

PROJECT MANUAL

**ORANGE COUNTY COMMUNITY COLLEGE
NEWBURGH CAMPUS
One Washington Center
Newburgh, NY**

**Rad Tech Diagnostic Imaging Expansion Project
Kaplan Hall
ITB-OCCC-2026-27**

ITB-OCCC-2026-27-C - GENERAL CONSTRUCTION WORK
ITB-OCCC-2026-27-H – HVAC WORK
ITB-OCCC-2026-27-P – PLUMBING & FIRE PROTECTION WORK
ITB-OCCC-27-E – ELECTRICAL & FIRE ALARM WORK

DATE: June 18, 2026

ENGINEERING CONSULTANT
FELLENZER ENGINEERING, LLP
22 MULBERRY STREET
MIDDLETOWN, NY 10940
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FE Project No. 23-197



I N D E X T O S P E C I F I C A T I O N S & D R A W I N G S

I N D E X T O S P E C I F I C A T I O N S

DIVISION 0 – PROCUREMENT AND CONTRACTING REQUIREMENTS – (ALL CONTRACTS)

Invitation to Bid

Information for Bidders

Bid Proposal (General Construction, HVAC, Plumbing & Fire Protection, Electrical & Fire Alarm)

Schedule 1 – Bid Bond

Schedule 2 – Offer of Surety

Schedule 3 – Qualifications of Bidder

Schedule 4 – Non-Collusion Bidding Certificate

Schedule 5 – Notice of Award

Schedule 6 – Notice to Proceed

Schedule 7 – Form of Bonds

Schedule 7.1 - Acknowledgment of Surety

Schedule 7.2 – Maintenance Bond

Schedule 7.3 – Labor & Material Payment Bond

Schedule 7.4 – Performance Bond

Agreement

Appendix A – Prevailing Wage Rates

Appendix B – Prevailing Wage Schedule

General Conditions

DIVISION 1 – GENERAL REQUIREMENTS – (ALL CONTRACTS)

<u>Section</u>	<u>Title</u>
01 1000	Special Conditions
01 1040	Project Coordination
01 3000	Administrative Requirements
01 3300	Submittals
01 4000	Quality Requirements
01 4200	References
01 5000	Temporary Facilities and Controls
01 6000	Product Requirements
01 7320	Selective Demolition
01 7700	Project Closeout

DIVISION 02 – EXISTING CONDITIONS – (ALL CONTRACTS)

<u>Section</u>	<u>Title</u>
024119	Selective Structure Demolition

DIVISION 05 – METALS – (C)

SUNY Orange – Newburgh Campus -Kaplan Hall
New X-Ray Suite at Kaplan Hall
FE Project # 23-197

<u>Section</u>	<u>Title</u>
054000	COLD-FORMED METAL FRAMING

DIVISION 06 – WOOD, PLASTICS AND COMPOSITES – (C)

<u>Section</u>	<u>Title</u>
064023	Interior Architectural Woodwork

DIVISION 07 – THERMAL AND MOISTURE PROTECTION – (ALL CONTRACTS)

<u>Section</u>	<u>Title</u>
078413	Penetration Firestopping
079200	Joint Sealants

DIVISION 08 – OPENINGS – (C)

<u>Section</u>	<u>Title</u>
081113	Hollow Metal Doors And Frames
081416	Flush Wood Doors
085649	Radiation Shielding Glazing And Frames
087100	Door Hardware

DIVISION 09 – FINISHES – (ALL CONTRACTS)

<u>Section</u>	<u>Title</u>
092900	Gypsum Board
095123	Acoustical Tile Ceilings
096513	Resilient Base And Accessories
096519	Resilient Tile Flooring
099100	Painting

DIVISION 12 – FURNISHINGS – (C)

122400	Manual Light Block ZIP Flex Shade
123661	Solid Surface Countertops

DIVISION 13 – SPECIAL CONSTRUCTION – (C)

134900	Radiation Protection
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DIVISION 21 – SPRINKLER SPECIFICATIONS – (P)

<u>Section</u>	<u>Title</u>
210500	General Description and Scope- Sprinkler (SP)
210505	General Conditions – Sprinkler System (SP)
210510	Supplemental General Conditions (SP)
210515	Fire Protection Sprinkler System (SP)

DIVISION 22 – PLUMBING SPECIFICATIONS – (P)

SUNY Orange – Newburgh Campus -Kaplan Hall
New X-Ray Suite at Kaplan Hall
FE Project # 23-197

<u>Section</u>	<u>Title</u>
220500	General Description and Scope (P)
220505	General Conditions (P)
220510	Supplemental General Conditions (P)
221116	Water Supply System (P)
221316	Drainage, Waste and Vent System (P)
224000	Fixtures and Installation - (P)

DIVISION 23 – HVAC – (H)

<u>Section</u>	<u>Title</u>
230500	General Description and Scope – HVAC
230505	General Conditions – HVAC
230510	Supplemental General conditions (HVAC)
230593	System Testing, Adjustment and Operation (HVAC, P & SP)
237413	Air Handling and Cooling Systems and Equipment (HVAC)
239000	Sequence of Contract Work

DIVISION 26- ELECTRICAL SPECIFICATIONS – (E)

<u>Section</u>	<u>Title</u>
260100	Scope and General Description
260500	General Conditions
260800	Codes, Permits and Inspections
261000	Materials, Workmanship and Guarantee
264200	Panels and Appurtenances
264400	Individual Equipment Circuits
264600	General Purpose Branch Circuits
265000	Lighting and Equipment
266000	Electrical Connections to HVAC and Plumbing Equipment
267200	Fire Alarm System
269000	Cutover
269200	Completion of Work
269400	Sequence of Contract Work

INDEX TO DRAWINGS

<u>PAGE</u>	<u>DRAWING #</u>	<u>DRAWING TITLE</u>
1	TS	Title Sheet (All Contracts)
2	S-101	Structural: Framing Plans (C)
3	A-001	Architectural: Symbols, Notes, Abbreviations & Schedules (C)
4	AD/A-101	Architectural: Demo & New 2 nd Floor Plans (C)
5	AD/A-201	Architectural: Demo & New 2 nd Floor Reflective CLG Plans (C)
6	A-701	Architectural: Sections & Details (C)
7	A-702	Architectural: Wall Types (C)
8	BMI-001	X-Ray Equipment: Floor Mounted Equipment Details (C&E)
9	BMI-002	X-Ray Equipment: Floor Mounted Equipment Details (C&E)
10	BMI-003	X-Ray Equipment: Ceiling Mounted Equipment Details (C&E)
11	BMI-004	X-Ray Equipment: Ceiling Mounted Equipment Details (C&E)
12	BMI-005	X-Ray Equipment: Ceiling Mounted Equipment Details (C&E)
13	H-001	HVAC: Symbols, Notes & Abbreviations (H)
14	HD/H-101	HVAC: Demo and New 2 nd Floor Plans (H)
15	P-001	Plumbing: Symbols, Notes & Abbreviations (P)
16	P-101	Plumbing: Plaza & 2 nd Floor Sanitary Plans (P)
17	P-102	Plumbing: Second Floor Domestic Plan (P)
18	FP-001	Fire Protection: Symbols, Notes & Abbreviations (P)
19	FPD/FP-101	Fire Protection: Demo & New 2 nd Floor Sprinkler Plans (P)
20	E-001	Electrical: Symbols, Notes & Abbreviations (E)
21	E-100	Electrical: Campus & Plaza Leven and 2 nd Flr Partial Power Plans (E)
22	ED/E-101	Electrical: Demo & New 2 nd Floor Power Plans (E)
23	ED/E-201	Electrical: Demo & New 2 nd Floor Lighting Plans (E)
24	E-601	Electrical: One-Line Diagram (E)
25	E-701	Electrical: Details (E)

END OF DRAWING LIST

INVITATION TO BID

Sealed bids will be received by Orange County Community College for the following contract:

Rad Tech Diagnostic Imaging Expansion Project
OCCC Project # ITB-OCCC-2026-27 / FE Project 23-197
Kaplan Hall, One Washington Center, Newburgh, NY 12550

CONTRACTS ARE FOR: ITB-OCCC-2026-27-C – GENERAL CONSTRUCTION WORK

ITB-OCCC-2026-27-H – HVAC WORK

ITB-OCCC-2026-27-P – PLUMBING & FIRE PROTECTION
WORK

ITB-OCCC-2026-27-E – ELECTRICAL & FIRE ALARM WORK

PRE-BID MEETING: June 24, 2026 at 12:30 PM in Kaplan Hall Lobby

June 26, 2026: RFI Questions are due in writing by 9:00 am to Fellenzer Engineering, 22 Mulberry Street, Middletown, NY 10940 – Email questions in writing to edf@fellp.com

Sealed bids will be received until 2:30 PM Thursday, July 2, 2026, by Orange County Community College (OWNER) at in ORANGE HALL ROOM 213 (OH213), 22 GRANDVIEW AVENUE, Middletown, NY 10940; Bids must be delivered to an individual in the Business Office. Bids will be publicly opened and read aloud in ORANGE HALL ROOM 213 (OH213). Late bids will not be accepted.

Plans, Specifications and Contract Documents for the proposed work are on file and publicly exhibited at Fellenzer Engineering, LLP, 22 Mulberry Street, Middletown, NY 10940 and in the Purchasing Department on the Middletown Campus, in Orange Hall, Room 203.

Complete digital sets of Bidding Documents, drawings and specifications, may be obtained online at www.bidnetdirect.com beginning on June 18, 2026.

Each bid from a Contractor must be accompanied by a bid bond or certified check, payable to the OWNER, in the amount of ten-percent (10%) of the total amount of the bid as security therefore. Insurance is required as stated in the bid specification(s).

All bids shall be submitted subject to the following conditions in addition to the specifics in the bid specification:

1. All bid envelopes must be marked “ITB-OCCC-2026-27, Rad Tech Diagnostic Imaging Expansion Project”, Bid Opening: July 2, 2026 AT 2:30 PM”.
2. The OWNER reserves the right to reject any or all bids and re-advertise for new bids.
3. Each bid must contain the certificate of non-collusive bidding required by Section 103-d of the

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

General Municipal Law, relating to non-collusion (Schedule 4 hereto).

4. No bids shall be withdrawn for a period of sixty (60) days after the receipt thereof, without the consent of the College.

5. The bidder shall make allowances in the bid response for any price increase in labor and materials. Requisitions for work and/or material shall be at the price bid with no additional charges for such increases.

Agnes Wagner, Comptroller
SUNY Orange

INFORMATION FOR BIDDERS

PREPARATION OF BIDS

Each bid or proposal must be typewritten or written in ink on the forms hereto annexed and signed by the bidder. The blank places in the proposal must be filled in as noted and no change shall be made in the phraseology of the proposal or in the items mentioned therein.

Each proposal shall specify the correct gross sum in the manner hereafter described, for which the work will be performed according to the plans and specifications, together with a Lump Sum Bid and/or Unit Price Bid for each of the separate items as called for in the proposal.

EXAMINATION OF PROPOSED CONTRACT

Prior to bid submittal, the prospective bidder shall read and examine with care the Contract Documents (as defined in Article II of the General Conditions), and must, before bidding but no later than ten (10) days prior to bid opening, request of the Engineer in writing an interpretation or correction of every ambiguity, inconsistency, omission or error in the Contract Documents which a reasonably prudent bidder should discover. The bidder's failure to make said request shall constitute a waiver of the right to make any claim whatsoever, including without limitation claims for injunctive relief, damages or rescission by reason of any alleged ambiguity, inconsistency, omission or error in the Contract Documents. The Engineer shall issue in writing by mail to each person or entity of record having submitted the required deposit for Contract Documents its interpretation or correction, as well as any additional contract provisions the Engineer may deem necessary, and shall further post a copy of same at the places where the Contract Documents are kept available for inspection. Upon mailing and posting such interpretation, correction or additional contract provisions shall become a part of the Contract Documents and shall be binding on all bidders. Bidders are on notice that only the Owner's written interpretation or correction shall be valid and binding, and bidders shall not rely on any oral interpretation or correction, for which the Engineer shall not be responsible.

PRE-BID INVESTIGATION

Prior to bid submittal, bidders shall view and investigate the site of the proposed construction work and adjacent area, and it shall be conclusively presumed that each bidder has full knowledge of all conditions on or around the site which may affect in any way the performance of the work to be done under this Contract. The Owner makes no warranties or representations whatsoever with respect to site conditions.

CHANGED SUBSURFACE CONDITIONS

The Owner makes no warranties or representations whatsoever with respect to subsurface conditions. Boring logs, reports and studies, if any, regarding subsurface conditions which may be supplied by the Owner or Engineer are approximate guidelines only, and supplied if at all solely as a convenience to the bidder, who shall not rely thereon and who is responsible for conducting its own investigations. In the event the Contractor encounters during the performance of its work subsurface conditions at the site materially different from those shown in the Contract Drawings or Specifications and which could not reasonably have been anticipated by the Contractor and which will materially affect the cost of the work to be performed under the Contract, the Contractor shall promptly inform the Engineer in writing of such unanticipated conditions. The Engineer shall promptly investigate the conditions. If the Engineer determines that the conditions are materially different and could not have

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

been reasonably anticipated by the Contractor, the Contract may be modified with the Owner's written approval and an appropriate change order issued.

SUBMITTAL OF BIDS

Bids accompanied by a certified check or bid bond must be submitted in a sealed, opaque envelope and appropriately marked with the name of the bidder, project and addressed to the Board advertising for bids, but otherwise unmarked.

