNTIES**
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

**WAGES**

NOTE: Shall include but not limited to Precast concrete slabs (London Walks) Marble and Granite pavers 2'x 2' or larger.

Per Hour:

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>05/01/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone Setter</td>
<td>$ 68.45</td>
<td>$ 81.77</td>
</tr>
<tr>
<td>Base Rate</td>
<td>52.76</td>
<td>52.76</td>
</tr>
<tr>
<td>Stone Tender</td>
<td>51.82</td>
<td>51.82</td>
</tr>
<tr>
<td>Base Rate</td>
<td>44.54</td>
<td>44.54</td>
</tr>
</tbody>
</table>

Additional $ 3.32*

(*)To be allocated at a later date.

**SUPPLEMENTAL BENEFITS**

Per Hour:

Stone Setter $ 40.78

Stone Tender 23.15

**OVERTIME PAY**

See (*C, **E, Q) on OVERTIME PAGE
Base Rates are used to calculate Overtime Premiums then adding in:
$15.69/Hr. for Stone Setter and $7.28/Hr. for Stone Tender
* On weekdays the eighth (8th) and ninth (9th) hours are time and one-half all work thereafter is paid at double the hourly rate.
** The first nine (9) hours on Saturday is paid at time and one-half all work thereafter is paid at double the hourly rate.

HOLIDAY
Paid: See (*18) on HOLIDAY PAGE
Overtime: See (5, 6, 10) on HOLIDAY PAGE
Paid: *Must work first 1/2 of day

REGISTERED APPRENTICES
Per Hour:
Stone Setter(800 hour) terms at the following percentage of Stone Setters Base wage rate per hour plus $7.33:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>60%</td>
<td>70%</td>
<td>80%</td>
<td>90%</td>
<td>100%</td>
</tr>
</tbody>
</table>

Supplemental Benefits:
All Apprentices $ 25.50

Mason - Heavy & Highway 12/01/2023

JOB DESCRIPTION Mason - Heavy & Highway

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2023
Pointer, Caulkers & Cleaners $ 62.19

SUPPLEMENTAL BENEFITS
Per Hour:
Pointer, Cleaners & Caulkers $ 30.65

OVERTIME PAY
See (B, E2, H) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:
One (1) year terms at the following wage rates.

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 31.48</td>
<td>$ 35.54</td>
<td>$ 41.14</td>
<td>$ 49.50</td>
</tr>
</tbody>
</table>

Apprentices Supplemental Benefits:
(per hour paid)
$ 15.30 $ 20.00 $ 23.75 $ 24.75

Operating Engineer - Building 12/01/2023

JOB DESCRIPTION Operating Engineer - Building

ENTIRE COUNTIES
Bronx, Kings, New York, Putnam, Queens, Richmond, Westchester

PARTIAL COUNTIES
Dutchess: that part of Dutchess County lying south of the North City Line of the City of Poughkeepsie.

WAGES
NOTE: Construction surveying
Party Chief--One who directs a survey party
Instrument Man--One who runs the instrument and assists Party Chief.
Rodman--One who holds the rod and assists the Survey Crew

Wages:(Per Hour) 07/01/2023

Building Construction:

Party Chief $ 77.39
Instrument Man 61.25
Rodman 41.39

Steel Erection:

Party Chief 80.16
Instrument Man 63.60
Rodman 44.23

Heavy Construction-NYC counties only:
(Foundation, Excavation.)

Party Chief 85.74
Instrument man 64.40
Rodman 54.90

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2023

Building Construction $ 28.04* +$ 7.65
Steel Erection 28.64* +$ 7.65
Heavy Construction 28.85* +$ 7.64

* This portion subject to same premium as wages

Non-Worked Holiday Supplemental Benefit:

21.19

OVERTIME PAY

See (A, B, E, O) on OVERTIME PAGE

Code "A" applies to Building Construction and has double the rate after 7 hours on Saturdays.
Code "B" applies to Heavy Construction and Steel Erection and had double the rate after 8 hours on Saturdays.

HOLIDAY

Paid: See (5, 6, 9, 11, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 9, 11, 15, 16, 25) on HOLIDAY PAGE

Operating Engineer - Building, Maintenance, Steel Erection & Heavy Construction 12/01/2023

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

WAGES

STEEL ERECTION:

Group 1: Derrick, travelers, tower, crawler tower & climbing cranes
Group 2: Oiler (Truck Crane)
Group 3: Oiler (Crawler Crane)

BUILDING CONSTRUCTION:
Group 1: Installing, repairing, maintaining, dismantling of all equipment including Steel cutting & bending machines, mechanical heaters, mine hoists, climbing cranes, tower cranes, Linden Peine, Lorain, Liebherr, Mannes and machines of a similar nature; Well Point system, Deep Well pumps, Concrete mixers with loading devices, Concrete plants, motor generators (When used for temporary power and lights (Driving maintenance trucks and mounted-welded machines)-All Pumps (excluding River Cofferdam Pumps and Well Point Pumps), Motorized Concrete Buggies (When three or more are on job site), Skid-Steer and similar machines

Group 2: Maintenance of: Pumps, Generators, Mixers, Heaters

Group 3: Oilers of all gasoline, electric, diesel or air operated Gradalls; Concrete Pumps, Overhead Cranes in Power Houses, Assist in oiling, greasing and repairing of all machines, including: Driving Truck Cranes, Driving and operating Fuel and Grease Trucks, Cherry Pickers (Hydraulic Cranes) over 70,000 GVW and machines of a similar nature

Group 4: Oiler on Crawler Cranes, Backhoes, Trenching Machines, Gunite Machines, Compressors (3 or more in battery)

Group 5: Maintenance on Radiant Mechanical Heaters

HEAVY CONSTRUCTION (Excavation, Foundations, etc)

Group 1: Maintenance of: Generators, Light Towers

Group 2: Maintenance of: Pumps, Mixers including mudsucking

Group 3: Base Mounted Tower Cranes

Group 4: Installing, repairing, maintaining, dismantling (of all equipment including Steel cutting & Bending machines, Fusion Coupling Machines, Vermeer Trenching machines, on-site crushing plant, mechanical heaters (1 through 7), Mine hoists, Tower Cranes, Linden Peine, Lorrain, Lebherr, Mannes or machines of a similar nature, Wellpoints)-Driving maintenance trucks and truck mounted welding machines, burning, welding-operating of accumulator for shield-driven tunnels, in addition to the performance of other duties: Handling, installation, jointing, coupling of all permanent steel and plastic pipe. RIDE UPON MOLES-tunnel boring machines-MICRO TUNNELING SYSTEMS, All temporary pipefitting; When three or more motorized concrete buggies (Ride type) are utilized on the jobsite they shall be serviced, maintained and repaired by the maintenance engineer. The Operating Engineer on autogrades (C.M.I.) is to be assisted by the maintenance engineer who shall in addition perform other duties.

WAGES:
Per hour: 07/01/2023

Steel Erection:
Group 1 $ 78.26
Group 2 74.05
Group 3 57.92

Building Construction:
Group 1 $ 73.54
Group 2 58.49
Group 3 70.22
Group 4 53.75
Group 5 47.20

Heavy Construction:
Group 1 $ 56.10
Group 2 57.38
Group 3 105.22
Group 4 81.67

SUPPLEMENTAL BENEFITS
Per Hour: 07/01/2023

Building Construction $ 29.40* plus $7.40
Steel Erection & Heavy 29.90* plus $7.40

* This portion of benefits subject to same premium as wages.

Non-Worked Holiday Supplemental Benefits: 23.47

OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 9, 11, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 9, 11, 15, 16, 25) on HOLIDAY PAGE
REGISTERED APPRENTICES

Wages Per Hour:
(1) year terms at the following wage rates:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>$37.28</td>
<td>$44.23</td>
<td>$47.70</td>
<td>$51.17</td>
</tr>
</tbody>
</table>

Supplemental Benefits:
Per Hour:
All Terms $15.65* plus 7.40

* This portion of benefits subject to same OT premium as wages.

Operating Engineer - Building / Heavy&Highway 12/01/2023

JOB DESCRIPTION Operating Engineer - Building / Heavy&Highway

DISTRICT 9

ENTIRE COUNTIES Bronx, Kings, New York, Queens, Richmond

WAGES

EQUIPMENT COVERED: Jet-Rodder/Vacuum Truck, Flusher, Sewer Rodder, Stetco Hoist and similar, Sewer Winch/Tugger Hoist and similar, Vacall/Vactor, Closed Circuit Television Inspection Equipment, Chemical Grouting Equipment and similar, John Beame, Meyers and similar.

Per Hour: 07/01/2023
Maintenance Engineer $81.67 (Sewer Systems)

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2023
Journeyman 29.90*
plus $7.40

*This portion of benefits subject to same premium as wages.

Non-Worked Holiday Supplemental Benefits: 23.94

OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 7, 11, 16) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 11, 16) on HOLIDAY PAGE

REGISTERED APPRENTICES

Per Hour:
(1) year terms at the following wage rates:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>$37.28</td>
<td>$44.23</td>
<td>$47.70</td>
<td>$51.17</td>
</tr>
</tbody>
</table>

Supplemental Benefits:
Per Hour:
All Apprentices: $15.65* plus $7.40

* This portion of benefits subject to the same premium as overtime wages.
Well Driller $ 40.63 $ 41.85
Well Driller Helper 34.17 $ 36.26

Hazardous Waste Differential Added to Hourly Wage:
Level A $ 3.00
Level B 2.00
Level C 1.00

Monitoring Well Work Add to Hourly Wage:
Level A $ 3.00
Level B 2.00

SUPPLEMENTAL BENEFITS Per Hour:
Well Driller 10% of straight 
& Helper time rate plus $ 13.50

Additional $ 4.25/Hr. for Premium Time Hours Worked

OVERTIME PAY
See (B2, P, S) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 16, 23) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 23) on HOLIDAY PAGE

REGISTERED APPRENTICES
Apprentices at 12 Month Terms

Wages Per Hour:
1st Term $ 28.00
2nd Term 29.00
3rd Term 30.00

SUPPLEMENTAL BENEFITS Per Hour:
All Terms 10% of Wage + $ 13.50

Additional $ 4.25/Hr. for premium time hours worked.

Operating Engineer - Building & Steel Erection 12/01/2023

JOB DESCRIPTION Operating Engineer - Building & Steel Erection
ENTIRE COUNTIES Bronx, Kings, New York, Queens, Richmond

WAGES Per Hour: 07/01/2023
STEEL ERECTION:
Three Drum Derricks $ 104.60
Cranes, Two Drum Derricks, Hydraulic Cranes & Fork Lifts,
  Boom Trucks 100.81
Compressors, Welding Machines 63.21
Compressors 60.56
(not combined with welding machines)

BUILDING CONSTRUCTION:
Cranes, Stone Derrick, Boom Trucks, Hydraulic Cranes,
  101.22
Double Drum 96.01
4 Pole Hoists and Single
  Drum Hoists 87.63
Fork Lifts, Plaster (Platform Machine) Plaster Bucket, Concrete Pumps and all other equipment used for hoisting 80.39

*House Cars and Rack & Pinion 71.20
*House Cars (New Projects) 58.32
Erecting and dismantling Cranes 88.49

Compressors, Welding Machines (Cutting Concrete-Tank Work), Paint Spraying, Sand Blasting, Pumps (With the exclusion of concrete pumps), House Car (Settlement basis only), All Engines irrespective of power (Power-Vac) used to drive auxiliary equipment Air, Hydraulic, etc., Boilers, Jacking System 62.05

**APPLICABLE TO ALL CATEGORIES:**
CRANES: Crawler Or Truck

| 100’ to 149’ Boom | $ 1.75/hr |
| 150’ to 249’ "   | $ 2.00/hr |
| 250’ to 349’ "   | $ 2.25/hr |
| 350’ to 450’ "   | $ 2.75/hr |
| Tower Crane       | $ 2.00/hr |

**SUPPLEMENTAL BENEFITS**

Per Hour: **07/01/2023**

| All Operator Classes | $ 25.40*  |
|                      | plus $ 6.20 |

* This portion of the benefits is subject to the same premium as shown for overtime wages.

**OVERTIME PAY**

See (*B, **C, ***D, O) on OVERTIME PAGE

*Applies to House Cars and Rack & Pinion after 8 hours worked in a day, Saturday, Sunday and Holidays
**Applies to Building Construction category
***Applies to Steel Erection

**HOLIDAY**

Paid: See (5, 6, 7, 8, 11, 12, 16, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 8, 11, 12, 16, 26) on HOLIDAY PAGE

Codes 8 and 12 apply ONLY to Steel Erection
Code 16 applies ONLY to Building Construction

**REGISTERED APPRENTICES**

Wage Per Hour:

Apprentices (1) year terms at the following rates:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>$ 43.95</td>
<td>$ 53.21</td>
</tr>
</tbody>
</table>

Supplemental Benefits Per Hour:

| 07/01/2023 | $ 14.90* |
|            | plus $ 6.20 |

* This portion of benefits subject to the same premium as shown for overtime wages.

**Operating Engineer - Heavy Construction 1**

<table>
<thead>
<tr>
<th>JOB DESCRIPTION</th>
<th>Operating Engineer - Heavy Construction 1</th>
<th>DISTRICT 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTIRE COUNTIES</td>
<td>Bronx, Kings, New York, Queens, Richmond</td>
<td></td>
</tr>
<tr>
<td>WAGES</td>
<td>(For Groups 23 - 28, see Operating Engineer - Heavy Construction 2)</td>
<td></td>
</tr>
<tr>
<td>Group 1: Tower Crane/Climbing Crane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Group 2: Backhoes (Including all track and rubber tire backhoes over 37,000 lbs), Power Shovels, Steel Erection: Hydraulic Clam Shells, Moles and machines of a similar nature
Group 3: Mine Hoists, Cranes, etc, used as Mine Hoists
Group 4: Gradalls, Keystones, Cranes (With digging buckets), Bridge Cranes, Trenching Machines, Vermeer Cutter and machines of a similar nature
Group 5: Pile Drivers and Rigs (Employing Dock-Builders Foreman), Derrick Boats, Tunnel Shovels,
Group 6: All Drills and machines of a similar nature
Group 7: Back-Filling Machines and Cranes, Mucking Machines, Dual Drum Pavers
Group 8: Mixers (Concrete with loading attachment), Concrete Pavers, Cableways, Land Derricks, Power House (Low pressure units)
Group 9: Concrete Pumps, Concrete Plant, Stone Crushers, Double Drum Hoists, Power Houses (Other than above)
Group 10: Concrete Mixer
Group 11: Elevators
Group 12: Concrete Breaking Machines, Single Drum Hoists, Load Masters, Locomotives and Dinkies (Over 10 tons), Hydraulic Crane—Second Engineer
Group 13: On-Site Concrete Plant Engineers, On-Site Asphalt Plant Engineer and Vibratory Console
Group 14: Barrier Mover, Barrier Transport and machines of a similar nature
Group 15: Compressors (Portable, 3 or more), Truck Compressor (Engineer Driver), Tugger Machines, Well Point Pumps, Chum Drill
Group 16: Boilers (High pressure), Compressors, Pumps (River Cofferdam) and Welding Machines (except where arc is operated by another Operating Engineer) Push Button Machines, All Engines, irrespective of power (Power Pac) used to drive auxiliary equipment, Air, Hydraulic, etc.
Group 17: Utility-Horizontal Boring Rig
Group 18: Utility Compressors
Group 19: Paving-Asphalt Spreader, Autogrades (C.M.I.), Roto-Mill
Group 20: Paving-Asphalt Roller
Group 21 Paving-Asphalt Plant
Group 22: Roller (non paving, all sizes)

WAGES:(per hour) 07/01/2023

<table>
<thead>
<tr>
<th>Group</th>
<th>Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$120.29</td>
</tr>
<tr>
<td>2</td>
<td>100.67</td>
</tr>
<tr>
<td>3</td>
<td>103.65</td>
</tr>
<tr>
<td>4</td>
<td>101.34</td>
</tr>
<tr>
<td>5</td>
<td>99.50</td>
</tr>
<tr>
<td>6</td>
<td>95.86</td>
</tr>
<tr>
<td>7</td>
<td>97.51</td>
</tr>
<tr>
<td>8</td>
<td>94.93</td>
</tr>
<tr>
<td>9</td>
<td>93.11</td>
</tr>
<tr>
<td>10</td>
<td>89.36</td>
</tr>
<tr>
<td>11</td>
<td>84.03</td>
</tr>
<tr>
<td>12</td>
<td>85.71</td>
</tr>
<tr>
<td>13</td>
<td>86.28</td>
</tr>
<tr>
<td>14</td>
<td>78.25</td>
</tr>
<tr>
<td>15</td>
<td>67.08</td>
</tr>
<tr>
<td>16</td>
<td>62.93</td>
</tr>
<tr>
<td>17</td>
<td>90.70</td>
</tr>
<tr>
<td>18</td>
<td>62.57</td>
</tr>
<tr>
<td>19</td>
<td>94.93</td>
</tr>
<tr>
<td>20</td>
<td>92.71</td>
</tr>
<tr>
<td>21</td>
<td>79.64</td>
</tr>
<tr>
<td>22</td>
<td>92.71</td>
</tr>
</tbody>
</table>

Cranes: Crawler or Truck

<table>
<thead>
<tr>
<th>Height Range</th>
<th>Additional Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>100' to 149'</td>
<td>$0.50 per hour additional to above Crane Rates</td>
</tr>
<tr>
<td>150' to 249'</td>
<td>$0.75 per hour additional to above Crane Rates</td>
</tr>
<tr>
<td>250' to 349'</td>
<td>$1.00 per hour additional to above crane Rates</td>
</tr>
<tr>
<td>350' to 450'</td>
<td>$1.50 per hour additional to above crane Rates</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL BENEFITS

Per Hour:
Groups 1-22  
Regular Time  
$25.40* plus $6.20  

* This portion of benefits subject to the same premium as shown for wages.

Non-Worked Holiday Supplemental Benefits:

$19.95

OVERTIME PAY
REGISTERED APPRENTICES
Per Hour:
(1) year terms at the following wage rates:

Groups 1-22

1st 2nd 3rd
43.95 53.21 62.47

Supplemental Benefits:

Groups 1-22
Regular Time $14.90* plus $6.20

* This portion of benefits is subject to the SAME PREMIUM as shown for overtime wages

Operating Engineer - Heavy Construction 2

JOB DESCRIPTION Operating Engineer - Heavy Construction 2

ENTIRE COUNTIES Bronx, Kings, New York, Queens, Richmond

WAGES
(For Groups 1 - 22, see Operating Engineer - Heavy Construction 1)

Group 23: Cherry Picker (Over 20 tons), Loader (Over 6 yards)

Group 24: Backhoes and Loaders (Up to 37,000lbs), Bulldozers, Scrapers, Turn-A-Pulls, Tugger Hoists, Tractors, Hysters, Roustabout, Cranes, Conveyors, Ballast Regulators (Ride On), Track Removal Machine or similar, Motor Graders, Locomotives (10 tons and under), Curb & Gutter Pavers and machines of a similar nature

Group 25: Post Hole Digger, Ditch Winch, Road Finishing Machines, Rollers (5 tons and under, Dual Purpose Trucks, Forklifts, Dempsey Dumpsters, Fireman

Group 26: Service Engineer (Gradalls, Concrete Pumps, Cold Planers Grader)

Group 27: Service Mechanic (Shovels, Draglines, Crawler Cranes, Backhoes, Trenching Machines, Compressors (3 or more in battery)

Group 28: Steam Equipment Operator (Water rigs, steam shovels, power boilers, derrick boats)

WAGES:(per hour) 07/01/2023

Group 23 $84.34
Group 24 82.03
Group 25 78.16
Group 26 74.26
Group 27 53.38
Group 28 78.16

Cranes: Crawler or Truck
100' to 149' $0.50 per hour additional to above Crane Rates
150' to 249' $0.75 per hour additional to above Crane Rates
250' to 349' $1.00 per hour additional to above crane Rates
350' to 450' $1.50 per hour additional to above crane Rates

SUPPLEMENTAL BENEFITS
Per Hour:
Groups 23-28
Regular Time 29.90* plus $7.40

* This portion of benefits subject to the same premium as shown for wages.

Non-Worked Holiday Supplemental Benefits: 23.47
OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 7, 11, 16) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 11, 16) on HOLIDAY PAGE

REGISTERED APPRENTICES
Per Hour:
(1) year terms at the following wage rates:

<table>
<thead>
<tr>
<th>Groups 23-28</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>$37.28</td>
<td>$44.23</td>
<td>$47.70</td>
<td>$51.17</td>
</tr>
</tbody>
</table>

Supplemental Benefits:

Regular Time $15.65* plus $7.40

* This portion of benefits subject to same OT premium as wages.

9-15 HC

Operating Engineer - Marine Dredging

JOB DESCRIPTION Operating Engineer - Marine Dredging

DISTRICT 4

ENTIRE COUNTIES
Albany, Bronx, Cayuga, Clinton, Columbia, Dutchess, Essex, Franklin, Greene, Jefferson, Kings, Monroe, Nassau, New York, Orange, Oswego, Putnam, Queens, Rensselaer, Richmond, Rockland, St. Lawrence, Suffolk, Ulster, Washington, Wayne, Westchester

WAGES
These wages do not apply to Operating Engineers on land based construction projects. For those projects, please see the Operating Engineer Heavy/Highway Rates. The wage rates below for all equipment and operators are only for marine dredging work in navigable waters found in the counties listed above.

<table>
<thead>
<tr>
<th>Per Hour:</th>
<th>07/01/2023</th>
<th>10/01/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS A1</td>
<td>$43.94</td>
<td>$45.26</td>
</tr>
<tr>
<td>Deck Captain, Leverman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Dredge Operator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licensed Tug Operator 1000HP or more.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS A2</td>
<td>39.16</td>
<td>40.33</td>
</tr>
<tr>
<td>Crane Operator (360 swing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer, Front Loader</td>
<td>To conform to Operating Engineer</td>
<td></td>
</tr>
<tr>
<td>Operator on Land</td>
<td>Prevailing Wage in locality where work</td>
<td></td>
</tr>
<tr>
<td>is being performed including benefits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS B1</td>
<td>38.00</td>
<td>39.14</td>
</tr>
<tr>
<td>Derrick Operator (180 swing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spider/Spill Barge Operator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator II, Fill Placer, Engineer, Chief Mate, Electrician, Chief Welder, Maintenance Engineer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licensed Boat, Crew Boat Operator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS B2</td>
<td>35.77</td>
<td>36.84</td>
</tr>
<tr>
<td>Certified Welder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS C1</td>
<td>34.79</td>
<td>35.83</td>
</tr>
<tr>
<td>Drag Barge Operator, Steward, Mate, Assistant Fill Placer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS C2</td>
<td>33.67</td>
<td>34.68</td>
</tr>
<tr>
<td>Boat Operator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS D</td>
<td>27.97</td>
<td>28.81</td>
</tr>
<tr>
<td>Shoreman, Deckhand, Oiler, Rodman, Scowman, Cook, Messman, Porter/Janitor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Prevailing Wage Rates for 07/01/2023 - 06/30/2024 Published by the New York State Department of Labor
Last Published on Dec 01 2023 PRC Number 2023014301 New York County
SUPPLEMENTAL BENEFITS
Per Hour:
THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

All Classes A & B
- $11.85 plus 6% of straight time wage, Overtime hours add $0.63
- $12.00 plus 6% of straight time wage, Overtime hours add $0.63

All Class C
- $11.60 plus 6% of straight time wage, Overtime hours add $0.50
- $11.75 plus 6% of straight time wage, Overtime hours add $0.50

All Class D
- $11.35 plus 6% of straight time wage, Overtime hours add $0.38
- $11.60 plus 6% of straight time wage, Overtime hours add $0.50

OVERTIME PAY
See (B2, F, R) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 26) on HOLIDAY PAGE

Operating Engineer - Survey Crew - Consulting Engineer 12/01/2023

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

PARTIAL COUNTIES
Dutchess: That part in Duchess County lying South of the North City line of Poughkeepsie.

WAGES
Feasibility and preliminary design surveying, any line and grade surveying for inspection or supervision of construction.

Per hour: 07/01/2023
Survey Classifications
- Party Chief $47.15
- Instrument Man 39.30
- Rodman 34.35

SUPPLEMENTAL BENEFITS
Per Hour:
All Crew Members: $23.15

OVERTIME PAY
OVERTIME: See (B, E*, Q, V) ON OVERTIME PAGE.
*Double-time paid on the 9th hour on Saturday.