BID SECURITY

Each bid or estimate must be accompanied by a certified check or satisfactory Bid Bond in the amount stated in the "Invitation To Bid", which shall be considered as a guaranty that the bidder will execute the Contract and comply with all the statutory provisions thereof within ten (10) days after the Contract form has been delivered to the Contractor by the Owner.

If the successful bidder fails to execute and return the Contract together with the required bonds within ten (10) days as aforesaid, the amount of the Bid Bond and Certified Check made by him shall be forfeited and retained by the Owner as liquidated damages for such failure; but if the Bidder executes the Contract and furnishes required bonds as aforesaid, the amount of the Bid Bond or Certified Check shall be returned to the bidder.

INFORMAL BIDS

Bids that are illegible or that contain omissions, erasures, alterations, additions, or items not called for in the itemized proposal, or that contain irregularities of any kind, may be rejected as informal.

Any bid may also be deemed informal which does not contain prices set opposite each of the items for which there is a quantity exhibited in the itemized proposal or which shall, in any manner, fail to conform to the conditions of the published notice inviting proposals. The lump sum bid and/or unit prices and gross sum bid as called for in the Proposal shall be indicated in words and by figures.

The Owner reserves the right to waive any informalities in or reject all bids submitted, or to accept the bid and award the Contract to the lowest responsible bidder therefore, as provided by law.

BASIS OF AWARD - COMPARISONS OF BIDS

The Contract shall be awarded, if at all, to the lowest responsible bidder. In the case of Lump Sum Contracts, the lowest responsible bid shall be determined by a comparison of the lump sum prices bid, adjusted for alternate prices bid, if any. In the case of Unit Price Contracts, the lowest responsible bidder shall be determined by a comparison of the total, gross price for which the entire work will be performed, arrived at by computing the sum of the estimated quantities specified in the bid at their stated unit prices, as called for in the proposal and in conformity with the specifications.

ERRORS IN BID

In the event that the amount shown in words and its equivalent in figures do not agree, the written words shall be considered binding.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

In the event that the total, gross price set forth in the bid does not agree with the total of all the unit prices as computed from the estimated quantities, the total amount of said unit prices so computed shall be controlling and binding.

UNBALANCED BID

The Owner reserves the right to reject any bid in which the unit prices appear, in the judgment of the Engineer, to constitute an unbalanced, impracticable or unreasonable bid for such work.

APPROXIMATE QUANTITIES

Bidders are advised that the estimate of quantities of the various items of work and materials is approximate only, and is given solely for use as a uniform basis for the comparison of bids and shall not be made the basis of any claim against the Owner. Bidders are responsible for satisfying themselves by personal examination of the site, the work proposed, and the contract documents including the specifications and drawings, and by their own judgment as to the quantities and character of the work to be done, and by such other means as a reasonably prudent bidder would deem necessary, as to the actual conditions and requirements of the work, and shall make their bids accordingly, it being understood that the Contractor will be paid only for the actual quantity of each item of work done at the price specified in the bid proposal.

The Contractor shall assert no claim against the Owner on account of any variation between the estimated quantities and the actual quantities as measured when the work is complete, or on account of any mistake, misunderstanding or misconception as to the nature, location or amount of work to be performed by the Contractor under this Contract.

WORK INCLUDED IN BID PRICE

The lump sum price or, as the case may be, the gross sum price on a unit price contract, shall include all the labor and materials required for the entire completion of the contract work by the Contractor. The price as bid shall include without limitation the restoration, to no less than their original condition existing streets, sidewalks, lawns, driveways, terraces, and all other areas disturbed or damaged by the Contractor during the performance of the contract work.

OFFER OF SURETY

Attention is called to the Offer of Surety and Certificate of Surety in the form annexed hereto as Schedule "2" following the Form of Proposal which must be filled in by all bidders and submitted with their bid.

SECURITY FOR FAITHFUL PERFORMANCE

Simultaneously with its delivery of the executed agreement, the successful bidder must deliver to the Owner an executed bond in the amount of 100 percent of the accepted bid, as security for the faithful performance of its Contract, an executed bond in the amount of 100 percent of the accepted bid, as security for the payment of all persons performing labor, or furnishing materials in connection therewith, prepared on the forms of Performance Bond and Labor and Material Payment Bond attached hereto as Schedule "7", and having as surety thereon, such surety company or companies as are acceptable to and approved by the Owner, and as are authorized to transact business in this State.

MAINTENANCE BOND

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

The Contractor shall, upon final completion and together with the submittal of its requisition for final payment, submit an executed Maintenance Bond in the amount of ten percent (10%) of the Final Contract Price for a period of two (2) years following the date of Final Completion, in the form annexed hereto under Schedule "7".

QUALIFICATION OF BIDDERS

Annexed hereto as Schedule "3" is a form entitled "Qualification of Bidder", which the Contractor must complete and submit with the Proposal, setting forth its qualifications, financial references and references with regard to work of the same type as in this Contract performed by the bidder to completion within the last five (5) years. All bidders shall furthermore furnish a recent certified financial statement promptly at the Owner's request.

The Owner shall have the right to take such steps as it deems necessary to determine the ability of the bidder to perform its obligations under the Contract, and the bidder shall furnish the Owner all such additional information and data for this purpose as the Owner may request. The right is reserved by the Owner to reject any bid, where such requested information has not been provided by the bidder, or the bidder does not satisfy the Owner that the bidder is qualified to properly carry out the terms of the Contract.

LABOR PREFERENCE AND WAGE RATES

The successful bidder shall employ local labor, insofar as the same may be reasonably available. Attention of the Contractor is called to the requirements and obligations of Article XXV of the General Conditions relating to labor law requirements and prevailing wage rates, which are set forth in Appendix A to the General Conditions.

INSURANCE

The successful bidder shall procure and maintain in full force and effect the insurance specified in Article XXIV of the General Conditions.

CERTIFICATE OF NON-COLLUSIVE BIDDING

Each bidder shall submit the certificate of non-collusive bidding annexed hereto as Schedule 4.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

BID PROPOSAL FOR:

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

ITB-OCCC-2026-27-C – GENERAL CONSTRUCTION WORK

Date _____

Project No. _____

Proposal of _____
(hereinafter called "Bidder") organized and existing under the laws of the State of _____
To the _____ (hereinafter called "Owner")

Gentlemen:

The Bidder, in compliance with your invitation for bids for:

Rad Tech Diagnostic Imaging Expansion Project

having examined the plans and specifications with related documents ("Contract Documents") and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The Bidder hereby agrees to commence construction work on this Contract within ten days after the execution of the Contract unless a later starting date is specified, by the Engineer, in the written "Notice to Proceed".

The rate of progress of the work shall be as specified in the Information for Bidders.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

PROPOSAL

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

BID PROPOSAL

The undersigned Bidder agrees to perform all the work described in the specifications and shown on the Drawings for the Bid Prices shown below:

TOTAL BID PRICE (ITB-OCCC-2026-27-C – GENERAL CONSTRUCTION WORK):

_____ Dollars (\$_____).

The amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.

SEQUENCE OF OPERATION

Contractor shall proceed with project based on owner occupancy schedule at time of project kickoff meeting.

SALES TAX EXEMPTION (If Applicable)

State and local sales taxes on construction materials required for construction shall not be included in the bid.

The OWNER is exempt from payment of State and Compensating Use Taxes of the State of New York on all materials sold to it, used on, or for the project pursuant to the provisions of the Contract Documents.

The purchase by subcontractors of materials to be furnished pursuant to the provisions of the Contract shall be a purchase for resale to the Contractor (either directly or through other subcontractors) and hence exempt from sales tax, regardless of the terms of the Contract between the prime contractor and the subcontractor.

PROPOSAL

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

The Bidder further agrees to pay, as liquidated damages, for each consecutive calendar day thereafter, the amount specified in the Information for Bidders.

Name of Bidder

By: _____
Title

Address

City, State, Zip

Telephone Number

Email address

ADDENDA

The Bidder acknowledges the receipt of the following Addenda, but he agrees that he is bound by all Addenda whether or not listed herein:

ADDENDUM NUMBERS AND DATES

Number 1	Dated _____
Number 2	Dated _____
Number 3	Dated _____
Number 4	Dated _____

Signature _____
Bidder, Title

TITLE TO MATERIALS

Title to all materials furnished by the undersigned Contractor to the OWNER, pursuant to the provisions of the Contract, shall immediately vest in the OWNER upon payment by the OWNER for such materials irrespective of whether such materials are installed or incorporated in the project. Such materials shall then become the sole property of the OWNER subject to the right of the OWNER and the Engineer to reject the same, within a reasonable period, for failure to conform to the standards or specifications of the Contract Documents or the purchase orders.

Notwithstanding such transfer of title, the Contractor shall have the sole continuing responsibility to install such materials, protect them, maintain them in proper condition, and forthwith repair, replace and make

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

good any damage thereto, without cost to the Owner until such time as the work covered by this Contract is fully accepted by the Owner and the two year Guarantee period set forth in Article XX of the General Conditions has expired. Such transfer of title shall in no way effect any of the Contractor's obligations under the Contract. In the event that, after title has passed to the Owner, any of such materials are rejected as being defective or otherwise unsatisfactory within the two-year Guarantee Period, the Contractor shall then replace said defective or unsatisfactory materials with other acceptable materials at no additional cost to the Owner. The Owner shall not be responsible for materials lost, stolen or damaged.

Pursuant to the foregoing Information for Bidders, attached hereto is a certified check or bid bond for the sum of 10% of the total amount of the bid submitted, as well as a fully executed offer of surety.

In the event this proposal is accepted by the official Board and the undersigned fails to execute the Contract and furnish a satisfactory bond as required in the foregoing Information for Bidders within ten (10) days, from the date of notification of the awarding of the Contract, then the said Board, may, at its option, determine that the undersigned has abandoned the Contract, and thereupon this proposal shall be null and void, and the certified check or bid bond accompanying this proposal shall be forfeited to and become the property of the Owner as liquidated damages for such failures or neglect; otherwise, such check or bid bond shall be returned to the undersigned.

The word "Bidder" as used in this proposal is to be understood to include the individual, firm or corporation making this proposal. In case a firm shall be the Bidder, it is understood that all statements herein contained shall apply to the firm and each member thereof.

The following are the first and last names of the Bidder, if an individual, and in the case of a corporation, the names of the president, treasurer and manager, or if a partnership, the names of each general partner.

<u>NAME</u>	<u>ADDRESS</u>	<u>SOCIAL SECURITY NO.</u>
_____	_____	_____
_____	_____	_____

Signature: _____

Name and Business

Address of Bidder:

Employer's Identification No.

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

IF THE BIDDER IS A CORPORATION, FILL OUT THE FOLLOWING:

Resolved that _____

be authorized to sign and submit the bid or proposal of this

corporation for the following project:

and to include in such bid or proposal the certificate as to non-collusion required by Section 103-d of the
General

Municipal Law as the act and deed of such corporation and for any inaccuracies or misstatements in such
certificate, this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution

adopted by _____

corporation at a meeting of its Board of Directors held on the

_____ day of _____, 2026.

Secretary

CORPORATION SEAL

Bidder

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

BID PROPOSAL FOR:

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

ITB-OCCC-2026-27-H – HVAC WORK

Date _____

Project No. _____

Proposal of _____
(hereinafter called "Bidder") organized and existing under the laws of the State of _____
To the _____ (hereinafter called "Owner")

Gentlemen:

The Bidder, in compliance with your invitation for bids for:

Rad Tech Diagnostic Imaging Expansion Project

having examined the plans and specifications with related documents ("Contract Documents") and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The Bidder hereby agrees to commence construction work on this Contract within ten days after the execution of the Contract unless a later starting date is specified, by the Engineer, in the written "Notice to Proceed".

The rate of progress of the work shall be as specified in the Information for Bidders.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

PROPOSAL

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

BID PROPOSAL

The undersigned Bidder agrees to perform all the work described in the specifications and shown on the Drawings for the Bid Prices shown below:

TOTAL BID PRICE (ITB-OCCC-2026-27-H – HVAC WORK):

_____ Dollars (\$_____).

The amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.

SEQUENCE OF OPERATION

Contractor shall proceed with project based on owner occupancy schedule at time of project kickoff meeting.

SALES TAX EXEMPTION (If Applicable)

State and local sales taxes on construction materials required for construction shall not be included in the bid.

The OWNER is exempt from payment of State and Compensating Use Taxes of the State of New York on all materials sold to it, used on, or for the project pursuant to the provisions of the Contract Documents.

The purchase by subcontractors of materials to be furnished pursuant to the provisions of the Contract shall be a purchase for resale to the Contractor (either directly or through other subcontractors) and hence exempt from sales tax, regardless of the terms of the Contract between the prime contractor and the subcontractor.

PROPOSAL

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

The Bidder further agrees to pay, as liquidated damages, for each consecutive calendar day thereafter, the amount specified in the Information for Bidders.

Name of Bidder

By: _____
Title

Address

City, State, Zip

Telephone Number

Email address

ADDENDA

The Bidder acknowledges the receipt of the following Addenda, but he agrees that he is bound by all Addenda whether or not listed herein:

ADDENDUM NUMBERS AND DATES

Number 1	Dated _____
Number 2	Dated _____
Number 3	Dated _____
Number 4	Dated _____

Signature _____
Bidder, Title

TITLE TO MATERIALS

Title to all materials furnished by the undersigned Contractor to the OWNER, pursuant to the provisions of the Contract, shall immediately vest in the OWNER upon payment by the OWNER for such materials irrespective of whether such materials are installed or incorporated in the project. Such materials shall then become the sole property of the OWNER subject to the right of the OWNER and the Engineer to reject the same, within a reasonable period, for failure to conform to the standards or specifications of the Contract Documents or the purchase orders.