HOLIDAY
Paid: See (5, 6, 7, 11, 16) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 11, 16) on HOLIDAY PAGE

Painter 12/01/2023

JOB DESCRIPTION Painter

ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Suffolk, Westchester

WAGES
Per hour: 07/01/2023

Brush $51.70*
Abatement/Removal of lead based or lead containing paint on materials to be repainted.

Spray & Scaffold $54.70*
Fire Escape 54.70*
Decorator 54.70*
Paperhanger/Wall Coverer 54.48*

*Subtract $0.10 to calculate premium rate.

SUPPLEMENTAL BENEFITS

Per hour:

Paperhanger $34.60
All others 32.73
Premium 36.70**

**Applies only to "All others" category, not paperhanger journeyworker.

OVERTIME PAY
See (A, H) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
One (1) year terms at the following wage rate.

Per hour: 07/01/2023

Appr 1st term... $19.95*
Appr 2nd term... 25.56*
Appr 3rd term... 31.05*
Appr 4th term... 41.62*

*Subtract $0.10 to calculate premium rate.

Supplemental benefits:
Per Hour:

Appr 1st term... $16.06
Appr 2nd term... 19.95
Appr 3rd term... 23.02
Appr 4th term... 29.16

JOBS DESCRIPTION Painter

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

PARTIAL COUNTIES
Nassau: Atlantic Beach, Ceaderhurst, East Rockaway, Hewlett, Hewlett Bay, Hewlett Neck, Hewlett Park, Inwood, Lawrence, Lido Beach, Long Beach, parts of Lynbrook, parts of Oceanside, parts of Valley Stream, and Woodmere. Starting on South side of Sunrise Hwy in Valley Stream running east to Windsor and Rockaway Ave, Rockville is the boundary line up to Lawson Blvd, turning right going west all the above territory. Starting at Union Turnpike & Lakeville Rd going north to northern Blvd. the west side of Lakeville Rd to Northern Blvd. At Northern Blvd doing east the district north of Northern Blvd to Port Washington Blvd. West of Port Washington Blvd to St. Francis Hospital then north of first traffic light to Port Washington & Sands Point, Manor Haven, & Harbour Acres.

WAGES
Per hour: 07/01/2023
Drywall Taper $55.10

SUPPLEMENTAL BENEFITS
Per Hour:
Journeyworker: $23.88

OVERTIME PAY
See (A, H) on OVERTIME PAGE
HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6, 8, 11, 18, 19, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage per hour:

1st term $21.29
2nd term $27.84
3rd term $33.29
4th term $44.20

Supplemental Benefits per hour:

1st term $14.43
2nd term 18.16
3rd term 19.30
4th term 21.59

8-NYC9-1974-DWT

Painter - Bridge & Structural Steel 12/01/2023

JOB DESCRIPTION Painter - Bridge & Structural Steel

DISTRICT 8

ENTIRE COUNTIES

WAGES
Per Hour:

STEEL:
Bridge Painting: 07/01/2023 10/01/2023
$54.50 $56.00
+10.10* +10.35*

ADDITIONAL $6.50 per hour for POWER TOOL/SPRAY, whether straight time or overtime.

NOTE: All premium wages are to be calculated on base rate per hour only.

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (no cap).

NOTE: Generally, for Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

SHIFT WORK:

When directly specified in public agency or authority contract documents for an employer to work a second shift and works the second shift with employees other than from the first shift, all employees who work the second shift will be paid 10% of the base wage shift differential in lieu of overtime for the first eight (8) hours worked after which the employees shall be paid at time and one half of the regular wage rate. When a single irregular work shift is mandated in the job specifications or by the contracting agency, wages shall be paid at time and one half for single shifts between the hours of 3pm-11pm or 11pm-7am.

SUPPLEMENTAL BENEFITS
Per Hour:
Journeyworker:

$11.78 $12.43
+30.85* +31.55*

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (no cap).

OVERTIME PAY
See (B, F, R) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wage - Per hour:
Apprentices: (1) year terms.

1st year
$21.80
+ 4.04
2nd year
$32.70
+ 6.06
3rd year
$43.60
+ 8.08
Supplemental Benefits - Per hour:
1st year
$.90
+ 12.34
2nd year
$7.07
+ 18.51
3rd year
$9.42
+ 24.68

NOTE: All premium wages are to be calculated on base rate per hour only.

Painter - Metal Polisher

JOB DESCRIPTION
Painter - Metal Polisher

DISTRICT 8

ENTIRE COUNTIES

WAGES
07/01/2023
Metal Polisher
$38.18
Metal Polisher*
39.28
Metal Polisher**
42.18

*Note: Applies on New Construction & complete renovation
** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS
Per Hour:
07/01/2023
Journeyworker:
All classification
$12.34

OVERTIME PAY
See (B, E, P, T) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 9, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:
One (1) year term at the following wage rates:

07/01/2023

1st year
$16.00
2nd year
17.00
3rd year
18.00

1st year*
$16.39
2nd year*
17.44
3rd year*
18.54
### Plasterer

**JOB DESCRIPTION** Plasterer  
**DISTRICT** 9  
**ENTIRE COUNTIES** Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk  

**WAGES**  
Per hour:

<table>
<thead>
<tr>
<th>Year</th>
<th>Per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>08/01/2023</td>
</tr>
<tr>
<td>Building:</td>
<td></td>
</tr>
<tr>
<td>Plasterer/Traditional &amp; Spraying Fireproofing</td>
<td>$46.00</td>
</tr>
<tr>
<td>+ $5.00*</td>
<td>+ $5.00*</td>
</tr>
</tbody>
</table>

**SUPPLEMENTAL BENEFITS**  
Per hour:

<table>
<thead>
<tr>
<th>Year</th>
<th>Per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>08/01/2023</td>
</tr>
<tr>
<td>Journeyworker</td>
<td>$23.15</td>
</tr>
</tbody>
</table>

**OVERTIME PAY**  
See (B, E, Q) on OVERTIME PAGE  
*This portion is not subjected to OT premiums.*

**HOLIDAY**  
Paid: See (1) on HOLIDAY PAGE  
Overtime: See (5, 6, 25) on HOLIDAY PAGE

**REGISTERED APPRENTICES**  
Wages:

<table>
<thead>
<tr>
<th>Term</th>
<th>Per hour</th>
<th>800 hours term:</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>08/01/2023</td>
<td></td>
</tr>
<tr>
<td>1st term</td>
<td>$25.44 + 2.75*</td>
<td>$19.30 + 0.68*</td>
</tr>
<tr>
<td>2nd term</td>
<td>27.49 + 2.51*</td>
<td>$22.53 + 0.81*</td>
</tr>
<tr>
<td>3rd term</td>
<td>32.38 + 3.50*</td>
<td>$25.79 + 0.95*</td>
</tr>
<tr>
<td>4th term</td>
<td>34.68 + 3.75*</td>
<td></td>
</tr>
</tbody>
</table>

*This portion is not subjected to OT premiums.*

**Supplemental Benefits:**

<table>
<thead>
<tr>
<th>Term</th>
<th>Per hour</th>
<th>800 hours term:</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>08/01/2023</td>
<td></td>
</tr>
<tr>
<td>1st term</td>
<td>$14.70</td>
<td>$11.59</td>
</tr>
<tr>
<td>2nd term</td>
<td>15.60</td>
<td>$12.02</td>
</tr>
<tr>
<td>3rd term</td>
<td>17.43</td>
<td>$12.52</td>
</tr>
<tr>
<td>4th term</td>
<td>18.35</td>
<td></td>
</tr>
</tbody>
</table>

**Plumber**  
**JOB DESCRIPTION** Plumber  
**DISTRICT** 9  
**ENTIRE COUNTIES** Bronx, Kings, New York, Queens, Richmond  

**WAGES**  
Per hour:

<table>
<thead>
<tr>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
</tr>
</tbody>
</table>

**SUPPLEMENTAL BENEFITS**

<table>
<thead>
<tr>
<th>Term</th>
<th>Per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 hours term:</td>
<td></td>
</tr>
<tr>
<td>1st term</td>
<td>$14.70</td>
</tr>
<tr>
<td>2nd term</td>
<td>15.60</td>
</tr>
<tr>
<td>3rd term</td>
<td>17.43</td>
</tr>
<tr>
<td>4th term</td>
<td>18.35</td>
</tr>
</tbody>
</table>
Plumber $ 72.50
Temporary Service** $ 58.08

** Temporary Service- Includes Maintenance of cooling & heating apparatus, maintenance work on pneumatic systems during the construction period, and work on temporary heat. All hours paid at straight time, including holidays.

**THERE ARE NO HELPERS UNDER THIS CLASSIFICATION.

On tower work, bridges, elevated highway, or buildings, where pipe is being installed, fifty (50) or more feet vertically in a free drop from its base, an additional $1.00 per hour.

SHIFT WORK:
Shift work, when directly specified in public agency or authority contract documents, and continues for a period of not less than ten (10) consecutive work days. A shift shall consist of seven (7) hours with one-half (1/2) hour for lunch after the first four (4) hours of each shift. A premium of thirty percent (30%) for wages and supplemental benefits on shift work performed Monday through Friday on the 4 P.M. and midnight shifts.
For shift work performed on weekends the shift premium shall be fifty percent (50%) of wages and supplemental benefits. For shift work performed on holidays designated below, double time wages and supplemental benefits shall be paid. Also noted that the normal workday Monday through Friday 8:00 A.M. to 3:00 P.M. is not considered shift work, and therefore not subject to shift premium.

SUPPLEMENTAL BENEFITS
Per hour:
Plumber $ 41.45
Temporary Service $ 33.08

OVERTIME PAY
Plumber See ( C, O, V ) on OVERTIME PAGE.

HOLIDAY
Plumber Overtime: See ( 5, 6, 11, 15, 16, 25 ) on HOLIDAY PAGE.
Repairs & Maintenance Paid: See ( 1 ) on HOLIDAY PAGE.
Overtime: See ( 5, 6, 25 ) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Wages per hour:
(1/2) year terms at the following wage:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd&amp;4th</th>
<th>5th&amp;6th</th>
<th>7th&amp;8th</th>
<th>9th</th>
<th>10th</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>$16.78</td>
<td>$19.78</td>
<td>$28.99</td>
<td>$31.09</td>
<td>$33.94</td>
<td>$35.34</td>
<td>$47.41</td>
</tr>
</tbody>
</table>

Supplemental Benefits:
(1/2) year term at the following dollar amount:

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd-10th</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/2023</td>
<td>$5.43</td>
<td>$6.43</td>
<td>$21.95</td>
</tr>
</tbody>
</table>

Plumber - Pump & Tank: Oil Trades Installation & Maintenance 12/01/2023

JOB DESCRIPTION Plumber - Pump & Tank: Oil Trades Installation & Maintenance DISTRICT 9

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

WAGES
Per hour:
07/01/2023
Pump & Tank $ 69.31

SUPPLEMENTAL BENEFITS
Per hour:
Plumber $ 26.33

OVERTIME PAY
Pump & Tank See ( B, F, H ) on OVERTIME PAGE.

HOLIDAY
Paid: See ( 1 ) on HOLIDAY PAGE.
Overtime: See ( 5, 6, 10, 11, 12, 16, 25 ) on HOLIDAY PAGE.

Plumber - Repairs & Maintenance 12/01/2023

JOB DESCRIPTION Plumber - Repairs & Maintenance

ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

WAGES
Per hour:

Repairs & Maintenance 07/01/2023 $ 47.50

*Repair & Maintenance work is any repair and/or replacement of present plumbing system that does not change existing roughing or water supply lines. Projects regardless of work type which have approved plans and specifications wherein the plumbing exceeds $725,000 are excluded.

SUPPLEMENTAL BENEFITS
Per hour:

Repair $ 19.06
Maintenance

OVERTIME PAY
Repairs & Maintenance See ( B, H ) on OVERTIME PAGE.

HOLIDAY
Repairs & Maintenance
Paid: See ( 1 ) on HOLIDAY PAGE.
Overtime: See ( 5, 6, 25 ) on HOLIDAY PAGE.

REGISTERED APPRENTICES
Note: The Repairs & Maintenance Category has NO Apprentices.

Roofer 12/01/2023

JOB DESCRIPTION Roofer

ENTIRE COUNTIES
Bronx, Dutchess, Kings, New York, Orange, Putnam, Queens, Richmond, Rockland, Sullivan, Ulster, Westchester

WAGES
Per Hour:

07/01/2023 05/01/2024
Additional
Roof/Waterproofer $ 46.50 $ 49.00
+ $7.00*$

* This portion is not subjected to overtime premiums.

Note: Abatement/Removal of Asbestos containing roofs and roofing material is classified as Roofer.

SUPPLEMENTAL BENEFITS
Per Hour: $ 31.37

OVERTIME PAY
See (B, H) on OVERTIME PAGE
Note: An observed holiday that falls on a Sunday will be observed the following Monday.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
( 1 ) year term apprentices indentured prior to 01/01/2023
<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>$16.28</td>
<td>$23.25</td>
<td>$27.90</td>
<td>$34.88</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+3.50*</td>
<td>+4.20*</td>
<td>+5.26*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>$4.03</td>
<td>$15.85</td>
<td>$18.95</td>
<td>$23.61</td>
<td></td>
</tr>
</tbody>
</table>

* This portion is not subjected to overtime premiums.

(1) year term apprentices indentured after 01/01/2023

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>$17.67</td>
<td>$20.93</td>
<td>$23.25</td>
<td>$27.90</td>
<td>$34.88</td>
</tr>
<tr>
<td></td>
<td>+3.16*</td>
<td>+3.50*</td>
<td>+4.20*</td>
<td>+5.26</td>
<td></td>
</tr>
<tr>
<td>Supplements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>$7.61</td>
<td>$14.29</td>
<td>$15.85</td>
<td>$18.95</td>
<td>$23.61</td>
</tr>
</tbody>
</table>

* This portion is not subjected to overtime premiums.

Sheetmetal Worker  

**JOB DESCRIPTION** Sheetmetal Worker  

**ENTIRE COUNTIES** 
Bronx, Kings, Nassau, New York, Queens, Richmond, Rockland, Suffolk, Westchester  

**WAGES** 

| Per Hour: 7/01/2023 | $56.00 |

**NOTE:** Structurally Supported Overhead Highway Signs (See STRUCTURAL IRON WORKER CLASS)  

**SUPPLEMENTAL BENEFITS** 

| Per Hour: 7/01/2023 | $55.66 |

**OVERTIME PAY** 

See (A, F, S) on OVERTIME PAGE  

**HOLIDAY** 

Paid: See (5, 6, 10, 11, 12, 16, 25) on HOLIDAY PAGE  
Overtime: See (5, 6, 10, 11, 12, 16, 25) on HOLIDAY PAGE  

**REGISTERED APPRENTICES** 

6 month Terms at the following percentage of Sign Erectors wage rate:

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
<th>7th</th>
<th>8th</th>
<th>9th</th>
<th>10th</th>
</tr>
</thead>
<tbody>
<tr>
<td>35%</td>
<td>40%</td>
<td>45%</td>
<td>50%</td>
<td>55%</td>
<td>60%</td>
<td>65%</td>
<td>70%</td>
<td>75%</td>
<td>80%</td>
</tr>
</tbody>
</table>

**SUPPLEMENTAL BENEFITS** 

| Per Hour: 07/01/2023 | $14.95 $16.95 $18.93 $20.93 $28.56 $31.05 $33.57 $36.05 $38.56 $41.05 |

4-137-SE  

Sheetmetal Worker  

5-137-SE  

**JOB DESCRIPTION** Sheetmetal Worker  

**ENTIRE COUNTIES** 
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk  

**WAGES** 

| Per Hour: 7/01/2023 | $59.94 $61.09 |

Sheetmetal Worker
Maintenance of Fans  $47.95  $48.87
Temporary Operation

SUPPLEMENTAL BENEFITS
Per Hour:

Sheetmetal Worker  $51.16  $53.25
Maintenance Worker  $51.16  $53.25

OVERTIME PAY
See (B, E, Q, V) on OVERTIME PAGE
For Maintenance See Codes B, E, Q & V

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Per Hour: Wages
Six (6) Month Terms As Follows:

1st & 2nd Term  $20.85  $21.26
3rd & 4th Term  26.87  27.39
5th & 6th Term  32.89  33.52
7th & 8th Term  41.94  42.75
9th Term  47.53  48.55

Per Hour: Supplemental Benefits

1st & 2nd Term  $19.02  $19.66
3rd & 4th Term  25.90  26.73
5th & 6th Term  30.55  31.57
7th & 8th Term  37.49  38.78
9th Term  42.14  43.62

JOB DESCRIPTION  Steamfitter
ENTIRE COUNTIES  Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk
WAGES
Per Hour:  07/01/2023  01/01/2024  07/01/2024
Additional  Additional
AC Service/Heat Service  $44.85
& Refrigeration  $1.25/Hr.*  $1.25/Hr.*

(*)To be allocated at a later date.
Refrigeration, A/C, Oil Burner and Stoker Service and Repair.
NOTE: Refrigeration Compressor installation. (Not to exceed 5 Hp combined on any one project).
NOTE: Air Condition / Heating Compressor installation. (Not to exceed 15 tons combined on any one project).

SUPPLEMENTAL BENEFITS
Per Hour Worked:
AC Service/Heat Service  $20.71

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 11, 15, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
1 year terms
Wages per hour:
1st Term $ 21.71
2nd Term 26.21
3rd Term 30.53
4th Term 36.87

Benefits per hour Worked:
Per Hour Paid: Per Hour Paid:
1st Term $ 14.20 $ 11.14
2nd Term 14.57 12.48
3rd Term 15.91 13.38
4th Term 17.72 15.77

Steamfitter 12/01/2023

JOB DESCRIPTION Steamfitter
ENTIRE COUNTIES
Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

WAGES
Per Hour: 07/01/2023
Sprinkler/Steam $ 69.11
AC/Heat Fitter
Temporary 52.54
Heat & AC Fitter

Note: Add 15% to Hourly Wage for "Contracting Agency" Mandated Off Shift Work.

SUPPLEMENTAL BENEFITS
Per Hour:
Sprinkler/Steam $ 53.24
Fitter
Temporary 43.67
Heat & AC Fitter

Note: Add 15% to Hourly Benefit for "Contracting Agency" Mandated Off Shift Work.

OVERTIME PAY
Note: The posted overtime rates are applicable after 8 hours plus Saturday, Sunday and Holidays on Fire Protection/Sprinkler contracts under $3,000,000.00 and HVAC/Mechanical contracts under $30,000,000.00:
Sprinkler/Steam Wages $ 138.22 Benefit $ 106.48
Temp Heat/AC Wages $ 105.08 Benefit $ 87.34

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
1 year Terms at the Following:

WAGES per hour:
1st Term $ 27.68
2nd Term 34.59
3rd Term 41.49
4th Term 48.40
5th Term 55.30

SUPPLEMENTAL BENEFIT per hour:
1st Term $ 21.80
2nd Term 27.05
3rd Term 32.28
4th Term 37.53
5th Term 42.76

Premium Time Amounts: 43.60 54.10 64.56 75.06 85.52

Teamster - Heavy Construction 12/01/2023

JOB DESCRIPTION Teamster - Heavy Construction
DISTRICT 4
ENTIRE COUNTIES
Bronx, Kings, New York, Queens, Richmond

WAGES
Per Hour:

Dump Trucks/Drivers (Debris Removal, Street Level and below)

<table>
<thead>
<tr>
<th></th>
<th>07/01/2023</th>
<th>07/01/2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dump Trucks</td>
<td>$ 43.835</td>
<td>$ 45.195</td>
</tr>
<tr>
<td>Tractor Trailers</td>
<td>46.115</td>
<td>46.995</td>
</tr>
<tr>
<td>Euclid/TURNAPULL</td>
<td>46.68</td>
<td>46.68</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL BENEFITS
Per Hour:

Dump Trucks
Up to 40 Hours Worked $ 51.5525

ALL OTHERS
Up to 40 Hours Worked 51.5025

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE
Note: Employees receive 2 hours of Holiday Pay for each day worked in holiday week (not to exceed 8 hours)
Note: Employees receive 5 1/3 hours of Holiday Pay for each day worked in Thanksgiving Holiday Week.

4-282

Welder

JOB DESCRIPTION  Welder
DISTRICT    1

ENTIRE COUNTIES

WAGES
Per hour 07/01/2023

Welder: To be paid the same rate of the mechanic performing the work.*

*EXCEPTION: If a specific welder certification is required, then the ‘Certified Welder’ rate in that trade tag will be paid.

OVERTIME PAY
HOLIDAY

1-As Per Trade
Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

NOTE: Supplemental Benefits are 'Per hour worked' (for each hour worked) unless otherwise noted

( AA ) Time and one half of the hourly rate after 7 and one half hours per day
( A ) Time and one half of the hourly rate after 7 hours per day
( B ) Time and one half of the hourly rate after 8 hours per day
( B1 ) Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday. Double the hourly rate for all additional hours
( B2 ) Time and one half of the hourly rate after 40 hours per week
( C ) Double the hourly rate after 7 hours per day
( C1 ) Double the hourly rate after 7 and one half hours per day
( D ) Double the hourly rate after 8 hours per day
( D1 ) Double the hourly rate after 9 hours per day
( E ) Time and one half of the hourly rate on Saturday
( E1 ) Time and one half 1st 4 hours on Saturday; Double the hourly rate all additional Saturday hours
( E2 ) Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
( E3 ) Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
( E4 ) Saturday and Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
( E5 ) Double time after 8 hours on Saturdays
( F ) Time and one half of the hourly rate on Saturday and Sunday
( G ) Time and one half of the hourly rate on Saturday and Holidays
( H ) Time and one half of the hourly rate on Saturday, Sunday, and Holidays
( I ) Time and one half of the hourly rate on Sunday
( J ) Time and one half of the hourly rate on Sunday and Holidays
( K ) Time and one half of the hourly rate on Holidays
( L ) Double the hourly rate on Saturday
( M ) Double the hourly rate on Saturday and Sunday
( N ) Double the hourly rate on Saturday and Holidays
( O ) Double the hourly rate on Saturday, Sunday, and Holidays
( P ) Double the hourly rate on Sunday
( Q ) Double the hourly rate on Sunday and Holidays
( R ) Double the hourly rate on Holidays
( S ) Two and one half times the hourly rate for Holidays
(S1) Two and one half times the hourly rate the first 8 hours on Sunday or Holidays. One and one half times the hourly rate all additional hours.

(T) Triple the hourly rate for Holidays

(U) Four times the hourly rate for Holidays

(V) Including benefits at SAME PREMIUM as shown for overtime

(W) Time and one half for benefits on all overtime hours.

(X) Benefits payable on Paid Holiday at straight time. If worked, additional benefit amount will be required for worked hours. (Refer to other codes listed.)
Holiday Codes

PAID Holidays:

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

( 1 ) None
( 2 ) Labor Day
( 3 ) Memorial Day and Labor Day
( 4 ) Memorial Day and July 4th
( 5 ) Memorial Day, July 4th, and Labor Day
( 6 ) New Year's, Thanksgiving, and Christmas
( 7 ) Lincoln's Birthday, Washington's Birthday, and Veterans Day
( 8 ) Good Friday
( 9 ) Lincoln's Birthday
( 10 ) Washington's Birthday
( 11 ) Columbus Day
( 12 ) Election Day
( 13 ) Presidential Election Day
( 14 ) 1/2 Day on Presidential Election Day
( 15 ) Veterans Day
( 16 ) Day after Thanksgiving
( 17 ) July 4th
( 18 ) 1/2 Day before Christmas
( 19 ) 1/2 Day before New Year's
( 20 ) Thanksgiving
( 21 ) New Year's Day
( 22 ) Christmas
( 23 ) Day before Christmas
( 24 ) Day before New Year's
( 25 ) Presidents' Day
( 26 ) Martin Luther King, Jr. Day
( 27 ) Memorial Day
( 28 ) Easter Sunday
Juneteenth
**REQUEST FOR WAGE AND SUPPLEMENT INFORMATION**

As Required by Articles 8 and 9 of the NYS Labor Law

Fax (518) 485-1870 or mail this form for new schedules or for determination for additional occupations.