Notwithstanding such transfer of title, the Contractor shall have the sole continuing responsibility to install such materials, protect them, maintain them in proper condition, and forthwith repair, replace and make

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

good any damage thereto, without cost to the Owner until such time as the work covered by this Contract is fully accepted by the Owner and the two year Guarantee period set forth in Article XX of the General Conditions has expired. Such transfer of title shall in no way effect any of the Contractor's obligations under the Contract. In the event that, after title has passed to the Owner, any of such materials are rejected as being defective or otherwise unsatisfactory within the two-year Guarantee Period, the Contractor shall then replace said defective or unsatisfactory materials with other acceptable materials at no additional cost to the Owner. The Owner shall not be responsible for materials lost, stolen or damaged.

Pursuant to the foregoing Information for Bidders, attached hereto is a certified check or bid bond for the sum of 10% of the total amount of the bid submitted, as well as a fully executed offer of surety.

In the event this proposal is accepted by the official Board and the undersigned fails to execute the Contract and furnish a satisfactory bond as required in the foregoing Information for Bidders within ten (10) days, from the date of notification of the awarding of the Contract, then the said Board, may, at its option, determine that the undersigned has abandoned the Contract, and thereupon this proposal shall be null and void, and the certified check or bid bond accompanying this proposal shall be forfeited to and become the property of the Owner as liquidated damages for such failures or neglect; otherwise, such check or bid bond shall be returned to the undersigned.

The word "Bidder" as used in this proposal is to be understood to include the individual, firm or corporation making this proposal. In case a firm shall be the Bidder, it is understood that all statements herein contained shall apply to the firm and each member thereof.

The following are the first and last names of the Bidder, if an individual, and in the case of a corporation, the names of the president, treasurer and manager, or if a partnership, the names of each general partner.

<u>NAME</u>	<u>ADDRESS</u>	<u>SOCIAL SECURITY NO.</u>
_____	_____	_____
_____	_____	_____

Signature: _____

Name and Business

Address of Bidder:

Employer's Identification No.

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

IF THE BIDDER IS A CORPORATION, FILL OUT THE FOLLOWING:

Resolved that _____

be authorized to sign and submit the bid or proposal of this

corporation for the following project:

and to include in such bid or proposal the certificate as to non-collusion required by Section 103-d of the
General

Municipal Law as the act and deed of such corporation and for any inaccuracies or misstatements in such
certificate, this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution

adopted by _____

corporation at a meeting of its Board of Directors held on the

_____ day of _____, 2026.

Secretary

CORPORATION SEAL

Bidder

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

BID PROPOSAL FOR:

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

ITB-OCCC-2026-27-P – PLUMBING & FIRE PROTECTION WORK

Date _____

Project No. _____

Proposal of _____
(hereinafter called "Bidder") organized and existing under the laws of the State of _____
To the _____ (hereinafter called "Owner")

Gentlemen:

The Bidder, in compliance with your invitation for bids for:

Rad Tech Diagnostic Imaging Expansion Project

having examined the plans and specifications with related documents ("Contract Documents") and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The Bidder hereby agrees to commence construction work on this Contract within ten days after the execution of the Contract unless a later starting date is specified, by the Engineer, in the written "Notice to Proceed".

The rate of progress of the work shall be as specified in the Information for Bidders.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

PROPOSAL

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

BID PROPOSAL

The undersigned Bidder agrees to perform all the work described in the specifications and shown on the Drawings for the Bid Prices shown below:

TOTAL BID PRICE (ITB-OCCC-2026-27-P – PLUMBING & FIRE PROTECTION WORK):

_____ Dollars (\$_____).

The amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.

SEQUENCE OF OPERATION

Contractor shall proceed with project based on owner occupancy schedule at time of project kickoff meeting.

SALES TAX EXEMPTION (If Applicable)

State and local sales taxes on construction materials required for construction shall not be included in the bid.

The OWNER is exempt from payment of State and Compensating Use Taxes of the State of New York on all materials sold to it, used on, or for the project pursuant to the provisions of the Contract Documents.

The purchase by subcontractors of materials to be furnished pursuant to the provisions of the Contract shall be a purchase for resale to the Contractor (either directly or through other subcontractors) and hence exempt from sales tax, regardless of the terms of the Contract between the prime contractor and the subcontractor.

PROPOSAL

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

The Bidder further agrees to pay, as liquidated damages, for each consecutive calendar day thereafter, the amount specified in the Information for Bidders.

Name of Bidder

By: _____
Title

Address

City, State, Zip

Telephone Number

Email address

ADDENDA

The Bidder acknowledges the receipt of the following Addenda, but he agrees that he is bound by all Addenda whether or not listed herein:

ADDENDUM NUMBERS AND DATES

Number 1	Dated _____
Number 2	Dated _____
Number 3	Dated _____
Number 4	Dated _____

Signature _____
Bidder, Title

TITLE TO MATERIALS

Title to all materials furnished by the undersigned Contractor to the OWNER, pursuant to the provisions of the Contract, shall immediately vest in the OWNER upon payment by the OWNER for such materials irrespective of whether such materials are installed or incorporated in the project. Such materials shall then become the sole property of the OWNER subject to the right of the OWNER and the Engineer to reject the same, within a reasonable period, for failure to conform to the standards or specifications of the Contract Documents or the purchase orders.

Notwithstanding such transfer of title, the Contractor shall have the sole continuing responsibility to install such materials, protect them, maintain them in proper condition, and forthwith repair, replace and make

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

good any damage thereto, without cost to the Owner until such time as the work covered by this Contract is fully accepted by the Owner and the two year Guarantee period set forth in Article XX of the General Conditions has expired. Such transfer of title shall in no way effect any of the Contractor's obligations under the Contract. In the event that, after title has passed to the Owner, any of such materials are rejected as being defective or otherwise unsatisfactory within the two-year Guarantee Period, the Contractor shall then replace said defective or unsatisfactory materials with other acceptable materials at no additional cost to the Owner. The Owner shall not be responsible for materials lost, stolen or damaged.

Pursuant to the foregoing Information for Bidders, attached hereto is a certified check or bid bond for the sum of 10% of the total amount of the bid submitted, as well as a fully executed offer of surety.

In the event this proposal is accepted by the official Board and the undersigned fails to execute the Contract and furnish a satisfactory bond as required in the foregoing Information for Bidders within ten (10) days, from the date of notification of the awarding of the Contract, then the said Board, may, at its option, determine that the undersigned has abandoned the Contract, and thereupon this proposal shall be null and void, and the certified check or bid bond accompanying this proposal shall be forfeited to and become the property of the Owner as liquidated damages for such failures or neglect; otherwise, such check or bid bond shall be returned to the undersigned.

The word "Bidder" as used in this proposal is to be understood to include the individual, firm or corporation making this proposal. In case a firm shall be the Bidder, it is understood that all statements herein contained shall apply to the firm and each member thereof.

The following are the first and last names of the Bidder, if an individual, and in the case of a corporation, the names of the president, treasurer and manager, or if a partnership, the names of each general partner.

<u>NAME</u>	<u>ADDRESS</u>	<u>SOCIAL SECURITY NO.</u>
_____	_____	_____
_____	_____	_____

Signature: _____

Name and Business

Address of Bidder:

Employer's Identification No.

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

IF THE BIDDER IS A CORPORATION, FILL OUT THE FOLLOWING:

Resolved that _____

be authorized to sign and submit the bid or proposal of this

corporation for the following project:

and to include in such bid or proposal the certificate as to non-collusion required by Section 103-d of the General

Municipal Law as the act and deed of such corporation and for any inaccuracies or misstatements in such certificate, this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution

adopted by _____

corporation at a meeting of its Board of Directors held on the

_____ day of _____, 2026.

Secretary

CORPORATION SEAL

Bidder

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

BID PROPOSAL FOR:

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

ITB-OCCC-2026-27-E – ELECTRICAL & FIRE ALARM WORK

Date _____

Project No. _____

Proposal of _____
(hereinafter called "Bidder") organized and existing under the laws of the State of _____
To the _____ (hereinafter called "Owner")

Gentlemen:

The Bidder, in compliance with your invitation for bids for:

Rad Tech Diagnostic Imaging Expansion Project

having examined the plans and specifications with related documents ("Contract Documents") and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The Bidder hereby agrees to commence construction work on this Contract within ten days after the execution of the Contract unless a later starting date is specified, by the Engineer, in the written "Notice to Proceed".

The rate of progress of the work shall be as specified in the Information for Bidders.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

PROPOSAL

ORANGE COUNTY COMMUNITY COLLEGE

**SUNY ORANGE – NEWBURGH CAMPUS -KAPLAN HALL
RAD TECH DIAGNOSTIC IMAGING EXPANSION PROJECT
ITB-OCCC-2026-27
ONE WASHINGTON CENTER
NEWBURGH, NY 12550**

BID PROPOSAL

The undersigned Bidder agrees to perform all the work described in the specifications and shown on the Drawings for the Bid Prices shown below:

TOTAL BID PRICE (ITB-OCCC-2026-27-E – ELECTRICAL & FIRE ALARM WORK):

_____ Dollars (\$_____).

The amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.

SEQUENCE OF OPERATION

Contractor shall proceed with project based on owner occupancy schedule at time of project kickoff meeting.

SALES TAX EXEMPTION (If Applicable)

State and local sales taxes on construction materials required for construction shall not be included in the bid.

The OWNER is exempt from payment of State and Compensating Use Taxes of the State of New York on all materials sold to it, used on, or for the project pursuant to the provisions of the Contract Documents.

The purchase by subcontractors of materials to be furnished pursuant to the provisions of the Contract shall be a purchase for resale to the Contractor (either directly or through other subcontractors) and hence exempt from sales tax, regardless of the terms of the Contract between the prime contractor and the subcontractor.

PROPOSAL

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

The Bidder further agrees to pay, as liquidated damages, for each consecutive calendar day thereafter, the amount specified in the Information for Bidders.

Name of Bidder

By: _____
Title

Address

City, State, Zip

Telephone Number

Email address

ADDENDA

The Bidder acknowledges the receipt of the following Addenda, but he agrees that he is bound by all Addenda whether or not listed herein:

ADDENDUM NUMBERS AND DATES

Number 1	Dated _____
Number 2	Dated _____
Number 3	Dated _____
Number 4	Dated _____

Signature _____
Bidder, Title

TITLE TO MATERIALS

Title to all materials furnished by the undersigned Contractor to the OWNER, pursuant to the provisions of the Contract, shall immediately vest in the OWNER upon payment by the OWNER for such materials irrespective of whether such materials are installed or incorporated in the project. Such materials shall then become the sole property of the OWNER subject to the right of the OWNER and the Engineer to reject the same, within a reasonable period, for failure to conform to the standards or specifications of the Contract Documents or the purchase orders.

Notwithstanding such transfer of title, the Contractor shall have the sole continuing responsibility to install such materials, protect them, maintain them in proper condition, and forthwith repair, replace and make

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

good any damage thereto, without cost to the Owner until such time as the work covered by this Contract is fully accepted by the Owner and the two year Guarantee period set forth in Article XX of the General Conditions has expired. Such transfer of title shall in no way effect any of the Contractor's obligations under the Contract. In the event that, after title has passed to the Owner, any of such materials are rejected as being defective or otherwise unsatisfactory within the two-year Guarantee Period, the Contractor shall then replace said defective or unsatisfactory materials with other acceptable materials at no additional cost to the Owner. The Owner shall not be responsible for materials lost, stolen or damaged.

Pursuant to the foregoing Information for Bidders, attached hereto is a certified check or bid bond for the sum of 10% of the total amount of the bid submitted, as well as a fully executed offer of surety.

In the event this proposal is accepted by the official Board and the undersigned fails to execute the Contract and furnish a satisfactory bond as required in the foregoing Information for Bidders within ten (10) days, from the date of notification of the awarding of the Contract, then the said Board, may, at its option, determine that the undersigned has abandoned the Contract, and thereupon this proposal shall be null and void, and the certified check or bid bond accompanying this proposal shall be forfeited to and become the property of the Owner as liquidated damages for such failures or neglect; otherwise, such check or bid bond shall be returned to the undersigned.

The word "Bidder" as used in this proposal is to be understood to include the individual, firm or corporation making this proposal. In case a firm shall be the Bidder, it is understood that all statements herein contained shall apply to the firm and each member thereof.

The following are the first and last names of the Bidder, if an individual, and in the case of a corporation, the names of the president, treasurer and manager, or if a partnership, the names of each general partner.

<u>NAME</u>	<u>ADDRESS</u>	<u>SOCIAL SECURITY NO.</u>
_____	_____	_____
_____	_____	_____

Signature: _____

Name and Business

Address of Bidder:

Employer's Identification No.

Dated: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

IF THE BIDDER IS A CORPORATION, FILL OUT THE FOLLOWING:

Resolved that _____

be authorized to sign and submit the bid or proposal of this

corporation for the following project:

and to include in such bid or proposal the certificate as to non-collusion required by Section 103-d of the
General

Municipal Law as the act and deed of such corporation and for any inaccuracies or misstatements in such
certificate, this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution

adopted by _____

corporation at a meeting of its Board of Directors held on the

_____ day of _____, 2026.

Secretary

CORPORATION SEAL

Bidder

Dated: _____

SCHEDULE 1

BID BOND

KNOW ALL MEN BY THESE PRESENTS, THAT _____

(Here insert the name and address of the Contractor)

as Principal, hereinafter called the Principal, and _____

(Here insert the name and address of the Surety)

as Surety, hereinafter called the Surety, are held and firmly bound unto _____

(Here insert the name and address of the Owner)

as Oblige, hereinafter called the Owner, in the amount of _____

_____ Dollars (\$_____) for the
payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors
and assigns, jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the principal has submitted to the Owner a
certain Bid, attached hereto and hereby made a part hereof to enter into a contract in writing, for
_____.

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract Agreement as stipulated in the INFORMATION FOR BIDDERS attached hereto, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way impaired or affected by an extension of the time within which the Owner may accept such Bid: and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and Surety have executed this instrument, by a duly authorized person or officer in the case of a corporation, under their several seals on the date indicated below.

Signed and sealed this _____ day of _____, 2026.

Principal

SEAL

Title

ATTEST:_____
Witness

Surety

SEAL

Title

ATTEST:_____
Witness

SCHEDULE 2

OFFER OF SURETY

In the event the above proposal is accepted and the undersigned is awarded the Contract for the work, the undersigned offers as surety for provision of a faithful performance bond, and a labor and materials bond, the following surety:

Surety Company

Signed: _____
Bidder

CERTIFICATE OF SURETY, to be signed by a duly authorized official, agent, or attorney of the Surety Company.

In the event that the above proposal is accepted and the Contract for the work is awarded to said

Name of Bidder

the _____
Surety Company

will execute the Surety Bonds as hereinbefore provided.

Signed: _____
Authorized Official, Agent, or
Attorney

Date: _____

SCHEDULE 3

QUALIFICATION OF BIDDER:

State the name, address and phone number of each project owner, Owner's representative whether engineer or architect, or contractor as the case may be, for whom work has been performed within the last five (5) years; the name and address of the project and contract designation; and the nature, location and date of the work performed.

FINANCIAL REFERENCES:

Name	Address	Telephone No.	Relationship to Bidder

SCHEDULE 4

NON-COLLUSIVE BIDDING CERTIFICATE

Pursuant to General Municipal Law § 103-d, the undersigned Bidder and each person signing on behalf of Bidder, 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 their knowledge and belief:

(1) The prices in this 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 this bid have not been knowingly disclosed by the bidder, and will not knowingly be disclosed by the Bidder prior to opening, directly, 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.

Name of Bidder

By: _____

Address

ACCEPTED: _____

(Date) _____

**SCHEDULE 5
NOTICE OF AWARD**

TO: _____

PROJECT DESCRIPTION: Rad Tech Diagnostic Imaging Expansion Project

Total Bid:

The OWNER has considered the BID submitted by you for the above described WORK in response to its INVITATION TO BID.

You are hereby notified that your BID has been accepted for the amount of \$ _____.

You are required by the Information for Bidders to execute the CONTRACT and furnish the required CONTRACTOR'S Performance Bond and Labor and Material Bond within ten (10) days from the receipt of this NOTICE OF AWARD.

If you fail to execute said CONTRACT and to furnish said BONDS within said specified period of time, said OWNER will be entitled to consider all your rights arising out of the OWNER's acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

1. You, as the low bidder, are also required to return an acknowledged copy of this NOTICE OF AWARD to ORANGE COUNTY COMMUNITY COLLEGE within ten (10) calendar days of the date of this Notice by certified mail, return receipt requested.
2. The Contract Signing has been scheduled for the _____ day of _____, 2026, at _____
(prevailing local time) at _____

NOTICE OF AWARD, dated this _____ day of _____, 2026.

By: _____
Title

ACCEPTANCE OF NOTICE OF AWARD
is hereby acknowledged

this the _____ day of _____, 2026.

By: _____

Title: _____

SCHEDULE 6

NOTICE TO PROCEED

TO: _____

PROJECT DESCRIPTION: Rad Tech Diagnostic Imaging Expansion Project

You are hereby notified to commence work in accordance with the above referenced CONTRACT dated _____, 2026 within ten calendar days of _____, 2026 and that you are to fully complete the CONTRACT by _____ 2026.

You, as the CONTRACTOR, are required to return an acknowledged copy of the NOTICE TO PROCEED to the ENGINEER within ten (10) calendar days of the date of this Notice by certified mail, return receipt requested.

NOTICE TO PROCEED dated this ____ day of _____, 2026.

By: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO
PROCEED is hereby acknowledged

By: _____
Title: _____
Date: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

SCHEDULE 7

FORM OF BONDS

ACKNOWLEDGEMENT OF SURETY

STATE OF _____)
)
COUNTY OF _____) SS:

On this _____ day of _____, 2026,
before me personally came and appeared _____
_____ to be known, who, being by me duly sworn, did depose and say that he (she)
resides at _____, that he (she) is the _____ of _____
_____ the corporation described in and which executed the foregoing
instrument; that he (she) knows the seal of said corporation; that one of the seals affixed to said
instrument is such seal; that it was so affixed by order of the Directors of said corporation; and that he
(she) signed his (her) name thereto by like order.

Notary Public (SURETY SEAL)

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS, THAT WE, _____ of _____ (hereinafter called the Principal), as Principal, and _____

(Here insert the name and address of the Surety)
authorized to become Surety in the State of _____ (hereinafter called the Surety) as Surety, are held and firmly bound unto _____ (hereinafter called the Owner) in the penal sum of _____ Dollars (\$ _____) to which payment well and truly to be made we do bind ourselves, our and each of our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal entered into a contract with the Owner dated _____ for _____ in accordance with the drawings and specifications prepared by _____, which contract is by reference made a part hereof, and is hereafter referred to as the Contract.

WHEREAS, said Contract, in General Conditions Article XX, provides that the Principal will furnish a Bond conditioned to guarantee for the period of two years following final acceptance of the Work by the Owner, or two years following completion of any corrective action as defined therein, as the case may be, against all defects in workmanship and materials which may become apparent during said Guarantee Period;

NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION ARE SUCH that, the Principal shall indemnify the Owner for all loss and damage that the Owner may sustain by reason of any defective materials or workmanship which become apparent during the Guarantee Period, and if the Principal so performs, then this obligation shall be void, but otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the Principal and Surety have executed this instrument, by a duly authorized person or officer in the case of a corporation, under their several seals on the date indicated below:

Signed and sealed this _____ day of _____, 2026.

Principal

CORPORATION SEAL

Title

ATTEST: _____
Witness

Surety

SURETY SEAL

Title

ATTEST: _____
Witness

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, THAT _____

(Here insert the name and address of the Contractor)

as Principal, hereinafter called the Principal, and _____

(Here insert the name and address of the Surety)

as Surety, hereinafter called the Surety, are held and firmly bound unto _____

(Here insert the name and address of the Owner)

as Obligee, hereinafter called the Owner, for the use and benefit of the claimants as herein below defined, in the

amount of _____ Dollars (\$ _____)

for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors
and assigns jointly and severally, firmly by these present.

WHEREAS, Principal has by written agreement, dated _____, 2026, entered into a contract
with the Owner for _____ in accordance with the drawings and specifications
prepared by _____ which contract is
by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, the conditions of this obligation are such that if the Principal, or its
representatives or assigns and other subcontractors to whom Work under this Contract is sublet and its or their
successors and assigns shall promptly pay or cause to be paid all lawful claims for:

1. Wages and compensation for labor performed and services rendered by all persons engaged in the prosecution of the Work under said Contract; and any amendment or extension thereof or addition thereto, whether such persons be agents, servants or employees of the Principal or of any such subcontractor, including all persons so engaged who perform the work of laborers or mechanics at or in the vicinity of the site of the Project regardless of any contractual relationship between the Principal or such subcontractors, or its or their successors or assigns, on the one hand and such laborers or mechanics on the other, but not including office employees not regularly stationed at the site of the project; and

2. Materials and supplies (whether incorporated in the permanent structure or not), as well as utilities, power, heat, electricity, fuels, oils, implements or machinery furnished, used or consumed by said Principal or any subcontractor at or in the vicinity of the site of the Project in the prosecution of the Work under said Contract and any amendment or extension thereof or addition thereto; then this obligation shall be void; otherwise to remain in full force and effect.

3. This bond is subject to the following additional conditions, limitations and agreements:

(a) The Principal and Surety agree that the bond shall be for the benefit of any material man or laborer having a just claim, as well as the Owner itself.

(b) All persons who have performed labor, rendered services or furnished materials and supplies, as aforesaid, shall have a direct right of action against the Principal and its or their successors and assigns, and the Surety herein, or against either or both or any of them and their successors and assigns. Such persons may sue in their own name, and may prosecute the suit to judgment and execution without the necessity of joining with any other person as party plaintiff.

(c) The Principal and Surety agree that neither of them will hold the Owner liable for any judgment for damages or for costs or otherwise, obtained by either or both of them against a laborer or material man in a suit brought by either a laborer or material man under this bond for moneys allegedly due for performing work or furnishing material.

In no event shall the Surety, or its successor or assigns, be liable for a greater sum than the

penalty of this bond or be subject to any suit, action or proceeding hereon that is instituted by any person, firm, or corporation hereunder later than two years after the complete performance of said Contract and final settlement thereof.

(d) Notwithstanding any of the foregoing limitations herein, this bond shall secure the prompt payment or discharge otherwise of any claim filed with the provisions of the Labor or Lien Law of the State of New York, governing liens on account of public improvements, notice of which is given by the Obligee to the Surety within thirty (30) days after the filing thereof with the Obligee, addressed to the Surety at its regular place of business.

4. The Principal, for itself and its successors and assigns, and the Surety, for itself and its successors and assigns, do hereby expressly waive any objection that might be interposed as to the right of the Owner to require a bond containing the foregoing provisions, and they do hereby further expressly waive any defense which they or either of them might interpose to an action brought hereon by any person, firm or corporation, including subcontractors, material men and third persons, for work, labor, services, supplies or material performed, rendered, or furnished as aforesaid upon the ground that there is no law authorizing the Owner to require the foregoing provisions to be placed in this bond.

5. And the Surety, for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of said Surety, and its bonds shall be in no way impaired or affected by any extension of time, modification, omission, addition, or change in or of the said Contract or the work to be performed hereunder, or by any payment hereunder before the time required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any part thereof, or of any Work to be performed, or any moneys due or to become due hereunder and said Surety does hereby waive notice of any and all of such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers, and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, Subcontractors, and other transferees shall have the same effect as to said Surety as though done or omitted to be done by or in relation to said Principal.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

IN WITNESS WHEREOF, the Principal and Surety have executed this instrument, by a duly authorized person or officer in the case of a corporation, under their several seals on the date indicated below:

Signed and sealed this _____ day of _____, 2026.

Principal

CORPORATION SEAL

Title

ATTEST: _____
Witness

Surety

SURETY SEAL

Title

ATTEST: _____
Witness

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, THAT _____

(Here insert the name and address of the Contractor)

as Principal, hereinafter called the Principal, and _____

(Here insert the name and address of the Surety)

as Surety, hereinafter called the Surety, are held and firmly bound unto _____

(Here insert the name and address of the Owner)

as Obligee, hereinafter called the Owner, in the amount of _____

_____ Dollars (\$ _____) for

the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors
and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated _____, 2026 entered into a contract
with the Owner for _____

in accordance with the drawings and specifications prepared by _____

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

NOW, THEREFORE, the conditions of this obligation are such that if the Principal, or its representatives or assigns, shall well and faithfully perform the said Contract and all modifications, amendments, additions and alterations thereto that may hereafter be made, according to its terms and its true intent and meaning, including repair and/or replacement of defective work and guarantees of maintenance for the periods stated in the Contract, and shall fully indemnify and save harmless the Owner from all cost and damage which it may suffer by reason of failure so to do, and shall fully reimburse and repay for all outlay and expense which the Owner may incur in making good any such default, and shall protect the said Owner against, and pay any and all amounts, damages, costs and judgments which may or shall be recovered against said Owner or its officers or agents of which the said Owner may be called upon to pay to any person or corporation by reason of any damages arising or growing out of the doing of said Work, or the repair or maintenance thereof, or the manner of doing the same, or the neglect of the said Principal, or its agents or servants, or the improper performance of the said Work by the said Principal, or its agents or servants, or the infringement of any patent or patent rights by reason of the use of any materials furnished or work done as aforesaid or otherwise, then this obligation shall be null and void, otherwise to remain in full force and effect.

The Surety, for value received, hereby stipulates and agrees, if requested to do so by the Owner, to fully perform and complete the Work to be performed under the Contract, pursuant to the terms, conditions, covenants thereof, if for any cause, the Principal fails or neglects to so fully perform and complete such Work. The Surety further agrees to commence such work to completion within thirty (30) days after written notice thereof from the Owner and to complete such Work within such time as the Owner may fix.

The Surety, for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of said Surety and its bond shall be in no way impaired or affected by any extension of time, modification, omission, addition, or change in or to the said Contract or the Work to be performed there under, or by any payment there under before the time required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any Work to be performed or any moneys due or to become due there under; and said Surety does hereby waive notice of any and all of such extensions,

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers, and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, subcontractors, and other transferees shall have the same effect as to said Surety as though done or omitted to be done by or in relation to said Principal.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the assigns or successors of the Owner.

IN WITNESS WHEREOF, the Principal and Surety have executed this instrument, by a duly authorized person or officer in the case of a corporation, under their several seals on the date indicated below.

Signed and sealed this _____ day of _____, 2026.