![This Form Must Be Typed](image)

Submitted By:  
(Enter Data Pertaining to Contracting/Public Agency)

<table>
<thead>
<tr>
<th>A. Public Work Contract to be let by:</th>
<th>2. NY State Units (see Item 5):</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Name and complete address □ (Check if new or change)</td>
<td>□ 01 DOT</td>
</tr>
<tr>
<td>□ 02 OGS</td>
<td></td>
</tr>
<tr>
<td>□ 03 Dormitory Authority</td>
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<td>□ 13 Other Non-N.Y. State (Describe)</td>
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Telephone Fax E-Mail:

3. SEND REPLY TO □ (Check if new or change)  
Name and complete address:

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<th>B. PROJECT PARTICULARS</th>
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<td>5. Project Title ________________________________</td>
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<tr>
<td>Description of Work ________________________________</td>
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<td>Contract Identification Number ______________________</td>
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Note: For NYS units, the OSC Contract No.

6. Location of Project:  
Location on Site ____________________  
Route No/Street Address ____________________  
Village or City ____________________  
Town ____________________  
County ____________________

7. Nature of Project - Check One:  
1. New Building  
2. Addition to Existing Structure  
3. Heavy and Highway Construction (New and Repair)  
4. New Sewer or Waterline  
5. Other New Construction (Explain)  
6. Other Reconstruction, Maintenance, Repair or Alteration  
7. Demolition  
8. Building Service Contract

8. OCCUPATION FOR PROJECT:  
□ Construction (Building, Heavy Highway/Sewer/Water)  
□ Tunnel  
□ Residential  
□ Landscape Maintenance  
□ Elevator maintenance  
□ Exterminators, Fumigators  
□ Fire Safety Director, NYC Only  
□ Fuel Delivery  
□ Guards, Watchmen  
□ Janitors, Porters, Cleaners, Elevator Operators  
□ Moving furniture and equipment  
□ Trash and refuse removal  
□ Window cleaners  
□ Other (Describe)

9. Does this project comply with the Wicks Law involving separate bidding? YES □ NO □

10. Name and Title of Requester

Signature

SEE PAGE TWO FOR LAWS RELATING TO PUBLIC WORK CONTRACTS
Under Article 8 and Article 9 of the NYS Labor Law, a contractor, sub-contractor and/or its successor shall be debarred and ineligible to submit a bid on or be awarded any public work or public building service contract/sub-contract with the state, any municipal corporation or public body for a period of five (5) years from the date of debarment when:

- Two (2) final determinations have been rendered within any consecutive six-year (6) period determining that such contractor, sub-contractor and/or its successor has WILLFULLY failed to pay the prevailing wage and/or supplements;

- One (1) final determination involves falsification of payroll records or the kickback of wages and/or supplements.

The agency issuing the determination and providing the information, is denoted under the heading ‘Fiscal Officer’. DOL = New York State Department of Labor; NYC = New York City Comptroller’s Office; AG = New York State Attorney General’s Office; DA = County District Attorney’s Office.

**Debarment Database:** To search for contractors, sub-contractors and/or their successors debarred from bidding or being awarded any public work contract or subcontract under NYS Labor Law Articles 8 and 9, or under NYS Workers' Compensation Law Section 141-b, access the database at this link: https://apps.labor.ny.gov/EDList/searchPage.do

For inquiries where WCB is listed as the "Agency", please call 1-866-546-9322
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NYSDOL Bureau of Public Work Debarment List 12/05/2023 Article 8
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EXHIBIT C: SPECIFICATIONS
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<td>SHEET METAL FLASHINGS AND ACCESSORIES</td>
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END OF TABLE OF CONTENTS
1.1 GENERAL CONDITIONS

A. The following form of the General Conditions shall be used for Project:

1. Requirements as stipulated in Owner's document bound within this Document.

1.2 ADMINISTRATIVE FORMS

A. Preconstruction Forms:

1. Form of Performance Bond and Labor and Material Bond: Requirements as stipulated in Owner’s document bound within this Document.

B. Information and Modification Forms:

1. Form for Request for Interpretation (RFI): Bound within this Document.

C. Payment Forms:

1. Requirements as stipulated in Owner’s document bound within this Document.

END OF DOCUMENT 006000
SECTION 011000 - 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. Access to site.
4. Indoor Air Quality during construction.
5. Coordination with occupants.
6. Work restrictions.
7. Specification and drawing conventions.
8. Correlation and Intent of the Contract Documents

   a. Request for Interpretation.
   b. Proposal Request.

1.3 PROJECT INFORMATION

Project Identification:  Fashion Institute of Technology
                      East Courtyard Roof Renovations
                      New York, NY 10001

Owner:  Fashion Institute of Technology (FIT)
         Owner’s Representative: Allen King
         Tel: 212-219-4424

1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Scope of Work for this Project generally consists of the following:

   1. Roofing removal and replacement work shall be coordinated with HVAC and HVAC dunnage work being performed under separate contract.
a. The HVAC Contractor will remove the existing HVAC units and unit curbs, and all existing ductwork, leaving duct stubs extending approx. 8” above the deck surface.

b. The Roofing Contractor shall remove all existing duct supports.

2. The Roofing Contractor shall be responsible for maintaining watertightness throughout the performance of the work, including (but not limited to) the duct stubs and deck openings around them, and areas from which HVAC unit curbs were removed.

3. Remove and locate offsite for re-use existing concrete pavers in good condition.

4. Remove paver pedestals, protection board, roofing membrane, roof insulation board, and base sheet down to the surface of the poured concrete roof decks and adjoining vertical flashing surfaces.

5. Remove sheet metal flashings, partially or completely, as indicated on the Drawings.

6. Install a new roofing system, comprising two different roofing assemblies: an Inverted Roof Membrane Assembly (“IRMA”) system in Roof Areas A, B and C, and a Conventional system in Roof Area D – see Roof Plan for Roof Area designations.

a. The IRMA system includes cementitious fill to correct deck slope and form crickets; a 2-ply torch-applied modified bitumen membrane; drainage mat; extruded polystyrene insulation board, 7 inches thick; fabric mat; and, concrete pavers on pedestals and, as needed, shims.

b. The Conventional system includes a torch-applied modified bitumen base sheet; tapered isocyanurate insulation board in adhesive, with a starting thickness of 6”; a cover board in adhesive; and a 2-ply torch-applied modified bitumen membrane.

7. The roofing system includes related membrane and metal flashings.

8. Drain bodies shall remain in place. Fixed drain extensions shall be installed for the drains in the Conventional assembly. New scuppers shall be cut through existing concrete curbs.

9. Existing access provisions between Roof Areas – steel steps and concrete steps – shall be renovated. A steel ladder shall be removed.

10. Steel gates and screens shall be refinished and re-installed.

11. Existing parapet-mounted guardrails and light fixtures shall be removed. New guardrails and light fixtures shall be installed.

12. Existing wall mounted light fixtures shall be removed. New wall mounted light fixtures and controls shall be installed.

13. The existing rooftop sheds on Areas A, B and C shall be removed in their entirety, including shed roofs and walls, all steel support and framing elements, and metal flashings at the shed roof, holes from which shall be patched in the adjoining buildings’ walls.

B. Types of Contracts: Project will be constructed a single Prime Contract.

C. Prime Contractor: Work in the Prime Contract includes, but is not limited to, the following:

1. Roofing work.
2. General trades work.
3. Electrical work.
4. Remaining work not identified as work under other contracts.
5. Selective demolition and cutting and patching not identified as work under other contracts.
D. Temporary facilities and controls in the Prime Contract include, but are not limited to, the following:

1. Temporary facilities and controls that are not otherwise specifically assigned to the Electrical Contract.
2. Unpiped temporary toilet fixtures (if Owner’s facilities are not available for use), wash facilities, and drinking water facilities, including disposable supplies.
3. General waste disposal facilities.
4. Barricades, warning signs, and lights.
5. Security enclosure and lockup.
7. Restoration of Owner's existing facilities used as temporary facilities.
8. Staging and scaffolding.

1.5 PROJECT COORDINATION

A. Prime Contractor coordination activities of Project include, but are not limited to, the following:

1. Provide overall coordination of the Work, including that of owner’s contracts at jobsite.
2. Coordinate compliance with FIT’s fire safety requirements during construction.
3. Coordinate shared access to workspaces.
5. Provide overall coordination of temporary facilities and controls.
6. Coordinate, schedule, and approve interruptions of permanent and temporary utilities, including those necessary to make connections for temporary services.
7. Coordinate construction and operations of the Work with work performed by each Contract.
8. Coordinate sequencing and scheduling of the Work. Include the following:

   a. Initial Coordination Meeting: At earliest possible date, arrange and conduct a meeting with contractors for sequencing and coordinating the Work; negotiate reasonable adjustments to schedules.
   b. Prepare a combined contractors' construction schedule for entire Project. Base schedule on preliminary construction schedule. Secure time commitments for performing critical construction activities from contractors. Show activities of each contract on a separate sheet. Prepare a simplified summary sheet indicating combined construction activities of contracts.

      1) Submit schedules for approval.
      2) Distribute copies of approved schedules to contractors.

10. Provide quality-assurance and quality-control services.
11. Coordinate sequence of activities to accommodate tests and inspections, and coordinate schedule of tests and inspections.
12. Provide information necessary to adjust, move, or relocate existing utility structures affected by construction.
13. Provide progress cleaning of common areas and coordinate progress cleaning of areas or pieces of equipment where more than one contractor has worked.
14. Coordinate cutting and patching.
15. Coordinate protection of the Work.
17. Coordinate completion of interrelated punch list items.
18. Coordinate preparation of Project record documents if information from more than one contractor is to be integrated with information from other contractors to form one combined record.
19. Print and submit record documents if installations by more than one contractor are indicated on the same contract drawing or shop drawing.
20. Collect record Specification Sections from contractors, collate Sections into numeric order, and submit complete set.
21. Coordinate preparation of operation and maintenance manuals if information from more than one contractor is to be integrated with information from other contractors to form one combined record.

B. Each Contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of the Work. Each Contractor shall coordinate its operations with operations, included in different Sections, that depend on each other for proper installation, connection, and operation.

1. Unless otherwise indicated, the work described in this Section for each contract shall be complete systems and assemblies, including products, components, accessories, and installation required by the Contract Documents.
2. Blocking, backing panels, sleeves, and metal fabrication supports for the work of each contract shall be the work of each contract for its own work.
3. Furnishing of access panels for the work of each contract shall be the work of each contract for its own work. Installation of access panels shall be the work of each contract for its own work.
4. Painting for the work of each contract shall be the work of the General Construction Contract.
5. Cutting and Patching: Provided under each contract for its own work.
6. Through-penetration firestopping for the work of each contract shall be provided by each contract for its own work.

C. Temporary facilities and controls in the Prime Contractors Contract include, but are not limited to, the following:

1. Installation, operation, maintenance, and removal of each temporary facility necessary for its own normal construction activity, and costs and use charges associated with each facility, except as otherwise provided for in this Section.
2. Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
3. Temporary enclosures for its own construction activities.
4. Waste disposal facilities, including collection and legal disposal of its own hazardous, dangerous, unsanitary, or other harmful waste materials.
5. Progress cleaning of work areas affected by its operations on a daily basis.
6. Secure lockup of its own tools, materials, and equipment.
7. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
8. FIT’s fire safety requirements during construction.
1.6 ACCESS TO SITE

A. Prime Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.

B. Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Driveways, Walkways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
   a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
   b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

D. Connections to Electrical Equipment and Systems: Contractor is not permitted to tie into electrical equipment or systems until the FIT Facilities Management Department has reviewed and approved the connection.

   1. Submit written procedures to the Owner’s Representative, detailing the proposed connection Work.
   2. After procedures have been approved, notify the Owner’s Representative at least three working days prior to the connection Work so that arrangements can be made to have a FIT Facilities Management Department Representative witness the Work.

1.7 COORDINATION WITH OCCUPANTS

A. Partial Owner Occupancy: Owner will occupy the premises during entire construction period, with the exception of areas where work is being performed. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits unless otherwise indicated.

   1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
   2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.
1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.

2. Obtain a Certificate of Occupancy from authorities having jurisdiction before limited Owner occupancy.

3. Before limited Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of Work.

4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

1.8 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

B. On-Site Work Hours: As indicated in Owner’s General Requirements.

1. Unless noted otherwise, Work is to be performed between the hours of 7:00 a.m. to 6:00 p.m., Monday through Friday, legal and union holidays excluded.

2. Major mobilization if required is to be performed at night, between the hours of 9:00 p.m. to 6:00 a.m., Monday through Friday.

3. All work conducted which causes significant noise that is considered a disturbance to the school shall be conducted, at contractor’s expense, during the time period between 9:00 p.m. and 6:00 a.m. Work considered to be a disturbance or a disruption to the school includes but is not necessarily limited to roof materials loading, roofing removal, scarification, and mechanical fastening operations.

4. Hours for Utility Shutdowns: As approved in writing by Owner with not less than 72 hours’ notice. Shutdowns shall be conducted, at contractor’s expense, during the time period between 10:00 p.m. and 6:00 a.m.

5. Hours for Core Drilling: As approved in writing by Owner with not less than 72 hours notice. Core drilling shall be conducted, at Contractor’s expense, during the time period between 10:00 p.m. and 6:00 a.m.

6. 24 Hour Access: The Owner will make the work site available as needed, including three shifts (24 hour access) as coordinated and approved in writing by Owner. All additional costs associated with work outside of normal business working hours shall be accounted for in the Contractor’s bid.

7. Weekend Hours: As approved in writing by Owner.

C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:

1. Notify Owner not less than two days in advance of proposed utility interruptions.

2. Obtain Owner's written permission before proceeding with utility interruptions.
D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, any level of odors, or other disruption to Owner occupancy with Owner.

1. Notify Owner not less than 72 hours in advance of proposed disruptive operations.
2. Obtain Owner's written permission before proceeding with disruptive operations.

E. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.

F. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

G. Employee Identification: Comply with the Facility’s Visitor Identification Policy. A copy of the current policy will be distributed at the initial job meeting.

1.9 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.
3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

1.10 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

A. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the work by the Contractor. The contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.
B. In the case of an inconsistency between Drawings and Specifications or within either Document not clarified by Addendum, the better quality or greater quantity of Work shall be provided in accordance with the Architect's interpretation.

C. If an item is shown on the Drawings but not specified, the Contractor shall provide the item of the same quality as similar items specified, as determined by the Architect. If an item is specified but not shown on the Drawings, it shall be located as directed by the Architect.

D. The Drawings are indications of the design intent as well as specific instructions. The "details" included on Drawings show the intent of all similar areas. If questions arise about the construction of an area not specifically detailed, consult with the Architect who will provide further "details" and instructions. Such further documentation, if consistent with the Contract Documents, shall not alter the Contract Sum.

E. If the Contractor, in the course of construction, finds any conflict, error, or discrepancy on or between the Drawings and Specifications or any of the related Contract Documents, such conflict, error, or discrepancy shall be immediately referred to the Architect, in writing. Architect shall issue an interpretation, in writing, to the Contractor within (10) days after receipt of the written request. No additional compensation will be paid to the Contractor as a result of an interpretation of the Contract Documents.

1.11 MISCELLANEOUS PROVISIONS

A. Electronic digital data files of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals.

B. Request for Interpretation (RFI):

1. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form bound in the Project Manual.
2. Architect’s Action: Architect will review each RFI, determine action required, and respond. Allow five working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
3. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly.
4. On receipt of Architect’s action, update RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within five days if contractor disagrees with response.

C. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.

1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
2. Within time specified in Proposal Request or 10 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
c. Include costs of labor and supervision directly attributable to the change.
d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
e. Use form acceptable to Architect.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 MANUFACTURER’S WARRANTY

A. Furnish a 30-year Full System No-Dollar-Limit warranty against material and installation workmanship deficiencies, covering the full cost of materials and labor necessary to correct the deficiencies, for the IRMA and Conventional roof systems.

1. The full system includes all materials produced by the Manufacturer.
2. The warranty for the IRMA system shall include a provision whereby the Manufacturer is responsible for the cost of removing and restoring overburden components (drainage mat, insulation, fabric mat, pedestals, pavers) to investigate and repair a deficiency covered under the warranty.
3. The warranty shall also include the manufactured coping and fascia assemblies included in this project.

3.2 CONTRACTOR’S GUARANTEE

A. Furnish a 5-year guarantee covering performance and costs of correction of deficiencies in the materials installed by the Roofing Contractor and in the workmanship in installing them.


C. No maintenance guarantee or maintenance bond is required.

END OF SECTION 011000
SECTION 012200 - UNIT PRICES

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 administrative and procedural requirements for unit prices.

1.3 DEFINITIONS
   A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the
      Work as a price per unit of measurement for materials, equipment, or services, or a portion of
      the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope
      of Work or estimated quantities of Work required by the Contract Documents are increased or
      decreased.

1.4 PROCEDURES
   A. Unit prices include all necessary material, plus cost for delivery, installation, insurance,
      applicable taxes, overhead, and profit.
   B. Measurement and Payment: See individual Specification Sections for work that requires
      establishment of unit prices. Methods of measurement and payment for unit prices are specified
      in those Sections.
   C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use
      of established unit prices and to have this work measured, at Owner's expense, by an
      independent surveyor acceptable to Contractor.
   D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections
      referenced in the schedule contain requirements for materials described under each unit price.
PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

A. Unit Price No. 01:

1. Description: Install 0.50” aluminum base infill where masonry substrate for base flashing is missing
2. Unit of Measurement: Per linear foot.
3. Quantity Allowance: 35 linear feet.
4. See Section 076200.

B. Unit Price 02:

1. Description: Install 24” x 24” x 2” concrete pavers to match existing, to replace existing full size pavers which are broken
2. Unit of Measurement: Per paver.
4. See Section 075000.

END OF SECTION 012200
SECTION 012300 - ALTERNATES

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 administrative and procedural requirements for alternates.

1.3 DEFINITIONS
A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1.  Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2.  The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES
A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1.  Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other Work of the Contract.

C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.
PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate Number 1 – Provide new ladder in lieu of refinishing and reinstalling existing ship’s ladder.
   1. See specification section 055000 for more information.

B. Alternate Number 2 – Provide new cast in place treads in lieu of precast treads.
   1. See specification section 034500 for more information.

C. Alternate Number 3 – Provide Electronic Leak Detection system at Roof D. Base bid shall include no associated work.
   1. See specification section 075900 for more information.

END OF SECTION 012300
SECTION 012500 - SUBSTITUTION 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. Section includes administrative and procedural requirements for substitutions.

1.3 DEFINITIONS

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

1.3.1 Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.

1.3.2 Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 ACTION SUBMITTALS

A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

1.4.1 Substitution Request Form: Use facsimile of form provided in Project Manual.

1.4.2 Documentation: Show compliance with requirements for substitutions and the following, as applicable:

   a. Statement indicating why specified product or fabrication or installation method cannot be provided, if applicable.

   b. Coordination of information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.

   c. Detailed comparison of significant qualities of proposed substitutions with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific
features and requirements indicated. Indicate deviations, if any, from the Work specified.

d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.

e. Samples, where applicable or requested.

f. Certificates and qualification data, where applicable or requested.

g. List of similar installations for completed projects, with project names and addresses as well as names and addresses of architects and owners.

h. Material test reports from a qualified testing agency, indicating and interpreting test results for compliance with requirements indicated.

i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.

j. Detailed comparison of Contractor's construction schedule using proposed substitutions with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.

k. Cost information, including a proposal of change, if any, in the Contract Sum.

l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents, except as indicated in substitution request, is compatible with related materials and is appropriate for applications indicated.

m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.


b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

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

1.6 PROCEDURES

A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.
1.7 SUBSTITUTIONS

A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.

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

   a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
   b. Substitution request is fully documented and properly submitted.
   c. Requested substitution will not adversely affect Contractor's construction schedule.
   d. Requested substitution has received necessary approvals of authorities having jurisdiction.
   e. Requested substitution is compatible with other portions of the Work.
   f. Requested substitution has been coordinated with other portions of the Work.
   g. Requested substitution provides specified warranty.
   h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

B. Substitutions for Convenience: Not allowed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012500
REQUEST FOR INTERPRETATION

DATE: __________________________
RFI NO.: _______________________
INITIATED BY: __________________
DIRECTED TO: __________________
RE: _____________________________

SUBJECT: ________________________

SIGNED: _________________________

REPLY:

The Work shall be carried out in accordance with the supplemental information or clarifications included in the Reply and issued in accordance with the Contract Documents without change in the Contract Sum or Contract Time. Proceeding with the Work in accordance with the Reply indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

Where the Reply requires a change to the Contract Sum or Contract Time, submit a detailed breakdown indicating the increased sum or time required. Proceed with the Reply ONLY when the Owner and the Architect give written authorization for the change to the Contract Sum or Contract Time.

REPLY ISSUED BY: __________________
FIRM: ___________________________
DATE: __________________________

DISTRIBUTION:

_____ Owner: ___________________
_____ Structural Engineer: _______
_____ Contractor: _______________
_____ Other: ___________________
_____ Mechanical Engineer: ______
_____ Other: ___________________
_____ Electrical Engineer: ________
_____ Other: ___________________
SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for quality assurance and quality control.

B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.

1. Specific quality-assurance and quality-control requirements for individual work results are specified in their respective Specification Sections. Requirements in individual Sections may also cover production of standard products.

2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and quality-control procedures that facilitate compliance with the Contract Document requirements.

3. Requirements for Contractor to provide quality-assurance and quality-control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

4. Specific test and inspection requirements are not specified in this Section.

1.3 DEFINITIONS

A. Experienced: When used with an entity or individual, "experienced" unless otherwise further described means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

B. Field Quality-Control Tests: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).

D. Mockups: Full-size physical assemblies that are constructed on-site either as freestanding temporary built elements or as part of permanent construction. Mockups are constructed to verify selections made under Sample submittals; to demonstrate aesthetic effects and qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

1. Integrated Exterior Mockups: Mockups of the exterior envelope constructed on-site as part of permanent construction, consisting of multiple products, assemblies, and subassemblies.

E. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.

F. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) according to 29 CFR 1910.7, by a testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

G. Source Quality-Control Tests: Tests and inspections that are performed at the source; for example, plant, mill, factory, or shop.

H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

I. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

J. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Architect.

1.4 DELEGATED-DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
1.5 CONFLICTING REQUIREMENTS

A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements are specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for direction before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.6 ACTION SUBMITTALS

A. Shop Drawings: For integrated exterior mockups.
   1. Include plans, sections, and elevations, indicating materials and size of mockup construction.
   2. Indicate manufacturer and model number of individual components.
   3. Provide axonometric drawings for conditions difficult to illustrate in two dimensions.

B. Delegated-Design Services Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit a statement signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional, indicating that the products and systems are in compliance with performance and design criteria indicated. Include list of codes, loads, and other factors used in performing these services.

1.7 INFORMATIONAL SUBMITTALS

A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.

B. Qualification Data: For Contractor's quality-control personnel.

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

D. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
   1. Specification Section number and title.
   2. Entity responsible for performing tests and inspections.
   3. Description of test and inspection.
   4. Identification of applicable standards.
5. Identification of test and inspection methods.
6. Number of tests and inspections required.
7. Time schedule or time span for tests and inspections.
8. Requirements for obtaining samples.
9. Unique characteristics of each quality-control service.

E. Reports: Prepare and submit certified written reports and documents as specified.

F. Permits, Licenses, and Certificates: For Owner's record, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents established for compliance with standards and regulations bearing on performance of the Work.

1.8 REPORTS AND DOCUMENTS

A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:

1. Date of issue.
2. Project title and number.
3. Name, address, telephone number, and email address of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspection.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:

1. Name, address, telephone number, and email address of technical 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.
8. Provide to Architect copy of Manufacturer’s Technical Representative’s written report to Contractor of each inspection performed by Representative. Include copy of report with other documents required for monthly payment request, for each inspection performed during that monthly period.

C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:

1. Name, address, telephone number, and email address of factory-authorized service representative making report.
2. Statement that equipment complies with requirements.
3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
4. Statement whether conditions, products, and installation will affect warranty.
5. Other required items indicated in individual Specification Sections.

1.9 QUALITY ASSURANCE

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

B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. As applicable, procure products from manufacturers able to meet qualification requirements, warranty requirements, and technical or factory-authorized service representative requirements.

C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

D. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.

E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.

F. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspection indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.

G. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation.
of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

H. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

I. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:

1. Contractor responsibilities include the following:
   a. Provide test specimens representative of proposed products and construction.
   b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
   c. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
   d. Build site-assembled test assemblies and mockups using installers who will perform same tasks for Project.

2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

J. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:

1. Build mockups of size indicated.
2. Build mockups in location indicated or, if not indicated, as directed by Architect.
3. Notify Architect seven days in advance of dates and times when mockups will be constructed.
4. Employ supervisory personnel who will oversee mockup construction. Employ workers that will be employed to perform same tasks during the construction at Project.
5. Demonstrate the proposed range of aesthetic effects and workmanship.
6. Obtain Architect's approval of mockups before starting corresponding work, fabrication, or construction.
   a. Allow seven days for initial review and each re-review of each mockup.

7. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
8. Demolish and remove mockups when directed unless otherwise indicated.

K. Integrated Exterior Mockups: Construct integrated exterior mockup according to approved Shop Drawings. Coordinate installation of exterior envelope materials and products for which
1.10 QUALITY CONTROL

A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.

1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspection they are engaged to perform.
2. Payment for these services will be made from testing and inspection allowances, as authorized by Change Orders.
3. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor.

B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that the Work complies with requirements.

1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
2. Engage a qualified testing agency to perform quality-control services.
   a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspection will be performed.
4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
5. Testing and inspection requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

C. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.


1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. Determine the locations from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform duties of Contractor.

E. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections.

F. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.

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

H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents. Coordinate and submit concurrently with Contractor's Construction Schedule. Update as the Work progresses.
   1. Distribution: Distribute schedule to Owner, Architect, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
   1. Date test or inspection was conducted.
   2. Description of the Work tested or inspected.
   3. Date test or inspection results were transmitted to Architect.
   4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.
1. Submit log at Project closeout as part of Project Record Documents.

3.2 REPAIR AND PROTECTION

A. General: On completion of testing, inspection, sample taking, and similar services, repair damaged construction and restore substrates and finishes.

1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000
SECTION 016000 - PRODUCT REQUIREMENTS

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 administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.

B. Related Requirements:

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

1.3 DEFINITIONS

A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.

1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.

2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.

3. Comparable Product: Product that is demonstrated and approved by Architect through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers named in the specification.
C. Subject to Compliance with Requirements: Where the phrase "Subject to compliance with requirements" introduces a product selection procedure in an individual Specification Section, provide products qualified under the specified product procedure. In the event that a named product or product by a named manufacturer does not meet the other requirements of the specifications, select another named product or product from another named manufacturer that does meet the requirements of the specifications. Submit a comparable product request, if applicable.

1.4 ACTION SUBMITTALS

A. Comparable Product Request Submittal: Submit request for consideration of each comparable product. Identify basis-of-design product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

1. Include data to indicate compliance with the requirements specified in "Comparable Products" Article.
2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a comparable product request. Architect will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
   a. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.

1.5 QUALITY ASSURANCE

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

1. Each contractor is responsible for providing products and construction methods compatible with products and construction methods of other contractors.
2. If a dispute arises between contractors over concurrently selectable but incompatible products, Architect will determine which products shall be used.

B. Identification of Products: Except for required labels and operating data, do not attach or imprint manufacturer or product names or trademarks on exposed surfaces of products or equipment that will be exposed to view in occupied spaces or on the exterior.

1. Labels: Locate required product labels and stamps on a concealed surface, or, where required for observation following installation, on a visually accessible surface that is not conspicuous.
2. Equipment Nameplates: Provide a permanent nameplate on each item of service-connected or power-operated equipment. Locate on a visually accessible but inconspicuous surface. Include information essential for operation, including the following:
1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

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

B. Delivery and Handling:

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

C. Storage:

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

1.7 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
3. See other Sections for specific content requirements and particular requirements for submitting special warranties.

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.

1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
3. Owner reserves the right to limit selection to products with warranties meeting requirements of the Contract Documents.
4. Where products are accompanied by the term "as selected," Architect will make selection.
6. Or Equal: For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.

   a. Submit additional documentation required by Architect in order to establish equivalency of proposed products. Evaluation of "or equal" product status is by the Architect, whose determination is final.

B. Product Selection Procedures:

1. Sole Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.

   a. Sole product may be indicated by the phrase: "Subject to compliance with requirements, provide the following: …"
2. Sole Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
   a. Sole manufacturer/source may be indicated by the phrase: "Subject to compliance with requirements, provide products by the following: …"

3. Limited List of Products: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
   a. Limited list of products may be indicated by the phrase: "Subject to compliance with requirements, provide one of the following: …"

4. Non-Limited List of Products: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, which complies with requirements.
   a. Non-limited list of products is indicated by the phrase: "Subject to compliance with requirements, available products that may be incorporated in the Work include, but are not limited to, the following: …"

5. Limited List of Manufacturers: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
   a. Limited list of manufacturers is indicated by the phrase: "Subject to compliance with requirements, provide products by one of the following: …"

6. Non-Limited List of Manufacturers: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, which complies with requirements.
   a. Non-limited list of manufacturers is indicated by the phrase: "Subject to compliance with requirements, available manufacturers whose products may be incorporated in the Work include, but are not limited to, the following: …"

7. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
C. Visual Matching Specification: Where Specifications require "match Architect's sample," provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.

D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 COMPARABLE PRODUCTS

A. Conditions for Consideration of Comparable Products: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:

1. Evidence that proposed product does not require revisions to the Contract Documents, is consistent with the Contract Documents, will produce the indicated results, and is compatible with other portions of the Work. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant product qualities include attributes such as type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other specific features and requirements.

2. Evidence that proposed product provides specified warranty.

3. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.

4. Samples, if requested.

B. Submittal Requirements: Approval by the Architect of Contractor's request for use of comparable product is not intended to satisfy other submittal requirements. Comply with specified submittal requirements.

PART 3 - EXECUTION (Not Used)
SECTION 017300 - EXECUTION

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 general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:

1. Installation of the Work.
2. Cutting and patching.
3. Progress cleaning.
4. Protection of installed construction.

B. Related Requirements:

1. Section 011000 "Summary" for limits on use of Project site.
2. Section 024119 "Selective Demolition" for demolition and removal of selected portions of the building.

1.3 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.

1.4 INFORMATIONAL SUBMITTALS

A. Cutting and Patching Plan: Submit plan describing procedures at least 10 days prior to the time cutting and patching will be performed. Include the following information:

1. Extent: Describe reason for and extent of each occurrence of cutting and patching.
2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
3. Products: List products to be used for patching and firms or entities that will perform patching work.
4. Dates: Indicate when cutting and patching will be performed.
5. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate length of time permanent services and systems will be disrupted.

a. Include description of provisions for temporary services and systems during interruption of permanent services and systems.

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

1.5 QUALITY ASSURANCE

A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.

2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:

a. Primary operational systems and equipment.
b. Fire separation assemblies.
c. Air or smoke barriers.
d. Fire-suppression systems.
e. Plumbing piping systems.
f. Mechanical systems piping and ducts.
g. Control systems.
h. Communication systems.
i. Fire-detection and -alarm systems.
j. Conveying systems.
k. Electrical wiring systems.
l. Operating systems of special construction.

3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:

a. Water, moisture, or vapor barriers.
b. Membranes and flashings.
c. Exterior curtain-wall construction.
d. Sprayed fire-resistive material.
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

B. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

1. For projects requiring compliance with sustainable design and construction practices and procedures, use products for patching that comply with sustainable design requirements.

B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
4. Verify existing structural members for replacement to verify if material is suitable for reuse.
B. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:

1. Description of the Work.
2. List of detrimental conditions, including substrates.
3. List of unacceptable installation tolerances.
4. Recommended corrections.

C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect.

3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings. If discrepancies are discovered, notify Architect promptly.

3.4 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.

1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.

F. Tools and Equipment: Where possible, select tools or equipment that minimize production of excessive noise levels.

G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other portions of the Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
   1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
   2. Allow for building movement, including thermal expansion and contraction.
   3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

J. Repair or remove and replace damaged, defective, or nonconforming Work.

3.5 CUTTING AND PATCHING

A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
   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. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

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

E. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching according to requirements in Section 011000 "Summary."

F. 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 minimize interruption to occupied areas.

G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
5. Proceed with patching after construction operations requiring cutting are complete.

H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
   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, prepare substrate and apply primer and intermediate paint coats appropriate for substrate 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 restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS CLEANING

A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
   a. Use containers intended for holding waste materials of type to be stored.

4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Protection of Existing Items: Provide protection and ensure that existing items to remain undisturbed by construction are maintained in condition that existed at commencement of the Work.

C. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION 017300
SECTION 024119 - SELECTIVE DEMOLITION

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. Demolition and removal of selected portions of building or structure.
2. Removal and reinstallation of selected items.
3. Salvage of existing items to be reused or recycled.

B. Related Requirements:

1. Section 011000 "Summary" for restrictions on use of the premises, Owner-occupancy requirements, and phasing requirements.
2. Section 017300 "Execution" for cutting and patching procedures.
3. Section 070150.19 “Preparation for Reroofing” for selective demolition associated with roofing work.

1.3 DEFINITIONS

A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.

B. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.

C. Existing to Remain (ETR): Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

D. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.

1.4 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.
1.5 INFORMATIONAL SUBMITTALS


B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control, and for noise control. Indicate proposed locations and construction of barriers.

C. Schedule of Selective Demolition Activities: Indicate the following:
   1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
   2. Interruption of utility services. Indicate how long utility services will be interrupted.
   3. Coordination for shutoff, capping, and continuation of utility services.
   4. Use of elevator and stairs.
   5. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.

D. Predemolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, which might be misconstrued as damage caused by demolition operations. Submit before Work begins.

E. Warranties: Documentation indicating that existing warranties are still in effect after completion of selective demolition.

1.6 CLOSEOUT SUBMITTALS

A. Inventory: Submit a list of items that have been removed and salvaged.

1.7 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
   1. Do not disturb hazardous materials or items suspected of containing hazardous materials except under procedures specified elsewhere in the Contract Documents.

E. Storage or sale of removed items or materials on-site is not permitted.
F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
   1. Maintain fire-protection facilities in service during selective demolition operations.

1.8 COORDINATION

A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
   1. At Great Hall below, perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
      a. Following survey, Owner, Architect, and Contractor to examine Great Hall for any demolition disturbances.
   2. At Great Hall below, perform surveys as the Work progress to detect hazards resulting from construction activities.
      a. Following survey, Owner, Architect, and Contractor to examine Great Hall for any construction disturbances.
   3. At the Great Hall below, perform final walk through with Owner, Architect, and Contractor to examine Great Hall is in satisfactory condition.

C. Survey of Existing Conditions: Record existing conditions by use of measured drawings and preconstruction photographs or video.
1. Inventory and record the condition of items to be removed and salvaged. Provide photographs or video of conditions that might be misconstrued as damage caused by salvage operations.

2. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.

1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
2. Arrange to shut off utilities with utility companies.
3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
   a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
   b. Equipment to Be Removed: Disconnect and cap services and remove equipment.
   c. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
   d. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
   e. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.

3.3 PROTECTION

A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
4. Cover and protect furniture, furnishings, and equipment that have not been removed.
B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

1. Strengthen or add new supports when required during progress of selective demolition.

C. Remove temporary barricades and protections where hazards no longer exist.

3.4 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Proceed with selective demolition systematically, from lower to higher level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
5. Maintain adequate ventilation when using cutting torches.
6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
9. Dispose of demolished items and materials promptly.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Removed and Salvaged Items:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.
5. Protect items from damage during transport and storage.
D. Removed and Reinstalled Items: Including but not limited to steel screens and posts, fence posts and gates, ships’ ladders, handrails, concrete pavers, and other items as indicated on drawings.
   1. Carefully remove items.
   2. Prepare and finish steel and galvanized items in accordance with Section 099600 “High-Performance Coatings.”
   3. Reinstall items at removal locations. Provide new fasteners and anchorage as required.

E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

3.5 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, and then remove concrete between saw cuts.

B. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.

3.6 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
   1. Do not allow demolished materials to accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

B. Burning: Do not burn demolished materials.

3.7 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119
SECTION 034500 - PRECAST ARCHITECTURAL CONCRETE

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. Architectural precast concrete stair treads and risers.

1.3 DEFINITIONS
   A. Design Reference Sample: Sample of approved architectural precast concrete color, finish and texture, preapproved by Architect.

1.4 PREINSTALLATION MEETINGS
   A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS
   A. Product Data: For each type of product.
   B. Design Mixtures: For each precast concrete mixture. Include compressive strength and water-absorption tests.
   C. Shop Drawings:
      1. Detail fabrication and installation of architectural precast concrete units.
      2. Indicate locations, plans, elevations, dimensions, shapes, and cross sections of each unit.
      3. Indicate joints, and extent and location of each surface finish.
      4. Indicate locations, tolerances, and details of anchorage devices to be embedded in or attached to structure or other construction.
      5. Include plans and elevations showing unit location and sequence of erection for special conditions.
      6. Indicate location of each architectural precast concrete unit by same identification mark placed on unit.
      7. Indicate relationship of architectural precast concrete units to adjacent materials.
8. If design modifications are proposed to meet performance requirements and field conditions, submit design calculations and Shop Drawings. Do not adversely affect the appearance, durability, or strength of units when modifying details or materials and maintain the general design concept.

D. Samples: Design reference samples for initial verification of design intent, for each type of finish indicated on exposed surfaces of architectural precast concrete units, in sets of three, representative of finish, color, and texture variations expected; approximately 12 by 12 by 2 inches.

E. Delegated-Design Submittal: For architectural precast concrete indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1. Show precast concrete stair tread and riser types, connections, types of reinforcement, including special reinforcement, and concrete cover on reinforcement. Indicate location, type, magnitude, and direction of loads imposed on the precast concrete stair treads and risers, and loads imposed on the stair structure from these precast elements.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and fabricator.

B. Material Certificates: For the following items:

1. Cementitious materials.
2. Reinforcing materials.
3. Admixtures.

C. Material Test Reports: For aggregates.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Installer shall demonstrate a record of at least five years of successful installation of precast units similar to those required for this project.

B. Fabricator Qualifications: A firm that assumes responsibility for engineering architectural precast concrete units to comply with performance requirements. This responsibility includes preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.

1. Testing Agency Qualifications: An independent testing agency, acceptable to authorities having jurisdiction, qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.

C. Quality-Control Standard: For manufacturing procedures and testing requirements, quality-control recommendations, and dimensional tolerances for types of units required, comply with
PCI MNL 117, "Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products."

1.8 COORDINATION
A. Furnish loose connection hardware and anchorage items to be embedded in or attached to other construction without delaying the Work. Provide locations, setting diagrams, templates, instructions, and directions, as required, for installation.

1.9 DELIVERY, STORAGE, AND HANDLING
A. Deliver architectural precast concrete units in such quantities and at such times to limit unloading units temporarily on the ground or other rehandling.
B. Support units during shipment on nonstaining shock-absorbing material.
C. Store units with adequate dunnage and bracing and protect units to prevent contact with soil, to prevent staining, and to prevent cracking, distortion, warping or other physical damage.
D. Place stored units so identification marks are clearly visible, and units can be inspected.
E. Handle and transport units in a manner that avoids excessive stresses that cause cracking or damage.
F. Lift and support units only at designated points indicated on Shop Drawings.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS
A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design architectural precast concrete units, including attachment to building construction.
B. Design Standards: Comply with ACI 318 and design recommendations of PCI MNL 120, "PCI Design Handbook - Precast and Prestressed Concrete," applicable to types of architectural precast concrete units indicated.
C. Structural Performance of Stairs: Precast architectural concrete tread and riser units shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated.
   1. Uniform Load: 100 lbf/sq. ft.
   2. Concentrated Load: 300 lbf applied on an area of 4 sq. in.
   3. Uniform and concentrated loads need not be assumed to act concurrently.
   4. Limit deflection of treads and risers to L/720 or amount allowed by precast architectural concrete stair tread and riser manufacturer, whichever is less.
D. Finish: Walking surfaces shall have minimum coefficient of friction of 0.60, wet and dry.

2.2 MOLD MATERIALS

A. Molds: Rigid, dimensionally stable, non-absorptive material, warp and buckle free, that provides continuous and true precast concrete surfaces within fabrication tolerances indicated; nonreactive with concrete and suitable for producing required finishes.

2.3 REINFORCING MATERIALS

A. Reinforcing Bars: ASTM A615/A615M, Grade 60, deformed.

B. Plain-Steel Welded Wire Reinforcement: ASTM A185/A185M, fabricated from as-drawn steel wire into flat sheets.


D. Supports: Suspend reinforcement from back of mold or use bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place according to PCI MNL 117.

2.4 MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I or Type II, gray, unless otherwise indicated.

B. Normal-Weight Aggregates: Except as modified by PCI MNL 117, ASTM C33/C33M, with coarse aggregates complying with Class 5S. Stockpile fine and coarse aggregates for each type of exposed finish from a single source (pit or quarry) for Project.

C. Water: Potable; free from deleterious material that may affect color stability, setting, or strength of concrete and complying with chemical limits of PCI MNL 117.

D. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and to not contain calcium chloride, or more than 0.15 percent chloride ions or other salts by weight of admixture.


2. Water-Reducing Admixtures: ASTM C494/C494M, Type A.

3. High-Range, Water-Reducing Admixture: ASTM C494/C494M, Type F.

E. Grout: Cement shall be gray Portland cement, free from soluble salts and complying with ASTM C150, Type I or Type III High Early Strength, one brand throughout work. Strength shall be 4,000 psi in 28 days.

F. Sealer: Apply one coat of penetrating sealer to all surfaces of precast architectural concrete units. Sealer shall be non-staining, penetrating material, suitable for exterior use, type which does not discolor or darken the surface.
2.5 CONCRETE MIXTURES

A. Prepare design mixtures for each type of precast concrete required.

B. Normal-Weight Concrete Mixtures: Proportion full-depth mixture by either laboratory trial batch or field test data methods according to ACI 211.1, with materials to be used on Project, to provide normal-weight concrete with the following properties:


C. Water Absorption: Maximum 6 percent by weight, tested according to ASTM C642.

D. Air Entrainment: Precast elements exposed to weather or vulnerable to deicers shall have 6 percent +/- 1.5 percent air entrainment.

E. When included in design mixtures, add other admixtures to concrete mixtures according to manufacturer's written instructions.

2.6 MOLD FABRICATION

A. Maintain molds to provide completed architectural precast concrete units of shapes, lines, and dimensions indicated, within fabrication tolerances specified.

1. Form joints are not permitted on faces exposed to view in the finished work.

2.7 FABRICATION

A. Cast-in Anchors, Inserts, Plates, Angles, and Other Anchorage Hardware: Fabricate anchorage hardware with sufficient anchorage and embedment to comply with design requirements. Accurately position for attachment of loose hardware, and secure in place during precasting operations. Locate anchorage hardware where it does not affect position of main reinforcement or concrete placement.

B. Furnish loose hardware items including steel plates, clip angles, seat angles, anchors, dowels, cramps, hangers, and other hardware shapes for securing architectural precast concrete units to supporting and adjacent construction.

C. Cast-in accessories in architectural precast concrete units as indicated on the Contract Drawings.

D. Cast-in openings larger than 10 inches in any dimension. Do not drill or cut openings without Architect's approval.

E. Reinforcement: Comply with recommendations in PCI MNL 117 for fabricating, placing, and supporting reinforcement.

1. Clean reinforcement of loose rust and mill scale, earth, and other materials that reduce or destroy the bond with concrete. When damage to epoxy-coated reinforcing exceeds limits
specified in ASTM A775/A775M, repair with patching material compatible with coating material and epoxy coat bar ends after cutting.

2. Accurately position, support, and secure reinforcement against displacement during concrete-placement and consolidation operations. Completely conceal support devices to prevent exposure on finished surfaces.

3. Install welded wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh spacing and wire tie laps, where required by design. Offset laps of adjoining widths to prevent continuous laps in either direction.

F. Reinforce architectural precast concrete units to resist handling, transportation, and erection stresses and specified in-place loads.

G. Comply with requirements in PCI MNL 117 and requirements in this Section for measuring, mixing, transporting, and placing concrete. After concrete batching, no additional water may be added.

H. Place concrete in a continuous operation to prevent cold joints or planes of weakness from forming in precast concrete units.

I. Thoroughly consolidate placed concrete by internal and external vibration without dislocating or damaging reinforcement and built-in items, and minimize pour lines, honeycombing, or entrapped air voids on surfaces. Use equipment and procedures complying with PCI MNL 117.

J. Comply with PCI MNL 117 for hot- and cold-weather concrete placement.

K. Identify pickup points of architectural precast concrete units and orientation in structure with permanent markings, complying with markings indicated on Shop Drawings. Imprint or permanently mark casting date on each architectural precast concrete unit on a surface that does not show in finished structure.

L. Cure concrete, according to requirements in PCI MNL 117, by moisture retention without heat or by accelerated heat curing using low-pressure live steam or radiant heat and moisture. Cure units until compressive strength is high enough to ensure that stripping does not have an effect on performance or appearance of final product.

M. Discard and replace architectural precast concrete units that do not comply with requirements, including structural, manufacturing tolerance, and appearance, unless repairs meet requirements in PCI MNL 117 and Architect's approval.

2.8 FABRICATION TOLERANCES

A. Fabricate architectural precast concrete units to shapes, lines, and dimensions indicated so each finished unit complies with PCI MNL 117 product tolerances as well as position tolerances for cast-in items.

B. Fabricate architectural precast concrete units to shapes, lines, and dimensions indicated so each finished unit complies with the following product tolerances:

1. Overall Height and Width of Units, Measured at the Face Exposed to View: As follows:
a. 10 feet or under, plus or minus 1/8 inch.
b. 10 to 20 feet, plus 1/8 inch, minus 3/16 inch.
c. 20 to 40 feet, plus or minus 1/4 inch.
d. Each additional 10 feet, plus or minus 1/16 inch.

2. Local Smoothness: 1/8 inch/10 feet.

2.9 FINISHES

A. Exposed faces shall be free of joint marks, grain, and other obvious defects. Corners, including false joints shall be uniform, straight, and sharp.

2.10 SOURCE QUALITY CONTROL

A. General: Strength of precast concrete units is considered deficient if units fail to comply with ACI 318 requirements for concrete strength.

B. Testing: If there is evidence that strength of precast concrete units may be deficient or may not comply with ACI 318 requirements, precaster will employ an independent testing agency to obtain, prepare, and test cores drilled from hardened concrete to determine compressive strength according to ASTM C42/C42M and ACI 318.

1. A minimum of three representative cores shall be taken from units of suspect strength, from locations directed by Architect.
2. Test cores in an air-dry condition.
3. Strength of concrete for each series of three cores is considered satisfactory if average compressive strength is equal to at least 85 percent of 28-day design compressive strength and no single core is less than 75 percent of 28-day design compressive strength.
4. Report test results in writing on same day that tests are performed, with copies to Architect, Contractor, and precast concrete fabricator. Test reports include the following:

a. Project identification name and number.
b. Date when tests were performed.
c. Name of precast concrete fabricator.
d. Name of concrete testing agency.
e. Identification letter, name, and type of precast concrete unit(s) represented by core tests; design compressive strength; type of break; compressive strength at breaks, corrected for length-diameter ratio; and direction of applied load to core in relation to horizontal plane of concrete as placed.

C. Patching: If core test results are satisfactory and precast concrete units comply with requirements, clean and dampen core holes and solidly fill with precast concrete mixture that has no coarse aggregate, and finish to match adjacent precast concrete surfaces.

D. Defective Units: Discard and replace recast architectural concrete units that do not comply with acceptability requirements in PCI MNL 117, including concrete strength, manufacturing tolerances, and color and texture range. Chipped, spalled, or cracked units may be repaired, subject to Architect's approval. Architect reserves the right to reject precast units that do not
match approved samples, sample panels, and mockups. Replace unacceptable units with precast concrete units that comply with requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine supporting structure and conditions for compliance with requirements for installation tolerances, bearing surface tolerances, and other conditions affecting performance of the Work.

B. Do not install precast concrete units until supporting cast-in-place concrete has attained minimum allowable design compressive strength and supporting steel or other structure is structurally ready to receive loads from precast concrete units.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install clips, hangers, bearing pads, and other accessories required for connecting architectural precast concrete units to supporting members and backup materials.

B. Erect architectural precast concrete level, plumb, and square within specified allowable tolerances. Provide temporary supports and bracing as required to maintain position, stability, and alignment of units until permanent connections are completed.

C. Connect architectural precast concrete units in position as indicated on drawings and approved Shop Drawings. Remove temporary shims, wedges, and spacers as soon as practical after connecting and grouting are completed.

3.3 ERECTION TOLERANCES

A. Erect architectural precast concrete units level, plumb, square, and in alignment, without exceeding the following noncumulative erection tolerances:
   
   1. Comply with current New York City Building Codes

3.4 REPAIRS

A. Repair architectural precast concrete units if permitted by Architect. Architect reserves the right to reject repaired units that do not comply with requirements.