Principal

SEAL

Title

ATTEST: _____
Witness

Surety

SEAL

Title

ATTEST: _____
Witness

AGREEMENT

This Agreement is entered into this _____ day of _____, 2026 in the City of Middletown, County of Orange, New York, by and between the Orange County Community College (hereinafter called the "OWNER"), whose address is 115 South Street, Middletown, N.Y. 10940, and _____, as Contractor, by _____ whose address is _____

(hereinafter called the "Contractor") in consideration of the covenants, promises and agreements contained herein.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

APPENDIX A

Prevailing Wage Rates



Kathy Hochul, Governor

Roberta Reardon, Commissioner

Orange County Community Colleg

Donella Walker
115 South Street
Middletown NY 10940

Schedule Year 2025 through 2026
Date Requested 03/10/2026
PRC# 2026006704

Location 1 Washington Center
Project ID# ITB-OCCC-2026-23
Project Type Rad Tech Diagnostic Imaging Expansion Project -minor renovations and alterations to three existing classrooms

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 Rate Case Number (PRC#) has been assigned to the schedule(s) for your project.

The schedule is effective from July 2025 through June 2026. 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.

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

General Provisions of Laws Covering Workers on Article 8 Public Work Contracts

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.

Contractor Registry

Effective December 30, 2024 all contractors and subcontractors submitting bids or performing construction work on public work projects, or private projects covered by Article 8 of the Labor Law, are required to register with the New York State Department of Labor (NYSDOL) under Labor Law Section 220-i. To register, contractors and subcontractors must submit an application through NYSDOL's Contractor Registry portal which is available through the agency's Management System for Protecting Worker Rights (MPWR) <https://mpwr-public.labor.ny.gov/en/login>.

For additional information, please visit [online](#).

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.

The Department of Jurisdiction (Contracting Agency) is required to notify the Bureau of the completion or cancellation of any public work project. The Department's PW 200 form is provided for that purpose.

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.

Upon receiving the original schedule, the Department of Jurisdiction (Contracting Agency) is REQUIRED to provide complete copies to all prime contractors who in turn MUST, by law, provide copies of all applicable county schedules to each subcontractor and obtain from each subcontractor, an affidavit certifying such schedules were received. If the original schedule expired, the contractor may obtain a copy of the new annual determination from 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

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 journeyworkers 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 journeyworker'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.



Kathy Hochul, Governor

Roberta Reardon, Commissioner

Orange County Community Colleg

Donella Walker
115 South Street
Middletown NY 10940

Schedule Year 2025 through 2026
Date Requested 03/10/2026
PRC# 2026006704

Location 1 Washington Center
Project ID# ITB-OCCC-2026-23
Project Type Rad Tech Diagnostic Imaging Expansion Project -minor renovations and alterations to three existing classrooms

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:	
Approximate Starting Date: ____/____/____	<input type="checkbox"/> (01) General Construction	
Approximate Completion Date: ____/____/____	<input type="checkbox"/> (02) Heating/Ventilation	
	<input type="checkbox"/> (03) Electrical	
	<input type="checkbox"/> (04) Plumbing	
	<input type="checkbox"/> (05) Other : _____	

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12226

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.

Chapter 511 of the Laws of 1995 (as amended by Chapter 513 of the Laws of 1997, Chapter 655 of the Laws of 1999, Chapter 376 of the Laws of 2003 and Chapter 407 of the Laws of 2005) established 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.

Required Notice under Article 25-B of the Labor Law

**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	Patchogue	(631) 687-4882
Binghamton	(607) 721-8005	Rochester	(585) 258-4505
Buffalo	(716) 847-7159	Syracuse	(315) 428-4056
Garden City	(516) 228-3915	Utica	(315) 793-2314
New York City	(212) 932-2419	White Plains	(914) 997-9507
Newburgh	(845) 568-5287		

* 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: _____

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.

*Contractor Registry (LL 220-I): Effective December 30th, 2024

Labor Law Section 220-i(6) prohibits contractors from bidding on public work and prohibits both contractors and subcontractors from commencing work on private and public projects subject to prevailing wage requirements. This section requires contractors to submit their Certificate of Registration with their bid materials. Each Certificate of Registration will have a unique registration number. Failure to provide proof of registration, as required by Labor Law Section 220-i, as a minimum qualification will result in the bidder being deemed non-responsive. There is a public database of registered contractors and subcontractors available online at data.ny.gov to confirm registration validity. For additional information on how to register and the requirements, visit <https://dol.ny.gov/public-work-contractor-and-subcontractor-registry-landing>

*Electronic Certified Payroll (LL 220-J): Effective December 31st, 2025

Effective December 31, 2025, all contractors and subcontractors who perform public work, or covered private work subject to the prevailing wage, will be required to submit certified payrolls electronically to the Bureau of Public Work and Prevailing Wage Enforcement. Additional information about the electronic certified payroll submission system will be made available on the Department's Website at <https://dol.ny.gov/Electronic-Payroll>

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. Payrolls must be maintained for at least three (3) years from the projects date of completion. Additionally, 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.

Payroll records and transcripts are required to be kept on site during all the time that work under that contract is being performed.

NOTE: For more detailed information regarding Article 9 prevailing wage contracts, please refer to "General Provisions of Laws Covering Workers on Article 9 Public Work Building Service Contracts".

If you have any questions concerning the attached schedule or would like additional information, please write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12240

OR

Contact the nearest BUREAU of PUBLIC WORK District Office

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004

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

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.

Shift Work

If the timeline of the contract requires shift work be performed to meet deadlines, the BPWE will enforce the shift work rate as the required rate on the project whether or not shift work is specifically addressed in the contract.

Paid Prenatal Leave

Every employer shall be required to provide to its employees twenty hours of paid prenatal personal leave during any fifty-two week calendar period. Paid prenatal personal leave shall mean leave taken for the health care services received by an employee during their pregnancy or related to such pregnancy, including physical examinations, medical procedures, monitoring and testing, and discussions with a healthcare provider related to the pregnancy. Paid prenatal personal leave may be taken in hourly increments. Benefits for paid prenatal personal leave shall be paid in hourly installments. Employees shall receive compensation at the employee's regular rate of pay, or the applicable minimum wage established by the labor law, whichever is greater, for the use of Paid Prenatal leave.

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.

Title (Trade)	Ratio
Boilermaker (Construction)	1:1,1:4
Boilermaker (Shop)	1:1,1:3
Carpenter (Bldg.,H&H, Pile Driver/Dockbuilder)	1:1,1:4
Carpenter (Residential)	1:1,1:3
Electrical (Outside) Lineman	1:1,1:2
Electrician (Inside)	1:1,1:3
Elevator/Escalator Construction & Modernizer	1:1,1:2
Glazier	1:1,1:3
Insulation & Asbestos Worker	1:1,1:3
Iron Worker	1:1,1:4
Laborer	1:1,1:3
Mason	1:1,1:4
Millwright	1:1,1:4
Op Engineer	1:1,1:5
Painter	1:1,1:3
Plumber & Steamfitter	1:1,1:3
Roofer	1:1,1:2
Sheet Metal Worker	1:1,1:3
Sprinkler Fitter	1:1,1:2

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 - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004
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

Orange County General Construction

Boilermaker	03/01/2026
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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: 07/01/2025 01/01/2026

Boilermaker \$ 68.88 \$ 70.38

Repairs & Renovations 68.88 70.38

Repairs & Renovation: Includes Repairing, Renovating and Replacement of parts to an existing unit(s).

SUPPLEMENTAL BENEFITS

Per Hour:

Boilermaker 33.5% of Hourly
Repair & Renovations Wage Paid
+ \$26.85

NOTE: "Hourly Wage Paid" shall include any and all premium(s) pay.

OVERTIME PAY

See (*B, O, **U) on OVERTIME PAGE

Note:* Includes 9th & 10th hours, double for 11th or more.

** Labor Day ONLY, if worked.

Repairs & Renovation see (B,E,Q) on OT Page

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 11, 12, 15, 25, 26, 29) on HOLIDAY PAGE

REGISTERED APPRENTICES

(1/2) Year Terms at the following percentage of Boilermaker's wage per hour:

1st	2nd	3rd	4th	5th	6th	7th
65%	70%	75%	80%	85%	90%	95%

SUPPLEMENTAL BENEFITS:

33.5% of Hourly Wage Paid Plus Amount Below:

1st	2nd	3rd	4th	5th	6th	7th
\$20.36	21.28	22.22	23.12	24.07	25.00	25.93

NOTE: "Hourly Wage Paid" shall include any and all premium(s)

4-5

Broadband	03/01/2026
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JOB DESCRIPTION Broadband

DISTRICT 4

ENTIRE COUNTIES

Bronx, Kings, Nassau, New York, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

PARTIAL COUNTIES

Orange: Entire County except Village of Greenwood Lake, Village of Highland Falls, Town of Tuxedo, and Town of Patterson

WAGES

Per Hour: 07/01/2025 07/01/2026

Field Tech \$ 53.97 \$ 55.59

Install/Repair

"Broadband", "Broadband Service", or "Broadband Internet" means mass-market retail service by wire or radio that provides the capability to transmit data to and receive data from all or substantially all internet endpoints, including any capabilities that are incidental to and enable the operation of the communications service, but excluding dial-up internet access service.

For outside work (excluding installation on building construction/alteration/renovation projects), stopping at first point of attachment (demarcation), installing/maintaining/repairing broadband internet service.

Applies to projects receiving ConnectAll funding that are subject to New York State Labor Law §224-E.

SUPPLEMENTAL BENEFITS

Per Hour:

\$ 23.54

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

Overtime: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

4-CWA-Dist1

Broadband

03/01/2026

JOB DESCRIPTION Broadband

DISTRICT 4

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

PARTIAL COUNTIES

Orange: Only in the Village of Greenwood Lake, Village of Highland Falls, Town of Tuxedo, and Town of Patterson

WAGES

NOTE: Applies to all public work and covered private projects, including those receiving ConnectAll funding subject to New York State Labor Law §224-E, solicited on or after July 1,2025. For all other projects solicited prior to July 1,2025 please see LINEMAN ELECTRICIAN-TELEDATA

Per Hour: 07/01/2025 08/04/2025

Field Tech \$ 51.31 \$ 52.85
Install/Repair

For outside work (excluding installation on building construction/alteration/renovation projects), stopping at first point of attachment (demarcation), installing/maintaining/repairing broadband internet service.

"Broadband", "Broadband Service", or "Broadband Internet" means mass-market retail service by wire or radio that provides the capability to transmit data to and receive data from all or substantially all internet endpoints, including any capabilities that are incidental to and enable the operation of the communications service, but excluding dial-up internet access service.

Note: EXCLUDES work within ten (10) feet of High Voltage (600 Volts and over) transmission lines for this work, please see LINEMAN

SUPPLEMENTAL BENEFITS

Per Hour:

\$ 23.24

OVERTIME PAY

See (B, K, *R) on OVERTIME PAGE

* Two and one half times the hourly rate after the 8th hour

HOLIDAY

Paid: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

Overtime: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

4-CWA-Dist2

Carpenter

03/01/2026

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

Dutchess, Orange

WAGES

Per hour: 07/01/2025

Building: \$ 47.83
Millwright + 8.44*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 35.39

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (18, 19) on HOLIDAY PAGE

Paid: See (5,6,11,13,16,18,19,25) for 1st & 2nd yr. Apprentices

Overtime: See (5,6,11,13,16,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES

Wages per hour:

One (1) year terms:

1st	2nd	3rd	4th
\$ 28.76	\$ 31.29	\$ 35.82	\$ 44.88
+ 4.40*	+ 5.19*	+ 5.94*	+ 7.44*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

Supplemental benefits per hour:

1st	2nd	3rd	4th
\$ 23.45	\$ 25.24	\$ 27.35	\$ 30.08

8-740.2

Carpenter

03/01/2026

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

Dutchess

PARTIAL COUNTIES

Orange: : The territory west demarcated by a line drawn from the Bear Mountain Bridge continuing east to the Bear Mountain Circle. The territory south demarcated by a line continuing north on 9W to the town of Cornwall where County Road 107 (also known as Quaker Rd) crosses under 9W to the centerline of Route 32, The territories south and east heading north on Route 32 to Orrs Mills Rd, then west on Orrs Mills Rd to Route 94, continue west and south on Route 94 to the Town of Chester, to the intersection of Kings Highway, continue south on Kings Highway to Bellvale Rd, west on Bellvale Rd to Bellvale Lakes Rd, then south on Bellvale Lakes Rd to Kain Rd, southeast on Kain Rd to Route 17A, then north and southeast along Route 17A to Route 210, then follow Route 210 to NJ Border.

WAGES

Per hour: 07/01/2025

Carpet/Resilient

Floor Coverer \$ 36.78
+ 3.48*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

INCLUDES HANDLING & INSTALLATION OF ARTIFICIAL TURF AND SIMILAR TURF INDOORS/OUTDOORS.

SUPPLEMENTAL BENEFITS

Per hour:

\$ 29.09

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:

1st	2nd	3rd	4th
\$17.04	\$20.32	\$25.22	\$30.14

+ 2.54* + 2.54* + 2.54* + 2.54*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

Supplemental Benefits per hour - All apprentice terms:

\$ 21.47

8-2287D&O

Carpenter**03/01/2026****JOB DESCRIPTION** Carpenter**DISTRICT 8****ENTIRE COUNTIES**

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

WAGES

Per Hour: 07/01/2025

Marine Construction:

Marine Diver \$ 76.46
 + 10.16*

Marine Tender \$ 56.00
 + 10.16*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyworker \$ 46.48

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (18, 19) on HOLIDAY PAGE

Overtime: See (5, 6, 11, 13, 16, 18, 19, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One (1) year terms.