B. Mix patching materials and repair units so cured patches blend with color, texture, and uniformity of adjacent exposed surfaces and show no apparent line of demarcation between original and repaired work, as determined by Architect.
C. Remove and replace damaged architectural precast concrete units when repairs do not comply with requirements.

3.5 CLEANING

A. Clean surfaces of precast concrete units exposed to view.

B. Clean deleterious material from concrete surfaces and adjacent materials immediately.

C. Clean exposed surfaces of precast concrete units after erection and completion of joint treatment to remove weld marks, other markings, dirt, and stains.

1. Perform cleaning procedures according to precast concrete fabricator's recommendations. Protect other work from staining or damage due to cleaning operations.

2. Do not use cleaning materials or processes that could change the appearance of exposed concrete finishes or damage adjacent materials.

END OF SECTION 034500
SECTION 055000 - METAL FABRICATIONS

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. Removal and reinstallation of existing steel items as indicated on drawings, including but not limited to the following:

   a. Steel screens and posts.
   b. Fence posts and gates.
   c. Ships’ ladders.
   d. Ladders
   e. Handrails.

2. Miscellaneous framing and supports.

1.3 COORDINATION

A. Coordinate installation of metal fabrications that are anchored to or that receive other work.

1.4 ACTION SUBMITTALS

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

B. Delegated-Design Submittal: For anchorage of all removed and reinstalled items, and miscellaneous framing and supports; including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For professional engineer.

B. Research/Evaluation Reports: For post-installed anchors, from ICC-ES.
1.6 FIELD CONDITIONS

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

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design anchorage for steel railing and supports.

B. Structural Performance: Railings, including attachment to building construction, shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

1. Handrails and Top Rails of Guards:
   a. Uniform load of 50 lbf/ft applied in any direction.
   b. Concentrated load of 200 lbf applied in any direction.
   c. Uniform and concentrated loads need not be assumed to act concurrently.

2. Infill of Guards:
   a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
   b. Infill load and other loads need not be assumed to act concurrently.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.

2.2 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

C. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.

D. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.

2.3 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

C. Galvanize all miscellaneous framing and supports.

2.4 FASTENERS

A. General: Unless otherwise indicated, provide Type 316 stainless-steel fasteners for exterior use. Select fasteners for type, grade, and class required.

B. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F 593; with hex nuts, ASTM F 594; and, where indicated, flat washers; Alloy Group 2.

C. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.

D. Post-Installed Anchors: Chemical anchors.


2.5 FABRICATION, GENERAL

A. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

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

3.2 REMOVAL AND REINSTALLATION OF STEEL ITEMS

A. Remove steel items in accordance with Section 024119 “Selective Demolition.”
B. Reinstall steel items to comply with requirements of items being supported, including and requirements indicated on Shop Drawings and as determined during Delegated Design.

3.3 INSTALLATION OF MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

END OF SECTION 055000
SECTION 061000 - ROUGH CARPENTRY

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. Wood blocking and nailers.
2. Wood shims.

1.3 DEFINITIONS

A. Dimension Lumber: Lumber of 2 inches nominal size or greater but less than 5 inches nominal size in least dimension.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1. 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. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

1.5 INFORMATIONAL SUBMITTALS

A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

B. Evaluation Reports: For the following, from ICC-ES:

1. Wood-preservative-treated wood.
1.6 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Build mockup of each new assembly, including but not limited to the following:
   a. At each of the two types of parapets at which manufactured coping assemblies will be installed.
   b. At the parapet at which a manufactured fascia assembly will be installed.
   c. HVAC duct penetration curb.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Stack wood products flat with spacers beneath and between each bundle to provide air circulation. Protect wood products from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Grade lumber 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. Dress lumber, S4S, unless otherwise indicated.

B. Maximum Moisture Content of Lumber: 19 percent unless otherwise indicated.

C. Wood blocking: Douglas fir dimensional lumber, Grade 4 Common, moisture content 19 percent or less.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with ground, Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.
1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no
arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use
material that is warped or that 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 all rough carpentry unless otherwise indicated.

2.3 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other
construction, including the following:

1. Blocking.
2. Nailers.
3. Rooftop equipment bases and support curbs.

B. Dimension Lumber Items: Construction or No. 2 grade lumber of any species.

C. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber
of any species may be used provided that it is cut and selected to eliminate defects that will
interfere with its attachment and purpose.

D. For blocking 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.

E. Shims: Utility grade cedar, 10-inch wide, 3/4-inch thick tapered to 1/8-inch thick.

2.4 FASTENERS

A. General: Fasteners shall be of size and type indicated and shall comply with requirements
specified in this article for material and manufacture.

1. Where rough carpentry is exposed to weather, pressure-preservative treated, or in area of
high relative humidity, provide fasteners with hot-dip zinc coating complying with
ASTM A 153/A 153M, or of Type 304 stainless steel.

B. Nails: Common or roofing nails, min.6d, galvanized; or of Type 304 stainless steel.

C. Screws: #11 or #12 wood screws, galvanized; or of Type 304 stainless steel.

D. Concrete Screw: 300 Series stainless steel, 1/4 inch by 4 inch, Phillips head, as manufactured by
DeWalt, trade name Aggre-Gator, or approved equal.
E. Masonry Anchor: Stainless steel drive and zamac alloy body, length for minimum 1-1/2 inch embedment, as manufactured by Powers Fastening Inc., trade name Zamac Nailin, or approved equal.

F. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

G. Threaded Rods and Nuts: 3/4" minimum diameter, 300-series stainless steel.

H. Epoxy Adhesive: Two-part injection anchoring system, brand designation T308+ Epoxy, as manufactured by Powers Fastening, Inc., or approved equal.

I. Mineral Wool Blanket Insulation: ASTM C 665 Type I, ASTM E 136, maximum flame spread index 0, smoke developed index 0.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

B. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

C. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.

D. Sort and select lumber so that natural characteristics do 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.

E. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

1. Use inorganic boron for items that are continuously protected from liquid water.
2. Use copper naphthenate for items not continuously protected from liquid water.

F. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

2. ICC-ES evaluation report for fastener.

G. Use minimum 6D nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials.
Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.

H. Install fasteners within 3 inches of ends of wood blocking lengths, and at 8-inch spacing, staggered, between ends.

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.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

C. Install HVAC curb assemblies in two increments.
1. First increment to enable installation of base flashings and temporary provisions to prevent water entry at and around the duct stubs.
2. Second increment, in conjunction with installation of new ductwork (by others), to enable installation of base flashings at final required height and installation of metal counterflashings between ducts and curbs.

END OF SECTION 061000
SECTION 066116 - SOLID SURFACING FABRICATIONS

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. Solid surface material fabrications.

1.3 ACTION SUBMITTALS

A. Product Data: For solid surfacing materials.

B. Shop Drawings: For fabrications.

   1. Show direction of directional pattern, if any.

C. Samples for Initial Selection: For each type of material exposed to view.

D. Qualification Data: For fabricator.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For solid surface material to include in maintenance manuals. Include Product Data for care products used or recommended by Installer and names, addresses, and telephone numbers of local sources for products.

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate items similar to that required for this Project, and whose products have a record of successful in-service performance.

1.6 FIELD CONDITIONS

A. Field Measurements: Verify dimensions of solid surfacing fabrications by field measurements.
PART 2 - PRODUCTS

2.1 SOLID SURFACE MATERIALS

A. Solid Surface Material: Quartz agglomerate solid sheets consisting of quartz aggregates bound together with a matrix of filled plastic resin and complying with ICPA SS-1, except for composition.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. DuPont; DuPont de Nemours, Inc.
   b. Formica Corporation.
   c. Wilsonart LLC.

2. Colors and Patterns: Matte Black

2.2 SOLID SURFACING FABRICATION

A. Fabricate according to solid surface material manufacturer's written instructions and to the AWI/AWMAC/WI's "Architectural Woodwork Standards."

1. Grade: Premium.

2.3 INSTALLATION MATERIALS

A. Adhesive: Product recommended by solid surface material manufacturer.

B. Sealant: Comply with applicable requirements in Section 079200 "Joint Sealants."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates to receive solid surface material and conditions under which items will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install level to a tolerance of 1/8 inch in 8 feet, 1/4 inch maximum.
B. Secure items to substrate with adhesive according to solid surface material manufacturer's written instructions. Carefully dress joints smooth, remove surface scratches, and clean entire surface.

END OF SECTION 066116
SECTION 070150.19 - PREPARATION FOR REROOFING

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. Removal of existing membrane, damaged concrete pavers, protection board, pedestals, insulation boards, and base sheet down to existing deck.
2. Removal of base flashings.
3. Removal of other roofing-related components as indicated.
4. Removal and setting aside for reuse undamaged concrete pavers.

B. Related Requirements:

1. Section 011000 "Summary" for use of the premises and phasing requirements.
2. Section 024119 “Selective Demolition” for removal and reinstallation of existing rooftop items.

1.3 DEFINITIONS

A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Include plans, sections, and details.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Photographs or Videotape: At Roof level and Great Hall below, show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces, that might be misconstrued as having been damaged by reroofing operations. Submit before Work begins.
1.6 QUALITY ASSURANCE

A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty specified herein.

B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning roofing removal. Comply with hauling and disposal regulations of authorities having jurisdiction.

C. Reroofing Conference: Conduct conference at Project site.
   1. Meet with Owner; Architect; Owner's insurer if applicable; testing and inspecting agency representative; roofing system manufacturer's representative; roofing Installer project manager, superintendent, and foreman; and installers whose work interfaces with or affects reroofing, including installers of roof accessories and roof-mounted equipment.
   2. Review methods and procedures related to roofing system tear-off and replacement, including, but not limited to, the following:
      a. Reroofing preparation, including roofing system manufacturer's written instructions.
      b. Temporary protection requirements for existing roofing system components that are to remain.
      c. Existing roof drains and roof drainage during each stage of reroofing, and roof-drain plugging and plug removal.
      d. Construction schedule and availability of materials, Installer's personnel, equipment, and facilities needed to avoid delays.
      e. Existing roof deck conditions requiring notification of Architect.
      f. Existing roof deck removal procedures and Owner notifications.
      g. Condition and acceptance of existing roof deck and base flashing substrate for reuse.
      h. Structural loading limitations of roof deck during reroofing.
      i. Base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that affect reroofing.
      j. HVAC shutdown and sealing of air intakes.
      k. Shutdown of fire-suppression, -protection, and -alarm and -detection systems.
      l. Asbestos removal and discovery of asbestos-containing materials.
      m. Governing regulations and requirements for insurance and certificates if applicable.
      n. Existing conditions that may require notification of Architect before proceeding.

1.7 FIELD CONDITIONS

A. Existing Roofing System: As indicated on drawings.

B. Owner will occupy portions of building immediately below reroofing area. Conduct reroofing so Owner's operations are not disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.
1. Coordinate work activities daily with Owner so Owner can 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 live loads on roof to 60 psf. Do not stockpile material on roof.

F. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.

   1. Limit removal area to size which can be made watertight the same day.

G. Hazardous Materials: It is not expected that hazardous materials, such as asbestos-containing materials, will be encountered in the Work.

   1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

PART 2 - PRODUCTS

2.1 TEMPORARY PROTECTION MATERIALS

   A. Expanded Polystyrene (EPS) Insulation: ASTM C 578.

   B. Plywood: DOC PS1, Grade CD Exposure 1.

   C. OSB: DOC PS2, Exposure 1.

2.2 AUXILIARY REROOFING MATERIALS

   A. General: Use auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of existing and new roofing system.

PART 3 - EXECUTION

3.1 PREPARATION

   A. Where required, shut off rooftop utilities and service piping before beginning the Work.
B. Test existing roof drain lines to verify that they are not blocked or restricted. Immediately notify Architect of any blockages or restrictions.

C. 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.

D. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.

E. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.

1. Implement all necessary work to ensure primary drainage is fully functional throughout project, including when only base sheet or roofing membrane base ply is in place.
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. Do not permit water to enter into or under existing roofing system components.

3.2 ROOF TEAR-OFF

A. General:

1. Notify Owner each day of location/area of roof tear-off proposed for that day.

B. The work generally consists of the following:

1. Removal of existing membrane, damaged concrete pavers, protection board, pedestals, insulation boards, and base sheet down to existing deck.
2. Removal and setting aside for reuse undamaged concrete pavers.
   a. Leave metal cap flashing receivers in place. Do not disturb when removing existing cap flashing extensions and base flashings.
4. Removal of gravel stops, hook strips, copings, underlayments, wood, and other roofing-related components as indicated on the Drawings. Install provisions as needed to maintain watertightness in areas and at components at which removals are performed.
5. Removal of unused pipes, conduit, support brackets, and other deck-mounted or deck-penetrating items, unless otherwise indicated herein. Patch deck to match existing adjacent deck.
6. Removal of existing duct supports and sheds, including shed metal panel walls and steel structural components, down to roof decks and vertical flashing surfaces.
3.3 DECK PREPARATION

A. Inspect deck after tear-off of roofing system.

B. Verify that substrates are visibly dry and free of moisture.

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 DISPOSAL

A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.

   1. Storage or sale of demolished items or materials on-site is not permitted.

B. Transport and legally dispose of demolished materials off Owner's property.

END OF SECTION 070150.19
SECTION 072100 - THERMAL INSULATION

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:


1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each product, for tests performed by a qualified testing agency.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

PART 2 - PRODUCTS

2.1 MINERAL-WOOL BLANKETS

A. Water-Repellent Mineral-Wool Blanket, Unfaced: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Industrial Insulation Group, LLC (IIG-LLC).
b. Roxul Inc.
c. Thermafiber, Inc.; an Owens Corning company.

2.2 ACCESSORIES

A. Insulation for Miscellaneous Voids:

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.

3.2 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products and applications.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.

C. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

3.3 INSTALLATION OF INSULATION IN FRAMED CONSTRUCTION

A. Blanket Insulation: Install in cavities formed by framing members according to the following requirements:
   1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
   2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.

B. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:
1. Mineral-Wool Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft..

3.4 PROTECTION

A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION 072100
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 a new roofing system, comprising two different roofing assemblies: An Inverted Roof Membrane Assembly ("IRMA") system in Roof Areas A, B and C; and, a Conventional system in Roof Area D. See Roof Plan for Roof Area designations.

1. The IRMA system includes cementitious fill and feathering paste to correct deck slope and form crickets; a 2-ply torch-applied modified bitumen membrane; base flashings; drainage mat; extruded polystyrene insulation board, 7 inches thick; fabric mat; and, concrete pavers on low profile or high profile pedestals.

2. The Conventional system includes a torch-applied modified bitumen base sheet; tapered isocyanurate insulation board in adhesive, starting thickness 6 inches; a cover board in adhesive; a 2-ply torch-applied modified bitumen membrane; and, base flashings.

B. Related Requirements:

1. Section 024119 "Selective Demolition" for removed and reinstalled items, including but not limited to concrete pavers.

2. Section 075900 "Leak Detection System" for leak detection system.

3. Section 076200 "Sheet Metal Flashing and Accessories" for metal roof flashings and counterflashings.

4. Section 077100 "Roof Specialties" for premanufactured metal coping and fascia assemblies.

5. Section 079200 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.3 DEFINITIONS


1.4 PREINSTALLATION MEETINGS

A. Preinstallation Roofing Conference: Participate in conference at Project site.
1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer’s project supervisor and foreman, roofing system manufacturer's representative, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.5 ACTION SUBMITTALS

A. Product Data: For each specified product.

B. Shop Drawings: Include plans, sections, details, and attachments to other work, including the following:
   1. Base flashings and membrane terminations.
   2. Flashing details at penetrations.
   3. Roof Insulation: Layout, profiles and product components, including anchorage, accessories and finishes of system to be installed

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer, manufacturer, and testing agency.

B. Manufacturer Certificates:
   1. Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for warranty.

C. Product Test Reports: For roof membrane and insulation, tests performed by a qualified testing agency, indicating compliance with specified requirements.

D. Field quality-control reports.

E. Sample Warranties: For manufacturer's warranty(s).
1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing system to include in maintenance manuals.

1.8 QUALITY ASSURANCE

A. Acceptable Products: Provide primary roofing products, including each type of membrane sheet and insulation board, all manufactured in the United States, supplied by a single manufacturer which has been successfully producing the specified types of primary products for not less than 10 years. Provide secondary or accessory products which are acceptable to the manufacturer of the primary roofing products.

B. Product Quality Assurance Program: Primary roofing materials shall be manufactured under a quality management system that is monitored regularly by a third party auditor under the ISO 9001 audit process. A certificate of analysis for reporting/confirming the tested values of the actual material being supplied for the project will be required prior to project close-out.

C. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.

D. Project Acceptance: Submit a completed manufacturer's application for roof warranty form along with shop drawings of the roofs showing all dimensions, penetrations, and details.

1. The form shall contain all the technical information applicable to the project including but not limited to deck types, roof slopes, base sheet and/or insulation assemblies (with method of attachment, and fastener type), and manufacturer's membrane assembly proposed for installation.

2. The form shall also contain accurate and complete information requested including proper names, addresses, zip codes and telephone numbers.

3. The project must receive approval, through this process, prior to shipment of materials to the project site.

E. Scope of Work: The work to be performed under this specification shall include but is not limited to the following:

1. Attend necessary job meetings and furnish competent and full time supervision, experienced roof mechanics, and all materials, tools, and equipment necessary to complete, in an acceptable manner, the roof installation in accordance with this specification.

2. Comply with the latest written application instructions of the manufacturer of the primary roofing products. In addition, application practice shall comply with requirements and recommendations contained in the latest edition of the Handbook of Accepted Roofing Knowledge (HARK) as published by the National Roofing Contractor's Association, amended to include the acceptance of a phased roof system installation.

F. Local Regulations: Conform to regulations of public agencies, including any specific requirements of the city and/or state of jurisdiction.
G. Manufacturer Requirements: The primary roofing materials manufacturer shall provide direct trained company personnel to attend necessary job meetings, perform periodic inspections as necessary, and conduct a Punch List and final inspection upon substantial completion and final completion of the project, respectively.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Storage: Store materials out of direct exposure to the elements. Store roll goods on a clean, flat and dry surface. All material stored on the roof overnight shall be stored on pallets. Rolls of roofing must be stored on ends. Store materials on the roof in a manner so as to preclude overloading of deck and building structure. Store materials such as solvents, adhesives and asphalt cutback products away from open flames, sparks or excessive heat. Cover all material using a breathable cover such as a canvas. Polyethylene or other non-breathable plastic coverings are not acceptable.

C. Handling: Handle all materials in such a manner as to preclude damage and contamination with moisture or foreign matter. Handle rolled goods to prevent damage to edges or ends.

D. Damaged Material: Any materials that are found to be damaged or stored in any manner other than stated above will be automatically rejected, removed and replaced at the Contractor's expense.

1.10 FIELD CONDITIONS

A. Requirements Prior to Job Start:

1. Notification: Give a minimum of 5 days’ notice to the Owner and manufacturer prior to commencing any work and notify both parties on a daily basis of any change in work schedule.
2. Safety: Familiarize every member of the application crew with all fire and safety regulations recommended by OSHA, NRCA and other industry or local governmental groups.

1.11 WARRANTY

A. Membrane Roofing System Warranty: Upon successful completion of the project, and after all post-installation procedures have been completed, furnish a 30-year No-Dollar-Limit labor and material full system warranty for the IRMA and Conventional roof systems.

1. The full system includes all materials produced by the Manufacturer.
2. Warranty also includes coping and fascia assemblies specified in Section 077100 “Roof Specialties.”
3. The warranty shall provide coverage against deficiencies in material and labor resulting in roof leakage, with the costs of material and labor to correct the deficiencies the responsibility of the Manufacturer.

4. The IRMA warranty shall include a provision whereby the Manufacturer is responsible for the cost of removing and restoring overburden components (drainage mat, insulation, fabric mat, pedestals, pavers) to investigate and repair a deficiency covered under the warranty.

PART 2 - PRODUCTS

2.1 IRMA ROOFING SYSTEM

A. Cementitious Fill: One component, rapid hardening, early strength gain cementitious patching mortar, as manufactured by Sika Corp. under trade name SikaQuick-1000.

1. For thickness greater than 1 inch, extend with 3/8 inch pea gravel.

B. Roofing Membrane:

1. Base Ply: Torch grade modified bitumen base ply, meeting ASTM D 6163 Type I, Grade S, as manufactured by Siplast under trade name Paradiene 20 EG TG.

2. Top Ply: Torch grade modified bitumen waterproofing ply, meeting ASTM D 6163 Type II, Grade S, as manufactured by Siplast under trade name Teranap1M Sand/Sand.

C. Base Flashing:

1. Base Ply: Modified bitumen base ply meeting ASTM 6163 Type II, Grade S, as manufactured by Siplast under trade name Paradiene 20 EG TG.

2. Base Ply, Wood: Modified bitumen base ply with adhesive backing, meeting ASTM 6163 Type I, Grade S, as manufactured by Siplast under trade name Paradiene 20 SA.

3. Top Ply: Modified bitumen ply with continuous metal-foil surfacing, meeting ASTM 6298, as manufactured by Siplast under trade name Veral Aluminum.

4. PMMA-Based Reinforced: Multi-component PMMA resin, cure catalyst, and reinforcing fleece, as manufactured by Siplast under trade names Parapro Flashing Resin, Pro Catalyst, and Pro Fleece.

D. Drainage Mat: Molded polystyrene core, bonded geotextile fabric both sides, as manufactured by Siplast, under trade name Paradrain Extensive Drainage Mat.

E. Insulation Board: Rigid extruded polystyrene, 3 inch thick (max.), 2-foot x 8-foot, edge drainage channels, ASTM D1621 compressive strength 60 psi, as manufactured by Dow Chemical Co., under brand name Styrofoam RoofMate. Total thickness: 7 inch.

F. Fabric Mat: Nonwoven geotextile fabric, 3.8 oz/yard weight (min.), as manufactured by Siplast, under trade name Paradrain 40 Filter Fabric.

G. Pedestals/Shims:
1. Low-profile, for field of roof: As manufactured by Hanover Architectural Products, under trade name Rubber Pedestal and Rubber Leveling Shims.

2. High-profile, for pavers over north side cricket in min. 5/max. 6 foot wide area in Areas A, B and C, and for aluminum plate over concrete curbs: As manufactured by Hanover Architectural Products, under trade name High-Tab Pedestal and Leveling Shims.

H. Concrete Pavers: Precast, 23-1/2 inch x 23-1/2 inch x 2 inch thick, min. 7500 psi compressive strength, natural buff color and finish, as manufactured by Hanover Architectural Products, under brand name Prest Paver.

2.2 CONVENTIONAL ROOFING SYSTEM

A. Base Sheet: Torch grade modified bitumen base sheet, meeting ASTM D 6163 Type I Grade S, as manufactured by Siplast under trade name Irex 40.

B. Insulation Board: Closed cell polyisocyanurate foam core bonded both sides with fiber-reinforced felt facer, ASTM C1289 Type II, Class 1, Grade 3 (25 psi), tapered 1/8 inch per foot, except 1/4 inch per foot for cricket, and flat fill boards. All boards max. 4-ft x 4-ft. Maximum board thickness 2-1/2 inch within each layer. Starting thickness 6 inch. As manufactured by Siplast, under trade name Paratherm.

C. Adhesive: Single component, solvent-free polyurethane, as manufactured by Siplast, under trade name Para-Stik Insulation Adhesive.

D. Cover Board: Gypsum based, 3/8 inch thick, UL Class A, as manufactured by United States Gypsum Co., under trade name Securock.

E. Roofing Membrane:

1. Base Ply: Torch grade modified bitumen base ply, meeting ASTM D 6163 Type I, Grade S, as manufactured by Siplast under trade name Paradiene 20 EG TG.

2. Top Ply: Torch grade modified bitumen top ply, surfaced with highly reflective white granules, meeting ASTM D 6163 Type I Grade G, as manufactured by Siplast under trade name Paradiene 30 FR TG BW.

F. Base Flashing:

1. Base Ply: Modified bitumen base ply meeting ASTM 6163 Type II, Grade S, as manufactured by Siplast under trade name Paradiene 20 EG TG.

2. Base Ply, Wood: Modified bitumen base ply with adhesive backing, meeting ASTM 6163 Type I, Grade S, as manufactured by Siplast under trade name Paradiene 20 SA.

3. Top Ply: Reinforced modified bitumen ply with continuous metal-foil surfacing, meeting ASTM 6298, as manufactured by Siplast under trade name Veral Aluminum.

4. PMMA-Based Reinforced: Multi-component PMMA resin, cure catalyst, and reinforcing fleece, as manufactured by Siplast under trade names Parapro Flashing Resin, Pro Catalyst, and Pro Fleece.
2.3 ROOFING ACCESSORIES

A. Tapered Edge: Factory fabricated from expanded perlite-based insulation boards.

B. Backer Rod: Closed cell polyethylene foam, non-absorbent, compressible, chemically inert rod, in various sizes as needed for gaps of varying size between edge of deck and face of masonry.

C. Paste: Multi-component fast curing PMMA paste, as manufactured by Siplast, under trade name Pro Paste.

D. Primer, Concrete: Asphalt solvent blend, ASTM D41 Type II, as manufactured by Siplast, under trade name PA-917 LS Primer.

E. Aluminum Plate: 1/4 inch thick, 6061-T6 aluminum, diamond plate, mill finish.
   1. Furnish with edges ground smooth.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with manufacturer’s representative present, for compliance with requirements and other conditions affecting performance of the Work.
   1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely embedded in the concrete deck.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Pick up pavers and set aside whole pavers in good condition for re-use. Remove damaged and partial pavers, and remove pedestals, shims, protection board, and other items.

B. Remove duct support legs and related curbs and pitch pockets.

C. Remove sheds, including metal shed walls, metal and plywood shed roofs, shed roof flashings at adjoining buildings, and shed support/structural posts and related steel elements. Fill openings at cut-off shed posts with cementitious fill, and smooth top of fill with paste feathered to deck surface.

D. Remove existing roofing assemblies – roofing and flashing membranes, insulation board, and base sheet – down to the concrete deck surface and adjoining vertical flashing substrates.

E. In areas in which cementitious fill shall be installed, grind/prepare deck surface to white concrete.
F. At voids between edge of deck and vertical masonry substrate, remove debris to approximate 3-inch depth. Install backer rod. Apply paste to fill gap between top of backer rod and deck surface.

G. Install first increment of wood blocking at duct openings in deck and install temporary watertightness provisions at each opening, including the open top of the duct stub.

H. Maintain watertightness throughout project.

3.3 MEMBRANE ROOFING SYSTEM INSTALLATION

A. General:

1. Drawings show roofing membrane and base flashings in schematic form. Configure roofing membrane and base flashings in strict accordance with Roofing Manufacturer’s requirements and recommendations.

2. All roofing membrane and base flashing plies shall be torch applied, except for adhesive-backed first ply at wood components and PMMA-based reinforced flashing.

3. Construction of an aesthetically pleasing overall appearance of the finished roof application is a standard requirement for this project. Make necessary preparations, utilize recommended application techniques, apply the specified materials, and exercise care in ensuring that the finished application is acceptable to the Owner.

B. Areas A, B, and C IRMA Roofing:

1. Install cementitious fill to infill deck irregularities as shown on Roof Plan.

2. Install cementitious fill to form 1/4 inch per foot crickets as shown on Roof Plan. Install paste at fill edges to feather to zero down to deck. Note existing deck slope is approximately 1/4 inch per foot south to north.

3. Install base ply of roofing membrane.

4. Install .050-inch aluminum base infill where masonry flashing substrate is missing at base of wall. Prime metal.

5. Install .050-inch aluminum base at juncture between Area A deck and adjoining building’s metal sheathing panels. Prime metal.

6. Install top ply of roofing membrane.

7. Install base flashings.

C. Areas A, B, and C IRMA Overburden:

1. Install drainage mat.

2. Install insulation boards. Offset joints between layers minimum 1 foot. Hold boards back approximately 3 inches from drains.


4. Install pedestals/shims, concrete pavers and drain grating.

   a. Cut pavers as needed to fit approximately 1 inch from flashings.

   b. Install concrete pavers on low-profile pedestals in field of roof.
c. In areas above north side crickets, install concrete pavers on high-profile pedestals and shims as needed to achieve paver surface with slope of less than 1/8 inch per foot. Area above north side crickets extends from parapet to min. 5/max 6 feet from parapet.

d. At top of concrete stair in Area A, paver surfaces adjoining concrete landing shall be level with landing surface.

e. Above drains, install drain grating in place of a concrete paver. Apply 2 coats of acrylic coating to exposed surfaces of insulation board facing drain.

5. Above approximate 12-inch-wide concrete curbs in HVAC roof areas, install aluminum plate in lieu of pavers to bridge over top of curb. Support plate using high-profile pedestals/shims.

D. Area D Conventional Roofing:
1. Prime concrete deck surface and base of adjoining vertical substrates and allow to fully dry before installing base sheet.

2. Install base sheet.
3. Install .050-inch aluminum base infill where masonry flashing substrate is missing at base of wall. (See Unit Price.) Prime metal and strip bottom flange to base sheet.
4. Install tapered insulation assembly. Secure insulation to base sheet and between layers in adhesive beads spaced at 4 inches throughout, in pattern as published by Manufacturer for this spacing. Offset joints minimum 12 inch within layer. Offset joints minimum 12 inch between layers. Cut boards as needed to achieve offsets.
5. Install cover board. Secure to insulation in adhesive beads spaced at 4 inches throughout, in pattern as published by Manufacturer for this spacing. Offset joints minimum 12 inch from top insulation/cricket board layer. Cut boards as needed to achieve offsets.
6. Install roofing membrane and base flashings.

3.4 FIELD QUALITY CONTROL

A. Site Condition: Leave all areas around job site free of debris, roofing materials, equipment, and related items after completion of job.

B. Manufacturer’s Field Services During Roof Installation:

1. Arrange for a minimum of six manufacturer technical field representative inspections during installation of the manufacturer’s roofing assembly materials, in accordance with the following protocol: first inspection to observe deck condition and initial installation of IRMA roofing membrane base ply; second, to observe initial installation of IRMA roofing membrane top ply; third, initial installation of IRMA base flashing; fourth, installation of IRMA roofing membrane base ply in second IRMA Roof Area; fifth, installation of IRMA roofing membrane top ply in second IRMA Roof Area; sixth, initial installation of tapered insulation assembly in Area D.

C. Notification of Completion: Notify the manufacturer by means of manufacturer's printed Notification of Completion form of job completion in order to schedule a final inspection date.
D. Final Inspection/Post-Installation Meeting: Hold a meeting at the completion of the project, attended by all parties that were present at the pre-job conference. A punch list of items required for completion shall be compiled by the Contractor and the manufacturer's representative. Complete, sign, and mail the punch list form to the manufacturer's headquarters.

E. Issuance of the Warranty: Complete all post installation procedures and meet the manufacturer's requirements for issuance of the specified warranty.

3.5 PROTECTING AND CLEANING

A. Protect newly installed roofing system from damage and wear during construction period.

B. Repair, or remove and replace, as necessary, roofing system damaged as a result of the Contractor’s construction activities.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075000
075900 – LEAK DETECTION SYSTEM

PART 1 – GENERAL

1.1 SYSTEM DESCRIPTION

Installation of the Leak Sentry leak monitoring system from Sentinel Roof Technologies that uses sensors and conductive media to actively monitor the roof for leakages and alert in real time on any anomalies. System is “always on” - manual testing is not required to know when there is a breach.

A. Sections include

1. Electronic leak detection system with full time computer monitoring of roof envelope.
2. Monitoring grid establishing a single plane of testing at the base sheet level.

1.2 RELATED SECTIONS

A. Section 075000 Membrane Roofing.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate with other work having a direct bearing on work of this section including but not limited to, roofing.

B. Pre-installation Meeting: Two (2) weeks before starting work of roofing membrane, with 1 month notice.

1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.4 SUBMITTALS

A. Product Data: Provide manufacturer’s data sheets for product components and accessories.

B. Shop Drawings: Indicate plans, grid layout, dimensions, construction details, methods of anchorage, location and type of roof penetrations and roof drains.

C. Indicate location of access closures, and wiring path from monitoring grids to access closures.
D. Indicate location where grid cables will be terminated and area where monitoring electronics or future monitoring electronics will be installed.

E. Test Reports: Test reports from approved ELD company verifying the integrity of the roof at the time of system activation.

F. Installation Data: Manufacturer’s written installation requirements.

G. Test Protocol: Manufacturer’s written description of testing method and protocol.

1.5 CLOSEOUT SUBMITTALS

Operation and Maintenance Data: Indicate maintenance requirements for installed products and provide an OEM manual.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Must source Leak Sentry directly from Sentinel Roof Technologies.

B. Installer Qualifications: Company specializing in performing the work of this Section with minimum five (5) years documented experience and approved by the manufacturer.

C. Testing Agency Qualifications: Company specializing in performing the work of this Section with minimum ten (10) years documented experience and approved by the manufacturer.

D. Testing agency shall examine all surfaces to be tested. Testing agency shall notify roofing contractor of any and all conditions which, in his opinion, will affect satisfactory execution of the testing.

E. Installed sensors and cables must be protected from construction activities and traffic immediately (or as soon as possible).

1.7 DELIVERY, STORAGE, AND HANDLING

A. Protect electronic equipment and sensing and detection devices against potential damage from dust, moisture, and any other weathering elements.

B. Receive materials from manufacturer and store them in secure place and deliver them to the project site on the specified installation date(s).
1.8 ENVIRONMENTAL REQUIREMENTS

A. Do not install leak detection system to damp or frozen surfaces or during inclement weather.

B. Do not perform ASTM D-7877 testing unless environmental conditions are within parameters of testing criteria.

1.9 WARRANTY

A. Manufacturer’s Warranty: Provide a two (2) year manufacturer’s warranty on all components found inside the electrical panel to exclude coverage for failure to meet specified requirements.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Sentinel Roof Technologies – www.sentinelroofternologies.com
   leaksentry@sentinelroofternologies.com

2.2 EQUIPMENT

A. Power Supply: Voltage supply to induce electrical potential to the light layer of water on top of membrane relative to the roof deck below. 110V Power to the panel must be supplied by others.

B. Sensor Controller Board: Automated switching and measurement unit that facilitates the rapid connection to and testing of the monitoring grid installed in and on the roof assembly. Ingress into the panel location for the sensor wires must be provided by others.

C. Data Collection Microcomputer: Device to collect data from the sensor controller board, send signals to the monitoring grid, and send data out to the cloud monitoring system.

2.3 COMPONENTS

A. Moisture detection sensors: 2” or 1.5” Stainless Steel Sensor Pucks, 1/16” 316 Stainless Steel Cable, and any form of adhesion necessary shall be installed directly on top of the base sheet.

B. Conduction Media: A conductive metal wire mesh shall be installed by roofing contractor below the coverboard.
C. Access Closure: Metal box enclosure with space for cable terminations on terminal blocks and monitoring electronics and screw terminal barrier blocks for connecting grid cable and to provide field test access. Access closure to be watertight in exterior locations.

1. Provide NEMA1 enclosure(s) built to the job specs directly below roof D in existing conference rooms with access panels.
2. Coordinate exact installation location with Architect.

D. Electrical Cable and Accessories: Network data cable to be supplied by others as well as a static IP internet connection or other system providing a broadband internet solution. Manufacturer to provide all other electrical and data communication cables. When multiple panels are necessary, others must provide conduits connecting each panel to pass data cables through.

E. Monitoring Requirements:

1. Provide a real time monitoring system which is “always on” and sends alert via email and/or SMS in the event of a breach.
2. Provide quarterly reports on the condition and changes in the roof moisture readings.
3. Generate roof maps of moisture content based on weather condition, conductive media status, and seasonality.
4. Provide real time system status on all components and alert if any components go offline.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that membrane penetrations are of a non-conductive material or are electrically isolated or insulated by applying applications of additional layers of non-conductive waterproof material or other electrically insulating materials.

B. Verify that flashing materials insulate exposed or other electrical ground.

C. If low voltage Electronic Leak Detection is used for testing, verify availability of hose and water supply of sufficient length and at least 60 PSI to reach all points on surfaces to be surveyed by Electronic Leak Detection.

D. Coordinate with responsible entity to correct unsatisfactory conditions.
3.2 PREPARATION (ELD)

A. Membranes to be scanned to be broom clean and free of construction materials, equipment, and debris.

B. Materials, debris, and equipment must be removed from area to be tested.

C. Area to be tested must be dry.

D. Grounds must be located for creating an electronic charge into the structural deck.

3.3 INSTALLATION – LEAK SENTRY MONITORING GRID

A. Install monitoring grid to manufacturer’s written instructions and approved shop drawings.

B. Place a conductor with Type 316 stainless steel conductors in specified pattern on top of base sheet.

C. Sensor spacing shall be a 10 x 10 foot grid.

3.4 INSTALLATION – ACCESS CLOSURE

A. Install access closure to manufacturer’s written instructions

B. Install and terminate electrical cables from grid on approved screw terminal blocks or IDC connections blocks in access closure.

3.5 ELECTRONIC LEAK DETECTION

A. Perform initial membrane scan to establish baseline conditions to equipment manufacturer’s written requirements. (ELD ASTM D-7877-14)

B. Verify wiring sequence, electrical continuity and the absence or shorts or grounds on grid system.

C. Scan roof surfaces including inside and outside corners of parapets and equipment curbs. Use scanning equipment appropriate to the surfaces being scanned.

D. Mark breach locations on membrane with a marker approved by the membrane installer and/or membrane manufacturer.

E. Record location of membrane breach on sketch or drawings for communication with ELD installer and/or ELD inspector.
3.6 FIELD QUALITY CONTROL OF ELECTRONIC LEAK DETECTION

A. Roofing Contractor Representative shall be present during leak detection testing.

B. Roofing Contractor shall correct identified membrane defects or irregularities.

C. Field Reports: Tester shall identify date, time, and weather conditions when surveys are conducted.

1. Provide general description of scan/survey and process.
2. Describe typical membrane breaches located and areas not accessible by scanning equipment.
3. Document survey with photographs and plan view scale drawings with approximate locations of breaches noted.
4. Document the retesting of breaches identified and repaired.

END OF SECTION 075900
SECTION 076200 - SHEET METAL FLASHING AND ACCESSORIES

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. Formed roof sheet metal fabrications.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking.
2. Section 075000 “Membrane Roofing” for roof system.
3. Section 077100 “Roof Specialties” for manufactured coping and fascia assemblies.
4. Section 079200 “Joint Sealants” for joint sealants at roof.

1.3 COORDINATION

A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.

B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Participate in conference at Project site.

1. Review construction schedule. Verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Review special roof details, roof drainage, roof-penetration flashing, equipment curbs, and condition of other construction that affect sheet metal flashing and trim.
3. Review requirements for insurance and certificates if applicable.
4. Review sheet metal flashing observation and repair procedures after flashing installation.

1.5 ACTION SUBMITTALS

A. Shop Drawings: For sheet metal flashing and trim.
1. Include plans, elevations, sections, and attachment details.
2. Detail fabrication and installation layouts, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled work.
3. Include identification of material, thickness, weight, and finish for each item and location in Project.
4. Include details for forming, including profiles, shapes, seams, and dimensions.
5. Include details for joining, supporting, and securing, including layout and spacing of fasteners, cleats, clips, and other attachments. Include pattern of seams.
6. Include details of termination points and assemblies.
7. Include details of expansion joints and expansion-joint covers, including showing direction of expansion and contraction from fixed points.
8. Include details of roof-penetration flashing.
9. Include details of edge conditions.
10. Include details of special conditions.
11. Include details of connections to adjoining work.
12. Detail formed flashing and trim at scale of not less than 3 inches per 12 inches.

B. Samples for Initial Selection: For each type of sheet metal and accessory indicated with factory-applied finishes.

C. Samples for Verification: For each type of exposed finish.

1. Sheet Metal Flashing: 12 inches long by actual width of unit, including finished seam and in required profile. Include fasteners, cleats, clips, closures, and other attachments.
2. Trim, Metal Closures, Expansion Joints, Joint Intersections, and Miscellaneous Fabrications: 12 inches long and in required profile. Include fasteners and other exposed accessories.
3. Unit-Type Accessories and Miscellaneous Materials: Full-size Sample.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator.

B. Product Test Reports: For each product, for tests performed by a qualified testing agency.

C. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For sheet metal flashing and trim, and its accessories, to include in maintenance manuals.

1.8 QUALITY ASSURANCE

A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.
B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Construct a mock-up of the new cap flashing extension, comprising two full lengths of metal, and showing fastening to cap flashing receiver.
2. Construct a mock-up of the new reglet-mounted cap flashing, comprising two full lengths of metal, and showing joint treatment and lead wedges. Do not apply sealant at reglet as part of mock-up.
3. Construct a mock-up of the aluminum base infill, showing fastening to deck and wall. Do not install membrane flashing as part of mock-up.
4. Construct a mock-up of the aluminum base and cap flashing at the juncture between Area A and the adjoining building’s metal-sheathed wall, comprising two adjoining 4-foot-long (min.) sections, and showing joint treatments. Do not install membrane flashing as part of mock-up.
5. Construct mock-up of repair to fastener holes in adjoining building metal sheathing panel. Apply sealant behind patch. Do not apply sealant at patch edge as part of mock-up.
6. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
7. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.

B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

1.10 WARRANTY

A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.

1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
   a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
   b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
   c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

B. Special Project Warranty: Submit Installer's material and workmanship warranty, signed by Installer, covering Work of this Section, for the following warranty period:
1. Warranty Period: Five years from date of Substantial Completion

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

C. Sheet Metal Standard for Copper: Comply with CDA's "Copper in Architecture Handbook" and current edition of Revere Copper Products “Copper and Common Sense.” Conform to dimensions and profiles shown unless more stringent requirements are indicated.

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 SHEET METALS

A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

B. Plain Copper: ASTM B 370, cold-rolled copper sheet, H00 or CDA “H00 for Flashing”; 99 percent pure copper, 16 oz.

C. Tin-Coated Copper Sheet: Copper sheet, coated both sides with uniform coating of zinc and tin, nominal weight 16 ounces per square foot.

1. Nonpatinated Exposed Finish: Freedom Gray as produced by Revere Copper Products, Inc.

D. Aluminum Sheet: ASTM B 209, 3105-H14 alloy and temper; with smooth, flat surface.

1. Exposed Coil-Coated Finish:

   a. Three-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat.
Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Color: As selected by Architect from manufacturer's standard color range.

2.3 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal unless otherwise indicated.

B. Fasteners:

2. Rivets: 3/16 inch, stainless steel, blind rivet.

C. Flux and Solder: For Area A built-in cap flashings and sill flashings.

1. Flux: Tin-bearing, as manufactured by Johnson Manufacturing, under brand name Flux-N-Solder E127.
2. Solder: Lead-free, as manufactured by Johnson Manufacturing, under brand designation No. 497.

D. Gasket: Tubular neoprene or polyvinyl chloride, or block sponge neoprene.


F. Sealant: Polyether ASTM Class 25, as specified in Section 079200 “Joint Sealants.”

2.4 FABRICATION, GENERAL

A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.

1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
2. Obtain field measurements for accurate fit before shop fabrication.
3. Form sheet metal flashing and trim to fit substrates without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
4. Conceal fasteners and expansion provisions where possible.
B. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

C. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to tolerances specified in MCA's "Guide Specification for Residential Metal Roofing."

D. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
   1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with elastomeric sealant concealed within joints.
   2. Use lapped expansion joints only where indicated on Drawings.

E. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal to provide for proper installation of elastomeric sealant according to cited sheet metal standard.

F. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.

G. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard and by FM Global Property Loss Prevention Data Sheet 1-49 for application, but not less than thickness of metal being secured.

H. Seams: Fabricate nonmoving copper seams with flat-lock seams, or with 2-inch overlap and rivets spaced at 2- to 3-inches. Tin edges to be seamed, form seams, and solder.

I. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints where necessary for strength.

J. Do not use graphite pencils to mark metal surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.
   1. Verify compliance with requirements for installation tolerances of substrates.
   2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.

B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION

A. Remove existing cap flashing extensions and related cleats. Do not bend or deform existing cap flashing receivers.

B. Remove existing metal flashings at roof of Area A shed at adjoining building’s metal sheathing panels.

3.3 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
3. Install exposed sheet metal flashing and trim with limited oil canning, and free of buckling and tool marks.
4. Torch cutting of sheet metal flashing and trim is not permitted.
5. Do not use graphite pencils to mark metal surfaces.

B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.

C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.

1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.
2. Use lapped expansion joints where indicated on Drawings.

D. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.

E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

F. Seal joints as required for watertight construction.

1. Use sealant-filled joints unless otherwise indicated. Embed hooked flanges of joint members not less than 1 inch into sealant. Form joints to completely conceal sealant.
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. Do not install sealant-type joints at temperatures below 40 deg F.

2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets with solder to width of 1-1/2 inches; however, reduce pre-tinning where pre-tinned surface would show in completed Work.

1. Do not solder aluminum sheet.
2. Do not use torches without irons, or electric irons, for soldering.
3. Heat surfaces to receive solder by applying heated iron, and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.

3.4 ROOF FLASHING INSTALLATION

A. General: Install sheet metal flashing and trim to comply with performance requirements and cited sheet metal standard. Provide concealed fasteners where possible, and set units true to line, levels, and slopes. Install work with laps, joints, and seams that are permanently watertight and weather resistant.

B. Fabricate and install new cap flashing extensions. Use 16-oz tin-coated copper, unless indicated otherwise. Insert extensions in existing cap flashing receivers, and fasten with a rivet at each metal length end and no more than 24 inch apart between ends.

C. Cut new reglets where indicated, 1-1/2 inch deep. Form reglet-mounted cap flashing with 3/8 inch return. Use 16 oz tin-coated copper, unless otherwise indicated. Overlap flashing lengths 1 inch. Secure using lead wedges at each overlap and spaced no more than 24 inch apart between ends. Fill reglet with sealant, and extend sealant onto receiver’s diagonal leg.

D. Form .050 inch aluminum base at juncture of Area A and adjoining building’s metal sheathing panels to extend from deck surface to within 1/2 inch of sheathing panels. Form base to follow/conform to facets of sheathing panels. Form joints in base by overlapping pieces 1 inch, with bead of sealant within overlap, and fasten laps with rivets spaced at no more than 3 inch.

E. Form new built-in cap flashing at Area A East wall using 16-oz tin-coated copper. Overlap lengths 2 inch, install rivets in lap spaced at 3 inch, and sweat solder lap.

F. Form new sill flashing at base of door/window assemblies using 16-oz tin-coated copper. Overlap lengths 2 inch, install rivets in lap spaced at 3 inch, and sweat solder lap.

G. Form new cap flashing assembly at base of metal panel wall infill using 16-oz tin-coated copper. Overlap lengths 2 inch, install rivets in lap spaced at 3 inch, and sweat solder lap.
H. Form surface-mounted cap flashings in .040 inch aluminum sheet, color and finish to match that of manufactured fascia and coping assemblies. Extend cap flashing 1 – 2 past side edges of metal or membrane flashing.

I. Form 4 inch x 4 inch 16-oz plain copper squares with rounded corners to patch fastener holes in adjoining building’s metal sheathing panels. Apply full bed of sealant between panel and patch. Fasten patch to panel with rivet in each corner and a rivet between corners. Apply sealant at patch edge.

3.5 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

B. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerances specified in MCA's "Guide Specification for Residential Metal Roofing."

3.6 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder.

C. Clean off excess sealants.

D. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended by sheet metal flashing and trim manufacturer. Maintain sheet metal flashing and trim in clean condition during construction.

E. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 076200
SECTION 077100 - ROOF SPECIALTIES

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. Remove existing metal copings, concrete copings, and through-wall metal flashings at parapets as indicated on the Drawings, and install new manufactured coping and fascia assemblies.
   a. Coping and fascia assemblies shall be included in the Roofing Manufacturer's Warranty.
   b. Existing metal coping and expansion joint assemblies at the West parapet shall remain.

2. Re-use existing cast iron drain bodies in their current positions. Install fixed (non-adjustable) drain extensions manufactured by the manufacturer of the existing drains, for Conventional/Area D roofing.
3. Install aluminum drain grating in lieu of a full size concrete paver above each drain for the IRMA roofing.
4. Install metal panel assembly at the West parapet (see Roof Plan) configured to integrate with existing parapet coping/expansion joint metalwork.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking.
2. Section 075000 “Membrane Roofing” for warranty requirements.
3. Section 076200 "Sheet Metal Flashing and Trim" for custom- and site-fabricated sheet metal flashing and trim.
4. Section 079200 "Joint Sealants" for field-applied sealants between roof specialties and adjacent materials.