1st year \$ 27.98
 + 5.66*
2nd year 33.58
 + 5.66*
3rd year 41.96
 + 5.66*
4th year 50.35
 + 5.66*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

Supplemental Benefits

Per Hour:

All terms \$ 33.03

8-1456MC

Carpenter**03/01/2026****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: 07/01/2025

Core Drilling:

Driller \$ 47.88
+ 3.45*

Driller Helper

\$ 37.58
+ 3.45*

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 of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

SUPPLEMENTAL BENEFITS

Per hour:

Driller and Helper \$ 31.04

OVERTIME PAY

See (B, G, P) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 13, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 25) on HOLIDAY PAGE

8-1536-CoreDriller

Carpenter - Building / Heavy&Highway

03/01/2026

JOB DESCRIPTION Carpenter - Building / Heavy&Highway

DISTRICT 2

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

PARTIAL COUNTIES

Orange: The area lying on Northern side of Orange County demarcated by a line drawn from the Bear Mountain Bridge continuing west to the Bear Mountain Circle, continue North on 9W to the town of Cornwall where County Road 107 (also known as Quaker Rd) crosses under 9W, then east on County Road 107 to Route 32, then north on Route 32 to Orrs Mills Rd, then west on Orrs Mills Rd to Route 94, continue west and south on Route 94 to the Town of Chester, to the intersection of Kings Highway, continue south on Kings Highway to Bellvale Rd, west on Bellvale Rd to Bellvale Lakes Rd, then south on Bellvale Lakes Rd to Kain Rd, southeast on Kain Rd to Route 17A, then north and southeast along Route 17A to Route 210, then follow Route 210 to NJ Border.

WAGES

Wages per hour:	07/01/2025	07/01/2026 Additional	07/01/2027 Additional
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Carpenter - ONLY for

Artificial Turf/Synthetic

Sport Surface	\$ 37.94	\$ 2.25*	\$ 2.25*
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* To be allocated at a later date.

Note - Does not include the operation of equipment. Please see Operating Engineers rates.

SUPPLEMENTAL BENEFITS

Per hour worked:

Journeyworker \$ 27.34

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5) on HOLIDAY PAGE

Overtime: See (5, 6, 16) on HOLIDAY PAGE

Notes:

When a holiday falls upon a Saturday, it shall be observed on the preceding Friday. When a holiday falls upon a Sunday, it shall be observed on the following Monday.

An employee taking an unexcused day off the regularly scheduled day before or after a paid Holiday shall not receive Holiday pay.

REGISTERED APPRENTICES

Wages per hour (1300 hour terms at the following percentage of Journeyworker's wage):

1st	2nd	3rd	4th
65%	70%	75%	80%

Supplemental Benefits per hour worked:

\$19.10	\$19.69	\$21.83	\$22.42
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2-42AtSS

Carpenter - Building / Heavy&Highway

03/01/2026

JOB DESCRIPTION Carpenter - Building / Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Columbia, Dutchess, Orange, Sullivan, Ulster

WAGES

WAGES (per hour)

Applies to Carpenter (Building/Heavy & Highway/Tunnel), Dockbuilder, Piledriver, Dive Tender, and Diver (Dry):

	07/01/2025	07/01/2026
Base Wage	\$ 38.34 + 6.38*	Additional \$ 2.30**

Applies to Diver (Wet):

Base Wage	\$ 50.00 + 6.38*
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*For all hours paid straight or premium.

**To be allocated at a later date.

SHIFT WORK

SHIFT DIFFERENTIAL: When mandated by a Government Agency irregular or off shift can be worked. The Carpenter shall receive an additional fifteen percent (15%) of the base wage.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 31.66
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OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

BUILDING:

Paid: See (1) on HOLIDAY PAGE.

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE.

- Holidays that fall on Sunday will be observed Monday.

HEAVY&HIGHWAY/TUNNEL:

Paid: See (5, 6, 25) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

- Holidays that fall on Sunday will be observed Monday

- Must be employed during the five (5) work days immediately preceding a holiday or during the five (5) work days following the paid holiday to receive holiday pay

- If Employee is entitled to a paid holiday, the Employee is paid the Holiday wage and supplemental benefits whether they work or not. If Employee works the Holiday, the Employee will receive holiday pay (including supplemental benefits), plus the applicable premium wage for working the Holiday. If Employee works in excess of 8 hours on Holiday, then benefits will be paid for any hours in excess of 8 hours.

REGISTERED APPRENTICES

1 Year terms at the following wage rates.

1st	2nd	3rd	4th
\$ 19.17	\$ 23.00	\$ 26.84	\$ 30.67
+3.09*	+3.09*	+3.09*	+3.09*

*For all hours paid straight or premium

SUPPLEMENTAL BENEFITS per hour:

All Terms	\$ 16.81
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Carpenter - Floor Coverer

03/01/2026

JOB DESCRIPTION Carpenter - Floor Coverer

DISTRICT 11

ENTIRE COUNTIES

Columbia, Sullivan, Ulster

PARTIAL COUNTIES

Orange: The area lying on Northern side of Orange County demarcated by a line drawn from the Bear Mountain Bridge continuing west to the Bear Mountain Circle, continue North on 9W to the town of Cornwall where County Road 107 (also known as Quaker Rd) crosses under 9W, then east on County Road 107 to Route 32, then north on Route 32 to Orrs Mills Rd, then west on Orrs Mills Rd to Route 94, continue west and south on Route 94 to the Town of Chester, to the intersection of Kings Highway, continue south on Kings Highway to Bellvale Rd, west on Bellvale Rd to Bellvale Lakes Rd, then south on Bellvale Lakes Rd to Kain Rd, southeast on Kain Rd to Route 17A, then north and southeast along Route 17A to Route 210, then follow Route 210 to NJ Border.

WAGES

WAGES:(per hour)

	07/01/2025	07/01/2026
		Additional
Carpet/Resilient Floor Coverer	\$ 38.34	\$ 2.30**
	+6.38*	

* For all hours paid straight or premium

** To be allocated at a later date.

SHIFT WORK

SHIFT DIFFERENTIAL: When mandated by a Government Agency irregular or off shift can be worked. The Carpenter shall receive an additional fifteen (15) percent of wage plus applicable benefits.

SUPPLEMENTAL BENEFITS

Per hour:

Journey worker \$ 31.66

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

BUILDING:

Paid: See (1) on HOLIDAY PAGE.

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE.

- Holidays that fall on Sunday will be observed Monday.

HEAVY&HIGHWAY/TUNNEL:

Paid: See (5, 6, 25) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

- Holidays that fall on Sunday will be observed Monday

- Must be employed during the five (5) work days immediately preceding a holiday or during the five (5) work days following the paid holiday to receive holiday pay

- If Employee is entitled to a paid holiday, the Employee is paid the Holiday wage and supplemental benefits whether they work or not. If Employee works the Holiday, the Employee will receive holiday pay (including supplemental benefits), plus the applicable premium wage for working the Holiday. If Employee works in excess of 8 hours on Holiday, then benefits will be paid for any hours in excess of 8 hours.

REGISTERED APPRENTICES

1 Year terms at the following wage rates.

1st	2nd	3rd	4th
\$ 19.17	\$ 23.00	\$ 26.84	\$ 30.67
+3.09*	+3.09*	+3.09*	+3.09*

*For all hours paid straight or premium

SUPPLEMENTAL BENEFITS per hour:

All terms \$ 16.81

11-279.2Floor

Electrician

03/01/2026

JOB DESCRIPTION Electrician

DISTRICT 11

ENTIRE COUNTIES

Orange, Putnam, Rockland

PARTIAL COUNTIES

Dutchess: Towns of Fishkill, East Fishkill, and Beacon.

WAGES

Per hour:

	07/01/2025
Electrician Wireman/Technician	\$ 51.50
	+ 10.00*

*For all hours paid straight or premium, not to be included in 3% calculation for supplemental benefits.

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (subject to overtime premiums):

- On jobs where employees are required to work from boatswain chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, or gas masks, they shall receive an additional \$2.00 per hour above the regular straight time rate.

- Journeyman Wireman working in Shafts, Tunnels or on Barges: \$5.00 above the Journeyman Wireman rate of pay

- Journeyman Wireman when performing welding or cable splicing: \$3.00 above the Journeyman Wireman rate of pay

- Journeyman Wireman required to have a NYS Asbestos Certificate: \$3.00 above the Journeyman Wireman rate of pay

- Journeyman Wireman required to have a CDL: \$3.00 above the Journeyman Wireman rate of pay.

SHIFT WORK

SHIFT DIFFERENTIAL: On Public Work in New York State when shift work is mandated either in the job specifications or by the contracting agency, the following rates apply when shift is worked:

Between 4:30pm & 12:30am	\$ 60.43
	+ 10.00*
Between 12:30am & 8:30am	\$ 67.69
	+ 10.00*

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman	07/01/2025
	\$ 30.69 plus
	3% of straight
	or premium wage

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid:

See (1) on HOLIDAY PAGE

Overtime:

See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE

When the holiday falls on a Saturday it is observed the Friday before. When the holiday falls on a Sunday it is observed on the Monday after.

REGISTERED APPRENTICES

WAGES:

(1)year terms at the following rates

07/01/2025	1st	2nd	3rd	4th	5th	6th
1st Shift	\$ 17.00	\$ 20.60	\$ 25.75	\$ 30.90	\$ 36.05	\$ 38.63
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*
2nd Shift	19.94	24.17	30.22	36.26	42.30	45.32
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*
3rd Shift	22.34	27.08	33.85	40.01	47.38	50.77
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*

*For all hours paid straight or premium, not to be included in 3% calculation for supplemental benefits.

SUPPLEMENTAL BENEFITS per hour:

07/01/2025

1st term	\$ 16.28 plus 3% of straight or premium wage
2nd term	\$ 17.78 plus 3% of straight or premium wage
3rd term	\$ 18.78 plus 3% of straight or premium wage
4th term	\$ 19.78 plus 3% of straight or premium wage
5th term	\$ 21.28 plus 3% of straight or premium wage
6th term	\$ 21.28 plus 3% of straight or premium wage

11-363/1

Elevator Constructor

03/01/2026

JOB DESCRIPTION Elevator Constructor

DISTRICT 1

ENTIRE COUNTIES

Columbia, Dutchess, Greene, Orange, Putnam, Sullivan, Ulster

PARTIAL COUNTIES

Delaware: Towns of Andes, Bovina, Colchester, Davenport, Delhi, Harpersfield, Hemdon, Kortright, Meredith, Middletown, Roxbury, Hancock & Stamford

Rockland: Only the Township of Stony Point.

Westchester: Only the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

WAGES

Per Hour	07/01/2025	01/01/2026
Mechanic	\$ 73.07	\$ 76.12
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

SUPPLEMENTAL BENEFITS

Per hour	07/01/2025	01/01/2026
Journeyworker/Helper	\$ 38.435*	\$ 38.985*

(*)Plus 6% of regular hourly if less than 5 years of service. Plus 8% of regular hourly rate if more than 5 years of service.

OVERTIME PAY

See (D, O) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 15, 16) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

Note: When a paid holiday falls on Saturday, it shall be observed on Friday. When a paid holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES

Wages per hour:

0-6 mo*	6-12 mo	2nd yr	3rd yr	4th yr
50 %	55 %	65 %	70 %	80 %

(*)Plus 6% of the hourly rate, no additional supplemental benefits.

Supplemental Benefits per hour worked:

Same as Journeyperson/Helper

1-138

Glazier

03/01/2026

JOB DESCRIPTION Glazier

DISTRICT 8

ENTIRE COUNTIES

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES

Per hour:	07/01/2025	11/01/2025
Glazier, Glass Tinting and Window Film	\$ 64.23	\$ 65.23
Scaffolding, including swing scaffold	69.23	70.23
*Mechanical Equipment	65.23	66.23
**Repair & Maintenance	31.71	32.44

*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 \$193,000.

SUPPLEMENTAL BENEFITS

Per hour:

Glazier, Glass Tinting and Window Film, Scaffolding and Mechanical Equipment	\$ 43.03	\$ 43.88
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Repair & Maintenance	25.12	25.37
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OVERTIME PAY

See (B, E, Q, V) on OVERTIME PAGE

For 'Repair & Maintenance' see (B, B2, I, S) on overtime page.

HOLIDAY

Paid: See (5, 6, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 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:

	07/01/2025	11/01/2025
1st term	\$ 22.79	\$ 23.29
2nd term	31.15	31.71
3rd term	41.53	42.23
4th term	50.90	51.70

Supplemental Benefits:

(Per hour)

	\$ 19.56	\$ 19.80
1st term		
2nd term	27.85	28.31
3rd term	33.49	34.09
4th term	36.73	37.41

8-1087 (DC9 NYC)

Insulator - Heat & Frost

03/01/2026

JOB DESCRIPTION Insulator - Heat & Frost

DISTRICT 8

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Rockland, Westchester

WAGES

Per hour: 07/01/2025

Insulator/Fire Stop Work* \$ 62.42

Discomfort & Additional Training** 65.48

* Applies on all exclusive Fire Stop Work (When contract is for Fire Stop work only). No apprentices on these contracts only.

**Applies to work requiring: garb or equipment worn against the body not customarily worn by insulators; psychological evaluation ;special training, including but not limited to "Yellow Badge" radiation training

Note: Additional \$10 a day for work 30 feet or more above floor or ground level.