C. Preinstallation Conference: Participate in conference at Project site.

1. Meet with Owner, Architect, Owner's insurer if applicable, roofing-system testing and inspecting agency representative, roofing Installer’s Supervisor and Foreman, roofing-system manufacturer's representative, roof specialties Installer, and installers whose work interfaces with or affects roof specialties, including installers of roofing materials and accessories.
2. Examine substrate conditions for compliance with requirements, including flatness and attachment to structural members.
3. Review special roof details, roof drainage, and condition of other construction that will affect roof specialties.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For roof specialties.
   1. Include plans, elevations, expansion-joint locations, keyed details, and attachments to other work. Distinguish between plant- and field-assembled work.
   2. Include details for expansion and contraction; locations of expansion joints, including direction of expansion and contraction.
   3. Indicate profile and pattern of seams and layout of fasteners, cleats, clips, and other attachments.
   4. Detail termination points and assemblies, including fixed points.
   5. Include details of special conditions.

C. Samples: For each type of roof specialty and for each color and texture specified.

D. Samples for Initial Selection: For each type of roof specialty indicated with factory-applied color finishes.

E. Samples for Verification:
   1. Include Samples of each type of roof specialty to verify finish and color selection, in manufacturer's standard sizes.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For manufacturer.

B. Product Certificates: For each type of roof specialty.

C. Sample Warranty: For manufacturer's special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing specialties to include in maintenance manuals.
1.6 QUALITY ASSURANCE

A. Source Limitations: Obtain roof specialties approved by manufacturer providing roofing-system warranty specified in Section 075000 “Membrane Roofing.”

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and set quality standards for fabrication and installation.

1. Build mockups for the following:
   a. Drain extender.
   b. Metal panel assembly.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Do not store roof specialties in contact with other materials that might cause staining, denting, or other surface damage. Store roof specialties away from uncured concrete and masonry.

B. Protect strippable protective covering on roof specialties from exposure to sunlight and high humidity, except to extent necessary for the period of roof-specialty installation.

1.8 FIELD CONDITIONS

A. Field Measurements: Verify profiles and tolerances of roof-specialty substrates by field measurements before fabrication, and indicate measurements on Shop Drawings.

B. Coordination: Coordinate roof specialties with flashing, trim, and other roofing related construction to provide a leakproof, secure, and noncorrosive installation.

1.9 WARRANTY

A. Roofing-System Warranty: Coping and fascia assemblies shall be included in warranty provisions in Section 075000 “Membrane 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 D 2244.
   b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Roof specialties shall withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

B. SPRI Wind Design Standard: Manufacture and install roof-edge specialties tested according to SPRI ES-1 and capable of resisting the following design pressures:

1. Design Pressure: 120 psf minimum.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of 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 materials 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 ROOF SPECIALTIES

A. Manufactured Coping Assembly: .050 inch aluminum coping cover with anchor clips and splice plates, with end wall and end cap flashings and miters as needed, in finish and color as selected by Architect, manufactured by Siplast under trade name Paraguard M Coping Tapered Version.

1. Sizes vary – field measure each parapet, and see Drawings.
2. Order/use 300-series stainless steel screws for attachment to wood blocking.

B. Manufactured Fascia Assembly: Extruded aluminum anchor bar, and .040 inch aluminum fascia cover in factory Kynar finish in standard color as selected by Architect, with end wall and end cap flashings as needed, manufactured by Siplast under trade name Paraguard Extruded Edge AT Fascia Standard Version.

1. Order/use 300-series stainless steel screws for attachment to wood blocking.

C. Drain Extension & Gasket Assembly: Steel or cast iron fixed height extension, with gasket, as manufactured by manufacturer of existing drains.

1. Furnish with bolts and related components.
D. Drain Grating: Aluminum alloy 6063-T6, Type 19-S-4 spacing, 1-1/2 inch x 3/16 inch rectangular bars, swage-locked, standard trim banded, serrated surface, 24 inch x 24 inch panels.

E. Manufactured Wall Panel: .032 inch aluminum, interlocking V-groove profile, concealed fastener design, factory-finished Kynar 500, standard color as selected by Architect, as manufactured by Fabral under brand name Posi-Lock.

F. Subgirt: Nominal 3/4 inch deep 20 gauge galvanized steel hat sections.

G. Sealant: ASTM C920, Type S, Grade NS, Class 25, as Section 079200 “Joint Sealants.”

H. Cover Board: Gypsum based rigid board, 3/8 inch thick, UL Class A, as manufactured by United States Gypsum Co., under trade name Securock.

I. Fasteners:
   2. Screws (panels to subgirts): Self-tapping #8 x 3/4 inch, 300-series or 18/8 stainless steel.


2.3 MATERIALS

A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 coating designation.

B. Aluminum Sheet: ASTM B 209, alloy as standard with manufacturer for finish required, with temper to suit forming operations and performance required.

C. Aluminum Extrusions: ASTM B 221, alloy and temper recommended by manufacturer for type of use and finish indicated, finished as follows:

2.4 FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

D. Coil-Coated Aluminum Sheet Finishes:
1. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
   a. Three-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
   b. Concealed Surface Finish: Apply pretreatment and manufacturer's standard acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

PART 3 - EXECUTION

3.1 EXAMINATION
   A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.
   B. Examine walls, roof edges, and parapets for suitable conditions for roof specialties.
   C. Verify that substrate is sound, dry, smooth, clean, sloped for drainage where applicable, and securely anchored.
   D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION
   A. Remove existing metal copings and related wood components, fasteners, and membranes, except metal coping/expansion joint assemblies shall remain at West parapet.
   B. Remove existing concrete copings and related through-wall flashings.
   C. Maintain parapets watertight throughout project.

3.3 UNDERLAYMENT INSTALLATION
   A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches. Roll laps with roller. Cover underlayment within 60 days.

3.4 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, protective coatings, separators, underlayments, sealants, and other miscellaneous items as required to complete roof-specialty systems.

1. Install wood blocking, shim, cover board, waterproof membrane, and membrane flashings in accordance with the drawings and specification requirements herein.
2. Install roof specialties level, plumb, true to line and elevation; with limited oil-canning and without warping, jogs in alignment, buckling, or tool marks.
3. Provide uniform, neat seams with minimum exposure of solder and sealant.
4. Install roof specialties to fit substrates and to result in weathertight performance. Verify shapes and dimensions of surfaces to be covered before manufacture.
5. Torch cutting of roof specialties is not permitted.
6. Do not use graphite pencils to mark metal surfaces.

B. Install surface-mounted cap flashing where coping ends/turns up at walls and higher parapets. See Section 076200.

C. Install surface-mounted cap flashing where fascia assembly ends/turns up at walls and higher parapets. See Section 076200. Extend membrane flashing at top of parapet 4” up onto wall/higher parapet.

D. 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.


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.

F. Fastener Sizes: Use fasteners of sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.

G. Seal concealed joints as required by roofing-specialty manufacturer.

H. Seal joints as required for weathertight construction. Place sealant to be completely concealed in joint. Do not install sealants at temperatures below 40 deg F.

3.5 ROOF-EDGE SPECIALTIES INSTALLATION

A. Install cleats, cants, and other anchoring and attachment accessories and devices with concealed fasteners.

B. Anchor roof edgings with manufacturer's required devices, fasteners, and fastener spacing to meet performance requirements.
3.6 GRATING AT DRAINS INSTALLATION

A. Install 2-foot x 2-foot grating instead of full paver at paver location closest to drain center. Install pedestal at each corner of drain grating and shims needed for grating surface to be even with adjoining concrete paver surfaces.

1. Provide high profile pedestals and shims in accordance with Section 075000 “Membrane Roofing.”

3.7 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Remove temporary protective coverings and strippable films as roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain roof specialties in a clean condition during construction.

C. Replace roof specialties that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION 077100
SECTION 079200 - 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. Polyether joint sealants.

1.3 PREINSTALLATION MEETINGS
   A. Preinstallation Conference: Participate in conference at Project site.

1.4 ACTION SUBMITTALS
   A. Product Data: For each joint-sealant product.
   B. 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.

1.5 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For qualified testing agency.
   B. Product Test Reports: For each kind of joint sealant, for tests performed by manufacturer and witnessed by a qualified testing agency.
C. Preconstruction Laboratory Test Schedule: Include the following information for each joint
sealant and substrate material to be tested:

1. Joint-sealant location and designation.
2. Manufacturer and product name.
3. Type of substrate material.
5. Number of samples required.

D. Preconstruction Laboratory Test Reports: From sealant manufacturer, indicating the following:

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 are needed for adhesion.

E. Preconstruction Field-Adhesion-Test Reports: Indicate which sealants and joint preparation
methods resulted in optimum adhesion to joint substrates based on testing specified in "Preconstruction Testing" Article.

F. Field-Adhesion-Test Reports: For each sealant application tested.

G. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by
manufacturer.

B. Product Testing: Test joint sealants using a qualified testing agency.

1. Testing Agency Qualifications: Qualified according to ASTM C 1021 to conduct the
testing indicated.

C. Mockups: Install sealant in mockups of assemblies specified in other Sections that are indicated
to receive joint sealants specified in this Section. Use materials and installation methods
specified in this Section.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Laboratory Testing: Submit to joint-sealant manufacturers, for testing indicated
below, samples of materials that will contact or affect joint sealants.

1. Adhesion Testing: Use ASTM C 794 to determine whether priming and other specific
joint preparation techniques are required to obtain rapid, optimum adhesion of joint
sealants to joint substrates.
2. Compatibility Testing: Use ASTM C 1087 to determine sealant compatibility when in
contact with glazing and gasket materials.
3. **Stain Testing:** Use ASTM C 1248 to determine stain potential of sealant when in contact with substrates.

4. Submit manufacturer's recommended number of pieces of each type of material, including joint substrates, joint-sealant backings, and miscellaneous materials.

5. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.

6. For materials failing tests, obtain joint-sealant manufacturer's written instructions for corrective measures, including use of specially formulated primers.

7. Testing will not be required if joint-sealant manufacturers submit data that are based on previous testing, not older than 24 months, of sealant products for adhesion to, staining of, and compatibility with joint substrates and other materials matching those submitted.

B. **Preconstruction Field-Adhesion Testing:** Before installing sealants, field test their adhesion to Project joint substrates as follows:

1. Locate test joints where indicated on Project or, if not indicated, as directed by Architect.
2. Conduct field tests for each kind of sealant and joint substrate.
3. Notify Architect seven days in advance of dates and times when test joints will be erected.
4. Arrange for tests to take place with joint-sealant manufacturer's technical representative present.
   
   
   1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

5. Report whether sealant failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.

6. **Evaluation of Preconstruction Field-Adhesion-Test Results:** Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing.

1.8 **FIELD 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 joint-sealant 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.
1.9 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.

1. Warranty Period: Two years from date of Substantial Completion.

B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.

1. Warranty Period: Five years from date of Substantial Completion.

C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:

1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
2. Disintegration of joint substrates from causes exceeding design specifications.
3. Mechanical damage caused by individuals, tools, or other outside agents.
4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS, 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. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.2 POLYETHER JOINT SEALANTS

A. Polyether, S, NS, 50, NT: Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, polyether joint sealant; ASTM C920, Type S, Grade NS, Class 50, Use NT.

   1. Basis-of-Design Product: Subject to compliance with requirements, provide ChemLink DuraLink Elastomeric Joint Sealant.

B. Polyether, S, NS, 25, NT: Single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, polyether joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Use NT.
1. Basis-of-Design Product: Subject to compliance with requirements, provide ChemLink NovaLink Elastomeric Joint Sealant.

2.3 JOINT-SEALANT BACKING

A. Sealant Backing Material, General: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. 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.

2.4 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion 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 compatible 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 performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
1. 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. Porous joint substrates include the following:
   a. Concrete.
   b. Masonry.

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. Nonporous joint substrates include the following:
   a. Metal.

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 primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact 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 capability.
   1. Do not leave gaps between ends of sealant backings.
   2. Do not stretch, twist, puncture, or tear sealant backings.
   3. Remove absorbent sealant backings that have become wet before sealant application, and replace them with dry materials.

D. Install bond-breaker tape 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:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

F. 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.
4. Provide flush joint profile at locations indicated on Drawings according to Figure 8B in ASTM C 1193.
5. Provide recessed joint configuration of recess depth and at locations indicated on Drawings according to Figure 8C in ASTM C 1193.
   a. Use masking tape to protect surfaces adjacent to recessed tooled joints.

3.4 FIELD QUALITY CONTROL

A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:

1. Extent of Testing: Test completed and cured sealant joints as follows:
   a. Perform 10 tests for the first 1000 feet of joint length for each kind of sealant and joint substrate.
   b. Perform one test for each 1000 feet of joint length thereafter or one test per each floor per elevation.

   a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

3. Inspect tested joints and report on the following:
   a. Whether sealants filled joint cavities and are free of voids.
   b. Whether sealant dimensions and configurations comply with specified requirements.
c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.

4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.

5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

B. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.5 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 sealants and of products in which joints occur.

3.6 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations 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, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.7 JOINT-SEALANT SCHEDULE

A. Joint-Sealant Application: Exterior joints in vertical nontraffic surfaces.

1. Joint Locations:
   a. Perimeter joints at frames of doors and storefront systems.
   b. Other joints as indicated on Drawings.

2. Joint Sealant: Polyether, S, NS, 50, NT.

3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

1. Joint Locations
   a. Where indicated in Section 076200 “Sheet Metal Flashing and Accessories”
   b. Other joints as indicated on drawings.

2. Joint Sealant: Polyether, S, NS, 25, NT.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION 079200
SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Aluminum-framed entrance and storefront systems.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data:
   1. Aluminum-framed entrance and storefront systems.

B. Product Data Submittals: For each product.
   1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Operating characteristics, and furnished accessories.

C. Shop Drawings:
   1. Plans, elevations, sections, full-size details, and attachments to other work.
   2. Details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
   3. Full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrance and storefront systems, showing the following:
      a. Joinery, including concealed welds.
      b. Anchorage.
      c. Expansion provisions.
      d. Glazing.
      e. Flashing and drainage.
   4. Connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
   5. Signed and sealed by the qualified professional engineer responsible for their preparation.

D. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.
E. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

F. Delegated Design Submittals: For aluminum-framed entrances and storefront systems, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

A. Energy Performance Certificates: For aluminum-framed entrance and storefront systems, accessories, and components, from manufacturer.

1. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront system.

B. Product Test Reports: For aluminum-framed entrance and storefront systems, for tests performed by a qualified testing agency.

C. Qualification Statements:

1. For Installer and egress door inspector.

D. Delegated Design Engineer Qualifications: For aluminum-framed entrance and storefront systems.

E. Sample Warranties: For aluminum-framed entrance and storefront systems.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For aluminum-framed entrance and storefront systems.

1.6 QUALITY ASSURANCE

A. Installer Qualifications:

1. Entity that employs installers and supervisors who are trained and approved by manufacturer.

B. Delegated Design Engineer Qualifications: A professional engineer who is legally qualified to practice in state where Project is located and who is experienced in providing engineering services of the type indicated.

C. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

1.7 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrance and storefront systems that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
   a. Structural failures.
   b. Faulty operation of doors.
   c. Deterioration of metals and other materials beyond normal weathering and use.

2. Warranty Period: Two years from date of Substantial Completion.

B. Special Finish Warranty, Factory-Applied Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.

1. Deterioration includes, but is not limited to, the following:
   a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
   b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
   c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain all components of aluminum-framed entrance and storefront system, including framing and accessories, from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design aluminum-framed entrance and storefront systems.

B. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrance and storefront systems representing those indicated for
this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.

1. Aluminum-framed entrance and storefront systems to withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
2. Failure also includes the following:
   a. Thermal stresses transferring to building structure.
   b. Glass breakage.
   c. Noise or vibration created by wind and thermal and structural movements.
   d. Loosening or weakening of fasteners, attachments, and other components.
   e. Failure of operating units.

C. Structural Loads:
   1. Wind Loads: As indicated on Drawings.
   2. Other Design Loads: As indicated on Drawings.

D. Deflection of Framing Members Supporting Glass: At design wind load, as follows:
   1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans of up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches.

E. Structural: Test in accordance with ASTM E330/E330M as follows:
   1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
   2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
   3. Test Durations: As required by design wind velocity, but not less than 10 seconds.

F. Water Penetration under Static Pressure: Test in accordance with ASTM E331 as follows:
   1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested in accordance with a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 8 lbf/sq. ft.

G. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:
   1. Thermal Transmittance (U-factor):
      a. Fixed Glazing and Framing Areas: U-factor for the system of not more than 0.30 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
      b. Entrance Doors: U-factor of not more than 0.77 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
2. Solar Heat-Gain Coefficient (SHGC):
   a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.36 as determined in accordance with NFRC 200.
   b. Entrance Doors: SHGC of not more than 0.36 as determined in accordance with NFRC 200.

3. Air Leakage:
   a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than 0.06 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft. when tested in accordance with ASTM E283.
   b. Entrance Doors: Air leakage of not more than 1.0 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..

4. Condensation Resistance Factor (CRF):
   a. Fixed Glazing and Framing Areas: CRF for the system of not less than 70 (frame) as determined in accordance with AAMA 1503.
   b. Entrance Doors: CRF of not less than 57 (frame) as determined in accordance with AAMA 1503.

H. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.3 ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Arcadia Inc.
   2. EFCO Corporation.
   4. OldCastle BuildingEnvelope (OBE).
   5. Tubelite Inc.
   6. YKK AP America Inc.

B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
   2. Glazing System: Retained mechanically with gaskets on four sides.
   5. Fabrication Method: Field-fabricated stick system.
   6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
7. Steel Reinforcement: As required by manufacturer.

C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.

D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

E. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.
   1. Door Construction: 2- to 2-1/4-inch overall thickness, with minimum 0.125-inch- thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
   2. Door Design: As indicated.
      a. Provide nonremovable glazing stops on outside of door.
   4. Finish: Match adjacent storefront framing finish.

2.4 ENTRANCE DOOR HARDWARE

A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 087100 "Door Hardware."

B. General: Provide entrance door hardware to comply with requirements in this Section.
   1. Opening-Force Requirements:
      a. Egress Doors: Not more than 15 lbf to release the latch and not more than 30 lbf to set the door in motion and not more than 15 lbf to open the door to its minimum required width.

C. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.

D. Weather Stripping: Manufacturer's standard replaceable components.
   1. Compression Type: Made of ASTM D2000 molded neoprene or ASTM D2287 molded PVC.
   2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.

E. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.
F. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch.

2.5 GLAZING

A. Glazing: Comply with Section 088000 "Glazing."

B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.

2.6 MATERIALS

A. Sheet and Plate: ASTM B209.

B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221.

C. Structural Profiles: ASTM B308/B308M.

D. Steel Reinforcement:

1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.

E. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods in accordance with recommendations in SSPC-SP COM, and prepare surfaces in accordance with applicable SSPC standard.

2.7 ACCESSORIES

A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.

1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
2. Reinforce members as required to receive fastener threads.
3. Use exposed fasteners with countersunk Phillips screw heads, fabricated from 300 series stainless steel.

B. Anchors: Three-way adjustable anchors with minimum adjustment of 1 inch that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.

C. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.
D. Bituminous Paint: Cold-applied asphalt-mastic paint containing no asbestos, formulated for 30-mil thickness per coat.

2.8 FABRICATION

A. Form or extrude aluminum shapes before finishing.

B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

C. Fabricate components that, when assembled, have the following characteristics:

1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fitted joints with ends coped or mitered.
3. Physical and thermal isolation of glazing from framing members.
4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
5. Provisions for field replacement of glazing from interior.
6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

E. Storefront Framing: Fabricate components for assembly using shear-block system.

F. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.

1. At interior and exterior doors, provide compression weather stripping at fixed stops.

G. Entrance Doors: Reinforce doors as required for installing entrance door hardware.

1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
2. At exterior doors, provide weather sweeps applied to door bottoms.

H. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.

I. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

2.9 ALUMINUM FINISHES

A. High-Performance Organic Finish, Two-Coat PVDF: Fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in color coat.
1. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
2. Color and Gloss: Matte Black. As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

A. Comply with manufacturer's written instructions.

B. Do not install damaged components.

C. Fit joints to produce hairline joints free of burrs and distortion.

D. Rigidly secure nonmovement joints.

E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.

F. Seal perimeter and other joints watertight unless otherwise indicated.

G. Metal Protection:
   1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
   2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

H. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.

I. Install joint filler behind sealant as recommended by sealant manufacturer.

J. Install components plumb and true in alignment with established lines and grades.

K. Install entrance doors to produce smooth operation and tight fit at contact points.

1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

L. Install glazing as specified in Section 088000 "Glazing."

3.3 ERECTION TOLERANCES

A. Install aluminum-framed entrance and storefront systems to comply with the following maximum tolerances:

1. Plumb: 1/8 inch in 10 feet; 1/4 inch in 40 feet.
2. Level: 1/8 inch in 20 feet; 1/4 inch in 40 feet.
3. Alignment:
   a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch wide, limit offset from true alignment to 1/16 inch.
   b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch wide, limit offset from true alignment to 1/8 inch.
   c. Where surfaces are separated by reveal or protruding element of 1 inch wide or more, limit offset from true alignment to 1/4 inch.

4. Location: Limit variation from plane to 1/8 inch in 12 feet; 1/2 inch over total length.

3.4 FIELD QUALITY CONTROL

A. Inspection Agency: Engage a qualified inspector to perform inspections.

B. Inspections:

1. Egress Door Inspections: Inspect each aluminum-framed entrance door equipped with panic hardware, located in an exit enclosure, electrically controlled, and equipped with special locking arrangements, in accordance with NFPA 101, Ch. 7 "Means of Egress," Section "Means of Egress Components," Article "Inspection of Door Openings."

C. Aluminum-framed entrance and storefront systems will be considered defective if they do not pass tests and inspections.

D. Prepare test and inspection reports.

END OF SECTION 084113
SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:
   1. Swinging doors.

B. Door hardware includes, but is not necessarily limited to, the following:
   1. Mechanical door hardware.

C. Related Sections:
   1. Section 084113 “Aluminum-Framed Entrances and Storefronts”.
   2. Section 088000 “Glazing”

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
   6. NFPA 105 - Installation of Smoke Door Assemblies.
   7. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
   8. New York City 2022 Building Codes and Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
   1. ANSI/BHMA Certified Product Standards - A156 Series.
   2. ANSI/UL 294 - Access Control System Units.
   3. ANSI/UL 437- Key Locks.
1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:
   a. Type, style, function, size, label, hand, and finish of each door hardware item.
   b. Manufacturer of each item.
   c. Fastenings and other pertinent information.
   d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
   e. Explanation of abbreviations, symbols, and codes contained in schedule.
   f. Mounting locations for door hardware.
   g. Door and frame sizes and materials.
   h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
   a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
   b. Complete (risers, point-to-point) access control system block wiring diagrams.
   c. Wiring instructions for each electronic component scheduled herein.
2. **Electrical Coordination:** Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. **Keying Schedule:** After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. **Informational Submittals:**

1. **Product Test Reports:** Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. **Operating and Maintenance Manuals:** Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 **QUALITY ASSURANCE**

A. **Manufacturers Qualifications:** Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. **Certified Products:** Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. **Installer Qualifications:** A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. **Door Hardware Supplier Qualifications:** Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

F. **Keying Conference:** Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

G. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

H. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Please note that ASSA ABLOY is transitioning the Yale Commercial brand to ASSA ABLOY ACCENTRA. This affects only the brand name; the products and product numbers will remain unchanged. The brand transition is expected to be complete in or about May of 2024, and products shipping after that time will be branded ASSA ABLOY ACCENTRA.

D. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01,
Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 BUTT HINGES

A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:
   a. Two Hinges: For doors with heights up to 60 inches.
   b. Three Hinges: For doors with heights 61 to 90 inches.
   c. Four Hinges: For doors with heights 91 to 120 inches.
   d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
   a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
   b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
   a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
   b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:
   a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

2.3 CONTINUOUS HINGES

A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:
   a. Pemko (PE).
2.4 DOOR OPERATING TRIM

A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
2. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
3. Manufacturers:
   a. Rockwood (RO).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Three (3).
2. Master Keys (per Master Key Level/Group): Five (5).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 CYLINDRICAL LOCKS AND LATCHING DEVICES

2.7 AUXILIARY LOCKS

A. Mortise Deadlocks, Small Case: ANSI/BHMA A156.36, Grade 1, small case mortise type deadlocks constructed of heavy gauge wrought corrosion resistant steel. Steel or stainless steel bolts with a 1” throw and hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other specified locksets.