SUPPLEMENTAL BENEFITS

Per hour:

Insulator/Fire Stop Journeyworker: \$ 38.90

Discomfort & Additional Training: \$ 40.94

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Note: Last working day preceding Christmas and New Years day, workers shall work no later than 12:00 noon and shall receive 8 hrs pay.

Overtime: See (2*, 4, 6, 16, 25) on HOLIDAY PAGE.

*Note: Labor Day triple time if worked.

REGISTERED APPRENTICES

(1) year terms:

Insulator Apprentices:

1st	2nd	3rd	4th
\$ 33.91	\$ 39.61	\$ 45.31	\$ 51.02

Discomfort & Additional Training Apprentices:

1st	2nd	3rd	4th
\$ 35.44	\$ 41.44	\$ 47.45	\$ 53.47

Supplemental Benefits paid per hour:

Insulator Apprentices:

1st term	\$ 19.81
2nd term	23.62
3rd term	27.44
4th term	31.26

Discomfort & Additional Training Apprentices:

1st term	\$ 20.82
2nd term	24.85
3rd term	28.88
4th term	32.91

8-91

Ironworker

03/01/2026

JOB DESCRIPTION Ironworker

DISTRICT 11

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster

WAGES

Per hour:

	07/01/2025	07/01/2026 Additional
Structural	\$ 52.88	\$ 2.00*
Reinforcing	52.88	2.00*
Ornamental	52.88	2.00*
Chain Link Fence	52.88	2.00*

(*) To be allocated at a later date.

NOTE: For Reinforcing classification ONLY, Ironworker 4-46Reinf rates apply in Rockland County's southern section (south of Convent Road and east of Blue Hills Road).

SHIFT WORK

On Government Mandated Irregular Workdays or Shift Work, the following wage will be paid:

1st Shift	\$ 52.88
2nd Shift	57.94
3rd Shift	63.04

Note- Any shift that works past 12:00 midnight shall receive the 3rd shift differential.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman	\$ 47.33
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OVERTIME PAY

See (B1, Q, V) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 16) on HOLIDAY PAGE

If a holiday falls on Saturday, it will be observed Friday. If a holiday falls on Sunday, it will be observed Monday.

REGISTERED APPRENTICES

Wages:

(1) year terms at the following wage:

	1st yr	2nd yr	3rd yr	4th yr
1st Shift	\$ 26.45	\$ 31.73	\$ 37.03	\$ 42.31
2nd Shift	31.75	36.98	42.23	47.47
3rd Shift	35.22	40.78	46.36	51.92

Supplemental Benefits per hour:

	07/01/2025
1st year	\$ 41.21
2nd year	42.43
3rd year	43.66
4th year	44.88

11-417

Laborer - Building

03/01/2026

JOB DESCRIPTION Laborer - Building

DISTRICT 11

ENTIRE COUNTIES

Orange, Sullivan, Ulster

PARTIAL COUNTIES

Delaware: Only the Townships of Andes, Bovina, Davenport, Delhi, Franklin, Hamden, Harpersfield, Kortright, Meredith, Middletown, Roxbury, and Stamford.

Greene: Only the Township of Catskill.

WAGES

Class 1: Custodial and janitorial work, general cleanup, and flag person.

Class 2: Concrete laborer, mason tending, hod carrier, signal person, pressure blasting and washing, chainsaw, demo saw, pavement breakers, jackhammers, demolition (that is customarily done by laborers), general labor.

Class 3: Jumping jack, excavation and back fill (when using hand or pneumatic tools), air track drills, grading, explosive handler and blaster, grade checker. When OSHA requires negative pressure respirator.

Class 4: Environmental work including but not limited to asbestos abatement, toxic and hazardous abatement, lead abatement work, mold remediation and biohazards.

WAGES: (per hour)	07/01/2025	06/01/2026 Additional
Class 1	\$ 45.40	\$ 2.79*
Class 2	46.20	2.82*
Class 3	48.25	2.89*
Class 4	51.45	3.00*

*To be allocated at a later date.

These rates will cover all work within five feet of the building foundation line.

SHIFT WORK

Shift Differential: On all Governmental mandated irregular or off shift work, an additional 25% of wage is required. The 25% shift differential will be paid on public works contract for shifts or irregular workdays outside the normal working hours for 2nd and 3rd shifts or irregular workday or when mandated or required by state, federal, county, local or other governmental agency contracts.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman	\$ 33.95
Shift	41.29

OVERTIME PAY

See (B, *E, E5, **Q) on OVERTIME PAGE

*For first 8 hours on Saturday

**When an employee is required to work on a holiday which falls on a Sunday the employee shall be paid three (3) times the hourly rate and one (1) hour benefits for every hour worked. When an employee is required to work on a holiday which falls on a Saturday the employee shall be paid two and a half (2.5) times the hourly rate and one hour benefits for every hour worked.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

Holidays that fall on Saturday shall be observed on Friday, when holidays fall on Sunday they shall be observed on Monday.

REGISTERED APPRENTICES

(1000) hour terms at the following wages.

	07/01/2025
1st term	\$ 29.50
2nd term	34.05
3rd term	38.60
4th term	43.15

Supplemental Benefits per hour:

All Terms Regular	\$ 30.35
All Terms Shift Rate	36.75

11-17.BA

Laborer - Heavy&Highway

03/01/2026

JOB DESCRIPTION Laborer - Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Orange, Sullivan, Ulster

PARTIAL COUNTIES

Delaware: Only the Townships of Andes, Bovina, Middletown, Roxbury, Franklin, Hamden, Stamford, Delhi, Kortright, Harpersfield, Meredith, and Davenport.

Greene: Only the Township of Catskill.

WAGES

CLASS 1: Flag person, gate person.

CLASS 2: General laborer, chuck tender, nipper, powder carrier, magazine tender, concrete men, vibrator men, mason tender, mortar men, traffic control, custodial work, temporary heat, pump men, pit men, dump men, asphalt men, joint setter, signalman, pipe men, riprap, dry stone layers, jack hammer, bush hammer, pavement breaker, men on mulching & seeding machines, all seeding & sod laying, landscape work, walk behind self-propelled power saws, grinder, walk behind rollers and tampers of all types, burner men, filling and wiring of baskets for gabion walls, chain saw operator, railroad track laborers, power buggy, plaster & acoustic pump, power brush cutter, retention liners, walk behind surface planer, chipping hammer, manhole, catch basin or inlet installing, retaining walls(drystack mortarless masonry), mortar mixer, laser men, guiderail/guardrail (except on bridges). *Micro paving and crack sealing.

CLASS 3: Asbestos, toxic, bioremediation and Phyto-remediation, lead or hazardous materials abatement when certification or license is required, Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power.

CLASS 4: Asphalt screed man, blaster, all laborers involved in pipejacking and boring operations not exceeding more than 10 feet into pipe, boring or drilled area.

WAGES: (per hour)	07/01/2025	06/01/2026
Class 1	\$ 45.30	\$ 47.05
Class 2	49.10	51.00
Class 3	54.00	56.05
Class 4	59.25	61.50

* When laborers are performing micro paving, crack sealing or slurry application when not part of asphalt prep operations laborers shall receive an additional \$2.50 per hour over rate.

SHIFT WORK

SHIFT DIFFERENTIAL: Night work and irregular shift require 20% increase on wages for all Government mandated night and irregular shift work.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman	\$ 34.03	\$ 35.28
Shift	39.60	41.37

OVERTIME PAY

See (B, E, P, *R, **S, ***T, X) on OVERTIME PAGE

*For Mon-Fri Holidays, Double Benefits to be paid for all hours worked.

**For Saturday Holidays or Friday recognized, Double Benefits for all hours worked.

***For Sunday Holidays or Monday recognized, Double Benefits for all hours worked.

HOLIDAY

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

To be eligible for a paid holiday, an employee must work at least two (2) days in the calendar week or payroll week in which the holiday falls.

REGISTERED APPRENTICES

(1000) hour terms at the following wages.

	07/01/2025
1st term	\$ 29.50
2nd term	34.05
3rd term	38.60
4th term	43.15

Supplemental Benefits per hour:

All Terms Regular	\$ 30.35
All Terms Shift Rate	35.27

11-17.1H/H

Laborer - Tunnel

03/01/2026

JOB DESCRIPTION Laborer - Tunnel

DISTRICT 11

ENTIRE COUNTIES

Columbia, Dutchess, Greene, Orange, Otsego, Putnam, Rockland, Sullivan, Ulster, Westchester

PARTIAL COUNTIES

Chenango: Townships of Columbus, Sherburne and New Berlin.

Delaware: Townships of Andes, Bovina, Middletown, Roxbury, Franklin, Hamden, Stamford, Delhi, Kortright, Harpersfield, Merideth and Davenport.

WAGES

Class 1: All support laborers/sandhogs working above the shaft or tunnel.

Class 2: All laborers/sandhogs working in the shaft or tunnel.

Class 4: Safety Miners

Class 5: Site work related to Shaft/Tunnel

WAGES: (per hour)

	07/01/2025	06/01/2026
		Additional
Class 1	\$ 58.55	\$ 2.75*
Class 2	60.70	2.75*
Class 4	67.10	2.75*
Class 5	51.40	2.75*

*To be allocated at a later date

Toxic and hazardous waste, lead abatement and asbestos abatement work will be paid an additional \$ 3.00 an hour.

SUPPLEMENTAL BENEFITS

Per hour:

Benefit 1	\$ 37.88
Benefit 2	54.01
Benefit 3	70.12

Benefit 1 applies to straight time hours, paid holidays not worked.

Benefit 2 applies to over 8 hours in a day (M-F) and Saturday hours worked.

Benefit 3 applies to Sunday and Holiday hours worked.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16, 25) on HOLIDAY PAGE

When a recognized Holidays falls on Saturday or Sunday, holidays falling on Saturday shall be recognized or observed on Friday and holidays falling on Sunday shall be recognized or observed on Monday. Employees ordered to work on the Saturday or Sunday of the holiday or on the recognized or the observed Friday or Monday for those holidays falling on Saturday or Sunday shall receive double time the established rate and benefits for the holiday.

REGISTERED APPRENTICES

FOR APPRENTICE RATES, refer to the appropriate Laborer Heavy & Highway wage rate contained in the wage schedule for the County and location where the work is to be performed.

11-17/60/235/754Tun

Lineman Electrician

03/01/2026

JOB DESCRIPTION Lineman Electrician

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES

A Lineman/Technician shall perform all overhead aerial work. A Lineman/Technician on the ground will install all electrical panels, connect all grounds, install and connect all electrical conductors, assembly of all electrical materials, conduit, pipe, or raceway; placing of fish wire; pulling of cables, wires or fiber optic cable through such raceways; splicing of conductors; dismantling of such structures, lines or equipment.

Crane Operators: Operation of any type of crane on line projects.

Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on line projects.

Digging Machine Operator: All other digging equipment and augering on line projects.

A Groundman/Truck Driver shall: Build and set concrete forms, handle steel mesh, set footer cages, transport concrete in a wheelbarrow, hand or machine concrete vibrator, finish concrete footers, mix mortar, grout pole bases, cover and maintain footers while curing in cold weather, operate jack hammer, operate hand pavement breaker, tamper, concrete and other motorized saws, as a drill helper, operate and maintain generators, water pumps, chainsaws, sand blasting, operate mulching and seeding machine, air tools, electric tools, gas tools, load and unload materials, hand shovel and/or broom, prepare and pour mastic and other fillers, assist digger operator/equipment operator in ground excavation and restoration, landscape work and painting. Only when assisting a lineman technician, a groundman/truck driver may assist in installing conduit, pipe, cables and equipment.

NOTE: Includes Teledata Work within ten (10) feet of High Voltage Transmission Lines. Also includes digging of holes for poles, anchors, footer, and foundations for electrical equipment.

-----Below rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of fiber optic cable where no other construction trades are or have been involved. Includes access matting for line work.

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A:				
Lineman, Technician	\$ 61.56	\$ 64.37	\$ 66.84	\$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47
Welder, Cable Splicer	61.56	64.37	66.84	69.47
Group B:				
Digging Mach. Operator	\$ 55.40	\$ 57.93	\$ 60.16	\$ 62.52
Group C:				
Tractor Trailer Driver	\$ 52.33	\$ 54.71	\$ 56.81	\$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58
Group D:				
Flagger	\$ 33.86	\$ 35.40	\$ 36.76	\$ 38.21

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work." Includes access matting for line work.

Group A:				
Lineman, Technician	\$ 61.56	\$ 64.37	\$ 66.84	\$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47
Cable Splicer	67.72	70.81	73.52	76.42
Certified Welder, Pipe Type Cable	\$ 64.64	\$ 67.59	\$ 70.18	\$ 72.94
Group B:				
Digging Mach. Operator	\$ 55.40	\$ 57.93	\$ 60.16	\$ 62.52
Group C:				
Tractor Trailer Driver	\$ 52.33	\$ 54.71	\$ 56.81	\$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58

Group D:				
Flagger	\$ 33.86	\$ 35.40	\$ 36.76	\$ 38.12

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all switching structures, maintenance projects, railroad catenary install/maintenance third rail installation, bonding of rails and pipe type cable and installation of fiber optic cable. Includes access matting for line work.