1. Manufacturers:
   a. Sargent Manufacturing (SA) - 4870 Series.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.9 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use.
Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Unitrol): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted closers with door stop mechanism to absorb dead stop shock on arm and top hinge. Hold-open arms to have a spring loaded mechanism in addition to shock absorber assembly. Arms to be provided with rigid steel main arm and secondary arm lengths proportional to the door width.

1. Manufacturers:
   a. Norton Rixson (NO) - Unitrol Series.

2.10 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

2.11 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
   1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:
   1. Pemko (PE).

2.12 FABRICATION
A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.13 FINISHES
A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.
3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.


3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
3.5 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.7 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer’s Abbreviations:
   1. PE - Pemko
   2. RO - Rockwood
   3. SA - SARGENT
   4. NO - Norton
Hardware Sets

Set: 1.0

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SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY
   A. Section Includes:
      1. Insulating glass.

1.2 DEFINITIONS
   A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
   B. Glass Thicknesses: Indicated by thickness designations in millimeters in accordance with ASTM C1036.
   D. Interspace: Space between lites of an insulating-glass unit.

1.3 COORDINATION
   A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances to achieve proper safety margins for glazing retention under each design load case, load case combination, and service condition.

1.4 ACTION SUBMITTALS
   A. Product Data: For each type of product.
   B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches square.
   C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
   D. Delegated Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by qualified professional engineer responsible for their preparation.
1.5 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For Installer and manufacturers of fabricated glass units.
   B. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE
   A. Fabricated-Glass Manufacturer Qualifications: A qualified manufacturer of fabricated glass units who is approved by primary glass manufacturer.
   B. Installer Qualifications: A qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors.

1.7 DELIVERY, STORAGE, AND HANDLING
   A. Protect glazing materials in accordance with manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
   B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.8 FIELD CONDITIONS
   A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.

1.9 WARRANTY
   A. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is obstruction of vision by dust, moisture, or film on interior surfaces of glass.
      1. Warranty Period: 10 years from date of Substantial Completion.
PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Glass: Obtain glass from single source from single manufacturer.

B. Source Limitations for Glazing Accessories: For each product and installation method, obtain from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design glazing.

C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined in accordance with the IBC and ASTM E1300:

   1. Design Wind Pressures: As indicated on Drawings.
   2. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch, whichever is less.

D. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

E. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:

   1. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
   2. U-Factors: Center-of-glazing values, in accordance with NFRC 100 and based on most current non-beta version of LBL's WINDOW computer program, expressed as Btu/sq. ft. x h x deg F.
   3. SHGC and Visible Transmittance: Center-of-glazing values, in accordance with NFRC 200 and based on most current non-beta version of LBL's WINDOW computer program.
2.3 GLASS PRODUCTS, GENERAL

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

1. NGA Publications: "Glazing Manual."

B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.

C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the IGCC.

D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.

1. Minimum Glass Thickness for Exterior Lites: 6 mm.

2.4 INSULATING GLASS

A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified in accordance with ASTM E2190.

1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
2. Perimeter Spacer: Manufacturer's standard warm edge spacer material and construction.
3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.5 MISCELLANEOUS GLAZING MATERIALS

A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Setting Blocks: Type recommended in writing by sealant or glass manufacturer.

C. Edge Blocks: Type recommended in writing by sealant or glass manufacturer.

2.6 FABRICATION OF GLAZING UNITS

A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product
manufacturer and referenced glazing publications, to comply with system performance requirements.

1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
   
   a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:

   1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
   2. Presence and functioning of weep systems.
   3. Minimum required face and edge clearances.
   4. Effective sealing between joints of glass-framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.

C. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
D. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
E. Provide spacers for glass lites where length plus width is larger than 50 inches.
F. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
G. Set glass lites with proper orientation so that coatings face exterior or interior as specified.

3.4 CLEANING AND PROTECTION
A. Immediately after installation, remove nonpermanent labels and clean surfaces.
B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
   1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
C. Remove and replace glass that is damaged during construction period.
D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.5 INSULATING GLASS SCHEDULE
A. Low-E-Coated, Clear Insulating Glass Type:
   1. Overall Unit Thickness: 1 inch.
   2. Minimum Thickness of Each Glass Lite: 6 mm.
   4. Interspace Content: Argon.
   5. Indoor Lite: Heat-strengthened float glass.
   7. Winter Nighttime U-Factor: As required to achieve performance requirements specified in Section 084113 “Aluminum-Framed Entrances and Storefronts.”
   8. SGHC: As required to achieve performance requirements specified in Section 084113 “Aluminum-Framed Entrances and Storefronts.”
B. Low-E-Coated, Fully Tempered Clear Insulating Glass Type:
   1. Overall Unit Thickness: 1 inch.
   2. Minimum Thickness of Each Glass Lite: 6 mm.
   3. Outdoor Lite: Fully tempered float glass.
   4. Interspace Content: Argon.
5. Indoor Lite: Fully tempered float glass.
7. Winter Nighttime U-Factor: As required to achieve performance requirements specified in Section 084113 “Aluminum-Framed Entrances and Storefronts.”
8. SGHC: As required to achieve performance requirements specified in Section 084113 “Aluminum-Framed Entrances and Storefronts.”
9. Safety glazing required.

END OF SECTION 088000
SECTION 092216 - NON-STRUCTURAL METAL FRAMING

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. Non-load-bearing steel framing systems for exterior partitions.

1.3 ACTION SUBMITTALS
   A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS
   A. Product Certificates: For each type of code-compliance certification for studs and tracks.

1.5 QUALITY ASSURANCE
   A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association, the Steel Framing Industry Association, or the Steel Stud Manufacturers Association.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS
   A. Horizontal Deflection: For wall assemblies, limited to 1/240 of the wall height based on horizontal loading of 5 lbf/sq. ft..

2.2 FRAMING SYSTEMS
   A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
1. Steel Sheet Components: Comply with ASTM C645 requirements for metal unless otherwise indicated.

B. Studs and Tracks: ASTM C645.
   1. Steel Studs and Tracks:
      a. Minimum Base-Metal Thickness: As required by performance requirements for horizontal deflection.
      b. Depth: As indicated on Drawings.

2.3 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards.
   1. Fasteners for Steel Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

B. Isolation Strip at Exterior Walls: Provide one of the following:
   2. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL
A. Installation Standard: ASTM C754.
   1. Gypsum Board Assemblies: Also comply with requirements in ASTM C840 that apply to framing installation.

B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.

D. Install bracing at terminations in assemblies.

E. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.3 INSTALLING FRAMED ASSEMBLIES

A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
   1. Single-Layer Application: 16 inches o.c. unless otherwise indicated.

B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.

C. Install studs so flanges within framing system point in same direction.

D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
   1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
   2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
      a. Install two studs at each jamb unless otherwise indicated.
      b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance from jamb stud to allow for installation of control joint in finished assembly.
      c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
   3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.

E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

END OF SECTION 092216
SECTIONS 092900 - GYPSUM BOARD

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. Interior gypsum board.
   2. Exterior gypsum board.

B. Related Requirements:
   1. Section 092216 "Non-Structural Metal Framing" for non-structural steel framing that support gypsum board panels.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For the following products:
   1. Trim Accessories: Full-size Sample in 12-inch-long length for each trim accessory indicated.

1.4 DELIVERY, STORAGE AND HANDLING

A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.5 FIELD CONDITIONS

A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.

B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
C. Do not install panels that are wet, moisture damaged, and mold damaged.

1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 GYPSUM BOARD, GENERAL

A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.2 GYPSUM BOARD

A. Interior Gypsum Wallboard: ASTM C 1396/C 1396M.

1. Thickness: 5/8 inch.
2. Long Edges: Tapered.

B. Exterior Gypsum Sheathing: ASTM C 1396/C 1396M.

1. Thickness: 5/8 inch.
2. Long Edges: Tapered.

2.3 TRIM ACCESSORIES


1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.

2.4 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475/C 475M.

B. Joint Tape:


C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.

1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
a. Use setting-type compound for installing paper-faced metal trim accessories.

3. Fill Coat: For second coat, use setting-type, sandable topping compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
5. Skim Coat: For final coat of Level 4 finish, use drying-type, all-purpose compound.

2.5 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.

B. Stainless Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
   1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
   2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and substrates including welded hollow-metal frames and support framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLYING AND FINISHING PANELS, GENERAL

A. Comply with ASTM C 840.

B. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.

C. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.

D. Form control and expansion joints with space between edges of adjoining gypsum panels.

E. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.

2. Fit gypsum panels around ducts, pipes, and conduits.

3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- wide joints to install sealant.

F. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.3 APPLYING GYPSUM BOARD

A. Single-Layer Application:

1. On partitions/walls, apply gypsum panels vertically (parallel to framing) unless otherwise indicated, and minimize end joints.
   a. Stagger abutting end joints not less than one framing member in alternate courses of panels.

2. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

3.4 INSTALLING TRIM ACCESSORIES

A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.

B. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.

3.5 FINISHING GYPSUM BOARD

A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.

B. Prefill open joints and damaged surface areas.

C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.

D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:

1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
2. Level 2: Where indicated on Drawings.
3. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
4. Level 5: Not included

3.6 PROTECTION

A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.

B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.

C. Remove and replace panels that are wet, moisture damaged, and mold damaged.

   1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.

   2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 092900
SECTION 096513 - RESILIENT BASE AND ACCESSORIES

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. Thermoset-rubber straight profile base.

1.3 ACTION SUBMITTALS
   A. Product Data: For each type of product.
   B. Samples: For each exposed product and for each color and texture specified, not less than 12 inches long.

1.4 DELIVERY, STORAGE, AND HANDLING
   A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.5 FIELD CONDITIONS
   A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following periods:
      1. 48 hours before installation.
      2. During installation.
      3. 48 hours after installation.
   B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
   C. Install resilient products after other finishing operations, including painting, have been completed.
PART 2 - PRODUCTS

2.1 THERMOSET-RUBBER BASE

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Flexco Corporation.
2. Johnsonite; a Tarkett company.
3. Roppe Corporation; Roppe Holding Company.

B. Product Standard: ASTM F1861, Type TS (rubber, vulcanized thermoset), Group I (solid, homogeneous).

1. Style and Location:

   a. Cove: Provide in areas with resilient floor coverings.

C. Thickness: 0.125 inch.

D. Height: 4 inches.

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Job formed.

G. Inside Corners: Job formed.

H. Colors: White

2.2 INSTALLATION MATERIALS

A. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
   1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until materials are the same temperature as space where they are to be installed.
   1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. Job-Formed Corners:
   1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
      a. Form without producing discoloration (whitening) at bends.
   2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
      a. Miter or cope corners to minimize open joints.
3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:

   1. Remove adhesive and other blemishes from surfaces.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

END OF SECTION 096513
SECTION 099123 - INTERIOR PAINTING

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 surface preparation and the application of paint systems on interior substrates.

1.3 ACTION SUBMITTALS
   A. Product Data: For each type of product. Include preparation requirements and application
      instructions.
      1. Include Printout of current "MPI Approved Products List" for each product category
         specified, with the proposed product highlighted.
      2. Indicate VOC content.
   B. Samples for Initial Selection: For each type of topcoat product.
   C. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
      1. Submit Samples on rigid backing, 8 inches (200 mm) square.
      2. Apply coats on Samples in steps to show each coat required for system.
      3. Label each coat of each Sample.
      4. Label each Sample for location and application area.
   D. Product List: Cross-reference to paint system and locations of application areas. Use same
      designations indicated on Drawings and in schedules. Include color designations.

1.4 MAINTENANCE MATERIAL SUBMITTALS
   A. Furnish extra materials that match products installed and that are packaged with protective
      covering for storage and identified with labels describing contents.
      1. Paint: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.
1.5 QUALITY ASSURANCE

A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Architect will select one surface to represent surfaces and conditions for application of each paint system.
   
   a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
   b. Other Items: Architect will designate items or areas required.

2. Final approval of color selections will be based on mockups.
   
   a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.7 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).

B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Interior Painting Schedule for the paint category indicated.
2.2 PAINT, GENERAL

A. Material Compatibility:

1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

2.3 SOURCE QUALITY CONTROL

A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:

1. Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Gypsum Board: 12 percent.

C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.

D. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

E. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.
3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Previously Painted Surfaces: Clean surface of all foreign material. Abrade existing painted surfaces. Apply test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, provide additional abrasion or remove previous coating down to substrate. Retest surface for adhesion, and perform additional surface preparation until adhesion testing is successful.

3.3 APPLICATION

A. Apply paints according to manufacturer's written instructions.

1. Use applicators and techniques suited for paint and substrate indicated.

2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.

3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.

4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

1. Paint the following work where exposed in occupied spaces:
   a. Limit painting to new partition and patched areas at the interior.

2. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Contractor shall touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

A. Gypsum Board Walls – Latex Finish

1. Primer: 1 coat SW ProMar 200 Zero VOC Interior Latex Primer
2. Finish: 2 coats SW ProMar 200 Zero VOC Interior Latex

   a. Color: To match existing interior color.

END OF SECTION 099123
SECTION 099600 - HIGH-PERFORMANCE COATINGS

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 surface preparation and the application of high-performance coating systems on the following substrates:

   1. Exterior Substrates:
      a. Steel.
      b. Galvanized metal.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product. Include preparation requirements and application instructions.

B. Samples for Initial Selection: For each type of topcoat product indicated.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

   1. Coatings: 5 percent, but not less than 1 gal. of each material and color applied.

1.5 QUALITY ASSURANCE

A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

   1. Architect will select one surface to represent surfaces and conditions for application of each coating system.

      a. Other Items: Architect will designate items or areas required.
2. Final approval of color selections will be based on mockups.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
   1. Maintain containers in clean condition, free of foreign materials and residue.
   2. Remove rags and waste from storage areas daily.

1.7 FIELD CONDITIONS

A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 95 deg F.
B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
C. Do not apply exterior coatings in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by Tnemec Inc., or approved equal.
B. Products: Subject to compliance with requirements, provide product listed in the Exterior High-Performance Coating Schedule or Interior High-Performance Coating Schedule for the coating category indicated.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

A. Material Compatibility:
   1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
   2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
   3. Products shall be of same manufacturer for each coat in a coating system.
2.3 SOURCE QUALITY CONTROL

A. Testing of Coating Materials: Owner reserves the right to invoke the following procedure:

1. Owner will engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when samples are taken. If coating materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.

2. Testing agency will perform tests for compliance with product requirements.

3. Owner may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

C. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:

1. SSPC-SP 3 Power Tool Cleaning.

E. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.

3.3 APPLICATION

A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."

1. Use applicators and techniques suited for coating and substrate indicated.
2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Coat backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.

D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.

1. Contractor shall touch up and restore coated surfaces damaged by testing.
2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.
3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.6 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

A. Uncoated Steel:
   1. Primer: Tnemec Series 135 Chembuild; 4.0 to 6.0 mils DFT.
   2. Finish Coat: Tnemec Series 1095 Endura-Shield; 2.0 to 5.0 mils.
   3. Color: Matte Black

B. Galvanized Metal:
   1. Primer: Tnemec Series 135 Chembuild; 4.0 to 6.0 mils DFT.
   2. Finish Coat: Tnemec Series 1095 Endura-Shield; 2.0 to 5.0 mils.
   3. Color: Matte Black

END OF SECTION 099600
EXHIBIT D: DRAWINGS
1. THE FOLLOWING NOTES SHALL APPLY THROUGHOUT:

A. WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE AHU-1E BY OTHERS APPLICABLE PROVISIONS OF ALL LAWS AND BY-LAWS BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK.

2. THIS APPLICATION IS SUBJECTED TO BUILDING CODE 2022 FOR COMPLIANCE WITH CHAPTERS 1, 17, & 33 REGARDING NON OCCUPIABLE. THE BUILDING IS CLASSIFIED AS ONE STORY AND THE MAIN BUILDING OCCUPANCY GROUP CLASSIFICATION F-1B (AMPHITEATRE) & CONSTRUCTION CLASSIFICATION 1B (FIREPROOF CONSTRUCTION)

3. AVAILABLE RECORDS INDICATE THE AMPHITEATRE RECEIVED AN AMENDED CERTIFICATE OF OCCUPANCY

4. MATERIALS OR ASSEMBLIES REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:

A. THEY SHALL HAVE BEEN ACCEPTABLE PRIOR TO THE EFFECTIVE DATE OF THE CODE BY THE BOARD OF STANDARDS AND APPEALS (OR) THE PRESCRIBED TEST METHODS BY THE COMMISSIONER (OR) C. APPROVED BY THE OFFICE OF TECHNICAL CERTIFICATION AND RESEARCH (OTCR)

5. ALL WORK TO BE PERFORMED BY EXPERIENCED CREW AND 7. COORDINATION SHED WITH EXISTING SHED AT NEW ACADEMIC BUILDING.

6. ALL NEW WORK SHALL COMPLY WITH THE 2020 NYCECC

7. TR.1 SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO APPLYING FOR CONSTRUCTION PERMITS

DEMOLITION GENERAL NOTES

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE POMERANTZ SHEET NOTES

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER

C. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY MATERIALS.

D. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.

E. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.

F. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF THE WORK.

G. SEE SHEET NOTES FOR MORE SCOPE.

DEMOLITION NOTES

A. EXISTING ROOF DECK IS CONCRETE SLAB ON METAL DECK.

B. REMOVE BASE SHEET, INSULATION BOARDS, ROOFING MEMBRANE, AND MEMBRANE FLASHINGS – ALL ADHERED IN SOLID MOPPINGS OF ASPHALT – DOWN TO THE DECK SURFACE.

C. CLEAN AND PREP ROOF DRAINS.

D. REMOVE AND REPAINT STEEL STAIRS, STEEL GATE, AND STEEL SCREEN, AND RE-INSTALL.

E. CLEAN AND PREP ROOF DRAINS.

F. REMOVE PITCH POCKETS AND ASSOCIATED FILL AND FLASHINGS.

G. SEE SHEET NOTES FOR MORE SCOPE.

H. REMOVE EXISTING CURB. CONDENSOR AND REFRIGERANT LINES TO BE LOCATED AND RECONNECTED BY OTHERS.

I. REMOVE FENCE POST AND GATE. REFINISH AND REINSTALL IN SAME LOCATION.

J. REMOVE COPING, PARAPET MOUNTED FENCE POST, LIGHT Fixture, AND ELECTRICAL COVER. PROTECT PARAPET TO EXISTING POURED CONCRETE DECK SURFACE. SET TO EXISTING POURED CONCRETE DECK SURFACE.

K. REMOVE 2 METAL SCREENS ADJACENT TO NEW ACADEMIC BUILDING. GC TO COORDINATE WITH OWNER. SEE DRAWING SHEET NOTES.

L. DEMOLISH EXISTING ROOFING MEMBRANE, INSULATION BOARD, PEDESTALS, INSULATION BOARDS, AND BASE SHEET TO EXISTING POURED CONCRETE DECK SURFACE. SET SAME LOCATION.

M. DEMOLISH WINDOW WALL INCLUSIVE OF JAMBS, GLAZING, DOORS, SADDLE AND SILL PLATE.

N. DEMOLISH SHED/"DOGHOUSE" ROOF, WALLS, POSTS, SUPPORTS, AND ASSOCIATED FRAMING. CUT OFF POSTS AND TOSTUBS EXTENDING UP THROUGH THE DECK AT EXISTING LOCATION.

O. DUCTWORK FROM NEW ROOFTOP UNITS TO CONNECT WITH CEMENTITIOUS FILL, SMOOTH TOP SURFACE WITH GALVANIZED PLATE. PROVIDE SEALANT AROUND ALL EDGES.
ARCHITECTURAL LEGEND
IRDMLd ROOFING WITH 2X2 CONCRETE PAVERS. SEE SHEET NOTE #4 SET ON HIGH PROFILE WITH SURFACE SLOPE OF LESS THAN 1/8" PER FOOT. SEE SHEET NOTE #5.

CONVENTIONAL TAPERED A.802 AREA OF CEMENTITIOUS FILL CRICKETS. SEE SHEET NOTE #3.
A. All lights shall be controlled by one photocell per roof level and a manual on/off located at the exterior door.

B. Lights shall have 2 zones total. 1 for the lights at the rooftop mechanical units and 1 for the open area.

C. All conduit shall be galvanized and exterior rated.

D. Conduit may not penetrate the roofing assembly.

E. UON, mounting height shall be 7'-0" above roof paver at high point of the roof level the light is facing.

LIGHTING PLAN LEGEND

Bega 24 816W Wall Luminaire Surface Washer 3000K Black

Bega 33 816 Wall Luminaire Directed Light 3000K Black

LF-01

LF-02

(a/b) = Circuit
NOTES:

1. SEE DRAWING # 8 / SHEET A.801.00 FOR MORE

   DEDUCT ALT #1 - PROVIDE NEW LADDER IN LIEU OF SHIP'S LADDER
   FOLLOWING:
   GALVANIZED SQUARE TUBE POST SUPPORTING LF-02, PAINTED BLACK
   GALVANIZED SQUARE TUBE GUARDRAIL, PAINTED BLACK
   SEE DRAWING 8 / SHEET A.801.00 FOR MOUNTING REQUIREMENTS.
   MANUFACTURED FASCIA ASSEMBLY

   25'-0"
   LOCATE ON CENTERLINE OF T.O. GUARDRAIL
   6"
   RELOCATED POST AT SCREEN WALL
   24'-6"
   EQ
   EQ
   ROOF C BEHIND
   7' - 0"
   7' - 0"
   21'-0"
   EXISTING CMU PARAPET

   SCALE: 1/4" = 1'-0"

   NOTES

   PAINTED AND REINSTALLED. SEE SPECS.
   SEE DEMOLITION NOTE #8 FOR MORE INFORMATION.

   2. CONTRACTOR TO SUBMIT SHOP DRAWING OF ENTIRE
   LINE OF SHED REMOVED
   T.O. SCREEN CONSTRUCTION INFORMATION.

   +/- 32'-3"
   ENTIRE METAL SCREEN WALL TO BE RE-PAINTING,
   - 4" MIN. FROM TOP OF WALL
   - 2" MIN. FROM CMU JOINTS.
   - 12" FROM END OF CMU PARAPET

   SCALE: 1/4" = 1'-0"

   NOTES

   REFINISH AND INSTALL SHIPS' LADDER IN SAME LOCATION.
   INFORMATION ON GUARDRAIL AT SHORT PARAPET.
   GALVANIZED LADDER,
   BLACK PAINT
   HOT DIPPED GALVANIZED

   3. SEE LIGHTING PLAN A.201.00 FOR LOCATION OF LF-02
   AT ROOF B
   BEHIND
   MANUFACTURED COPING ASSEMBLY

   T.O. PAREPET

   lf-02
   lf-02
   be behind
   24'-6" T.O. GUARDRAIL
   3' - 0"
   B.O LF-02
   B.O. LF-02
   T.O. GUARDRAIL
   6"
NOTES:

1. SEE ELEVATION #5 / A.701.00 FOR MORE INFORMATION AT STOREFRONT ASSEMBLY.

2. SEE SPECIFICATION SECTIONS 084113 (ALUMINUM-FRAMED B CAP FLASHING EXTENSION AND CLEAT – REMOVE ENTRANCES AND STOREFRONTS), 087100 (GLAZING), AND 088000 (DOOR HARDWARE) FOR MORE ADDITIONAL INFORMATION.

U 4"

D CANT – REMOVE

G INSULATION BOARD – REMOVE – THICKNESS VARIES

T BASE SHEET – REMOVE

I CONCRETE COPING – REMOVE

15 36

V 65

T 6/4" PRECAST CONCRETE PANEL – REMOVE AND SET ASIDE FOR FLASHING. SEE DRAWING #5 / A.701.00 FOR MORE INFORMATION.

SLOPE

SLOPE

RE-INSTALLATION

O WATERPROOFING MEMBRANE – REMOVE

ALIGN WALL TO INSIDE FACE OF COLUMN

"MATCH JOINT"

SPOT ELEVATION OF REVISED DOOR / WINDOW SILL

D 80

E 81

18 18

15 SEALANT

16 WOOD BLOCKING – CONCRETE SCREWS, 2 ROWS – AT EACH END & 24" O.C. BETWEEN ENDS

24" O.C. BETWEEN ENDS

18 BACKER ROD AND PASTE

19 CEMENTITIOUS FILL – THICKNESS VARIES

ZD 46

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