Group A:				
Lineman, Tech, Welder	\$ 62.94	\$ 65.81	\$ 68.34	\$ 71.03
Crane, Crawler Backhoe	62.94	65.81	68.34	71.03
Cable Splicer	69.23	72.39	75.17	78.13
Certified Welder, Pipe Type Cable	66.09	69.10	71.76	74.58

Group B:				
Digging Mach. Operator	\$ 56.65	\$ 59.23	\$ 61.51	\$ 63.93

Group C:				
Tractor Trailer Driver	\$ 53.50	\$ 55.94	\$ 58.09	\$ 60.38
Groundman, Truck Driver	50.35	52.65	54.67	56.82
Equipment Mechanic	50.35	52.65	54.67	56.82

Group D:				
Flagger	\$ 34.62	\$ 36.20	\$ 37.59	\$ 39.07

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all overhead and underground transmission line work & fiber optic cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction. Includes access matting for line work.

Group A:				
Lineman, Tech, Welder	\$ 64.18	\$ 67.10	\$ 69.68	\$ 72.43
Crane, Crawler Backhoe	64.18	67.10	69.68	72.43

Group B:				
Digging Mach. Operator	\$ 57.76	\$ 60.39	\$ 62.71	\$ 65.19

Group C:				
Tractor Trailer Driver	\$ 54.55	\$ 57.04	\$ 59.23	\$ 61.57
Groundman, Truck Driver	51.34	53.68	55.74	57.94
Equipment Mechanic	51.34	53.68	55.74	57.94

Group D:				
Flagger	\$ 35.30	\$ 36.91	\$ 38.32	\$ 39.84

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

SHIFT WORK

THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM to 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3RD SHIFT	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A	\$ 31.90*	\$ 32.90*	\$ 34.40*	\$ 35.90*
Group B	\$ 27.90*	\$ 28.90*	\$ 30.40*	\$ 31.90*
Group C	\$ 27.70*	\$ 28.50*	\$ 29.70*	\$ 30.90*
Group D	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

*Plus 7 % of the hourly wage paid. The 7% is based on straight time or premium time.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE. NOTE: Double time for all emergency work designated by the Dept. of Jurisdiction.
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid See (5, 6, 8, 15, 25) on HOLIDAY PAGE
Overtime See (5, 6, 8, 15, 25) on HOLIDAY PAGE

NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyworker's Lineman wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
All terms:	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

*Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

6-1249a

Lineman Electrician - Teledata

03/01/2026

JOB DESCRIPTION Lineman Electrician - Teledata

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

NOTE: Applies to all public work and covered private projects, including those receiving ConnectAll funding subject to LL 224-E, solicited prior to July 1, 2025. For all projects, excluding dial-up internet access service, solicited on or after July 1, 2025, please see BROADBAND

Per hour: 07/01/2025

Cable Splicer	\$ 40.81
Installer, Repairman	\$ 38.73
Teledata Lineman	\$ 38.73
Tech., Equip. Operator	\$ 38.73
Groundman/Flagger	\$ 20.53

For outside work, stopping at first point of attachment (demarcation).

NOTE: EXCLUDES Teledata work within ten (10) feet of High Voltage (600 volts and over) transmission lines. For this work, please see LINEMAN.

SHIFT WORK

THE FOLLOWING RATES APPLY WHEN THE CONTRACTING AGENCY MANDATES MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION ARE WORKED. WHEN TWO (2) OR THREE (3) SHIFTS ARE WORKED THE FOLLOWING RATES APPLY:

1ST SHIFT	REGULAR RATE
2ND SHIFT	REGULAR RATE PLUS 10%
3RD SHIFT	REGULAR RATE PLUS 15%

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 5.77
	*plus 3% of the hour wage paid

*The 3% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

Lineman Electrician - Traffic Signal, Lighting

03/01/2026

JOB DESCRIPTION Lineman Electrician - Traffic Signal, Lighting

DISTRICT 6

ENTIRE COUNTIES

Columbia, Dutchess, Orange, Putnam, Rockland, Ulster

WAGES

Lineman/Technician shall perform all overhead aerial work. A Lineman/Technician on the ground will install all electrical panels, connect all grounds, install and connect all electrical conductors which includes, but is not limited to road loop wires; conduit and plastic or other type pipes that carry conductors, flex cables and connectors, and to oversee the encasement or burial of such conduits or pipes.

Crane Operators: Operation of any type of crane on Traffic Signal/Lighting projects.

Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on Traffic Signal/Lighting projects.

Digging Machine Operator: All other digging equipment and augering on Traffic Signal/Lighting projects.

A Groundman/Truck Driver shall: Build and set concrete forms, handle steel mesh, set footer cages, transport concrete in a wheelbarrow, hand or machine concrete vibrator, finish concrete footers, mix mortar, grout pole bases, cover and maintain footers while curing in cold weather, operate jack hammer, operate hand pavement breaker, tamper, concrete and other motorized saws, as a drill helper, operate and maintain generators, water pumps, chainsaws, sand blasting, operate mulching and seeding machine, air tools, electric tools, gas tools, load and unload materials, hand shovel and/or broom, prepare and pour mastic and other fillers, assist digger operator/equipment operator in ground excavation and restoration, landscape work and painting. Only when assisting a lineman technician, a groundman/truck driver may assist in installing conduit, pipe, cables and equipment.

A flagger's duties shall consist of traffic control only.

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A:				
Lineman, Technician	\$ 54.19	\$ 56.70	\$ 58.85	\$ 61.15
Crane, Crawler Backhoe	54.19	56.70	58.85	61.15
Certified Welder	56.90	59.54	61.79	64.21
Group B:				
Digging Machine	\$ 48.77	\$ 51.03	\$ 52.97	\$ 55.04
Group C:				
Tractor Trailer Driver	\$ 46.06	\$ 48.20	\$ 50.02	\$ 51.98
Groundman, Truck Driver	43.35	45.36	47.08	48.92
Equipment Mechanic	43.35	45.36	47.08	48.92
Group D:				
Flagger	\$ 32.51	\$ 34.02	\$ 35.31	\$ 36.69

Above rates are applicable for installation, testing, operation, maintenance and repair on all Traffic Control (Signal) and Illumination (Lighting) projects, Traffic Monitoring Systems, and Road Weather Information Systems. Includes digging of holes for poles, anchors, footer foundations for electrical equipment; assembly of all electrical materials or raceway; placing of fish wire; pulling of cables, wires or fiber optic cable through such raceways; splicing of conductors; dismantling of such structures, lines or equipment.

SHIFT WORK

THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM REGULAR RATE PLUS 31.4%

SUPPLEMENTAL BENEFITS

Per hour worked:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A	\$ 31.90*	\$ 32.90*	\$ 34.40*	\$ 35.90*

Group B	\$ 27.90*	\$ 28.90*	\$ 30.40*	\$ 31.90*
Group C	\$ 27.70*	\$ 28.50*	\$ 29.70*	\$ 30.90*
Group D	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*

* Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE. NOTE: Double time for all emergency work designated by the Dept. of Jurisdiction.

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid: See (5, 6, 8, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 25) on HOLIDAY PAGE

NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyworker's Lineman wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

07/01/2025	05/04/2026	05/03/2027	05/01/2028
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All terms:	\$ 27.65*	\$ 28.40*	\$ 29.53*	\$ 30.66*
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* Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

6-1249aReg8LT

Lineman Electrician - Tree Trimmer

03/01/2026

JOB DESCRIPTION Lineman Electrician - Tree Trimmer

DISTRICT 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES

Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also includes stump removal near underground energized electrical lines including telephone and CATV lines.

Per hour:	07/01/2025	01/01/2026	01/04/2026	01/03/2027
Tree Trimmer	\$ 33.18	\$ 33.18	\$ 34.67	\$ 36.23
Equipment Operator	29.35	29.35	30.67	32.05
Equipment Mechanic	29.35	29.35	30.67	32.05
Truck Driver	23.85	23.85	24.93	26.05
Groundman	19.64	19.64	20.53	21.45
Flagger	15.50	16.00	16.20	16.93

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 10.98*	\$ 10.98*	\$ 11.23*	\$ 11.48*
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* Plus 4.5% of the hourly wage paid. The 4.5% is based on straight time rate or premium rate.

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE

WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY

Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

NOTE: All paid holidays falling on a Saturday shall be observed on the preceding Friday. All paid holidays falling on a Sunday shall be observed on the following Monday.

6-1249TT

Mason - Building	03/01/2026
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JOB DESCRIPTION Mason - Building

DISTRICT 11

ENTIRE COUNTIES

Dutchess, Sullivan, Ulster

PARTIAL COUNTIES

Orange: Entire county except the Township of Tuxedo.

WAGES

Per hour:

07/01/2025

Bricklayer	\$ 47.96
Cement Mason	47.96
Plasterer/Stone Mason	47.96
Pointer/Caulker	47.96

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

SHIFT WORK

SHIFT WORK: When shift work or an irregular workday is mandated or required by state, federal, county, local or other governmental agency contracts, the following premiums apply:

Irregular workday requires 15% premium

Second shift an additional 15% of wage plus benefits to be paid

Third shift an additional 25% of wage plus benefits to be paid

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 38.61

OVERTIME PAY

Cement Mason See (B, E, Q, W) on OVERTIME PAGE.

All Others See (B, E, Q) on OVERTIME PAGE.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

Whenever any of the above holidays fall on Sunday, they will be observed on Monday. Whenever any of the above holidays fall on Saturday, they will be observed on Friday.

REGISTERED APPRENTICES

Wages per hour:

750 hour terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour

750 hour terms at the following percentage of journeyman supplements

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

11-5du-b

Mason - Building	03/01/2026
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JOB DESCRIPTION Mason - Building

DISTRICT 9

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Sullivan, Ulster

WAGES

Per hour:

07/01/2025

12/01/2025

06/01/2026

Additional

Tile, Marble,& Terrazzo			
Mechanic/Setter	\$ 58.52	\$ 58.91	\$ 1.12

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyworker:	\$ 26.16*	\$ 26.66*
	+6.16	+6.17

* This portion of benefits subject to same premium rate as shown for overtime wages.

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

Double time rate applies after 10 hours

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wage per hour:

(Counties of Orange & Putnam)

750 hour terms at the following wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750	6751-7500
07/01/2025									
\$22.34	\$27.46	\$34.56	\$39.66	\$43.35	\$46.96	\$50.69	\$55.79	\$58.36	\$65.03
12/01/2025									
\$22.70	\$27.86	\$35.07	\$40.22	\$43.96	\$47.61	\$51.39	\$56.55	\$59.16	\$65.54

Supplemental Benefits per hour:

(Counties of Orange & Putnam)

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750	6751-7500
07/01/2025									
\$13.00*	\$13.00*	\$16.11*	\$16.11*	\$17.11*	\$18.61*	\$19.61*	\$19.61*	\$19.61*	\$29.61*
+ 0.76	+ 0.81	+ 0.92	+ 0.97	+ 1.44	+ 1.49	+ 1.92	+ 1.97	+ 4.57	+ 8.53
12/01/2025									
\$13.00*	\$13.00*	\$16.11*	\$16.11*	\$17.11*	\$18.61*	\$19.61*	\$19.61*	\$19.61*	\$30.11*
+ 0.76	+ 0.82	+ 0.92	+ 0.97	+1.44	+1.50	+1.93	+1.98	+4.58	+8.54

Wages per hour:

(Counties of Dutchess, Sullivan, Ulster)

750 hour terms at the following wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750	6751-7500
07/01/2025									
\$21.31	\$25.76	\$27.62	\$32.09	\$35.13	\$39.09	\$42.67	\$46.14	\$47.59	\$51.76
12/01/2025									
\$22.31	\$26.76	\$28.62	\$33.09	\$36.13	\$39.59	\$42.67	\$47.14	\$48.59	\$51.31

Supplemental Benefits per hour:

(Counties of Dutchess, Sullivan, Ulster)

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750	6751-7500
07/01/2025									
\$14.00*	\$14.00*	\$16.61*	\$16.61*	\$17.61*	\$18.11*	\$18.61*	\$19.61*	\$19.61*	\$24.36*
+ 0.76	+ 0.81	+ 0.85	+ 0.90	+ 1.36	+ 1.41	+ 1.83	+ 1.88	+ 4.94	+ 5.03
12/01/2025									
\$13.00*	\$13.00*	\$15.61*	\$15.61*	\$16.61*	\$17.61*	\$18.61*	\$18.61*	\$18.61*	\$31.36*
+ 0.76	+ 0.81	+ 0.85	+ 0.90	+ 1.36	+ 1.41	+ 1.83	+ 1.88	+ 4.94	+ 7.50

* This portion of benefits subject to same premium rate as shown for overtime wages.

9-7/52B

Mason - Building	03/01/2026
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JOB DESCRIPTION Mason - Building

DISTRICT 9

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Sullivan, Ulster

WAGES

Per hour:	07/01/2025	12/01/2025	06/01/2026
Building			Additional
Tile, Marble, & Terrazzo Finisher	\$ 48.18	\$ 48.39	\$ 0.95*

*To be allocated at a later date.

SUPPLEMENTAL BENEFITS

Journeyworker:

Per Hour	\$ 22.96*	\$ 23.51*
	+ 6.02	+ 6.03

*This portion of benefits subject to same premium rate as shown for overtime wages

OVERTIME PAY

See (A, *E, Q) on OVERTIME PAGE

Double time rate applies after 10 hours on Saturdays.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25) on HOLIDAY PAGE

9-7/88B-tf

Mason - Building	03/01/2026
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JOB DESCRIPTION Mason - Building

DISTRICT 11

ENTIRE COUNTIES

Putnam, Rockland, Westchester

PARTIAL COUNTIES

Orange: Only the Township of Tuxedo.

WAGES

Per hour:	07/01/2025
Bricklayer	\$ 48.89
Cement Mason	48.89
Plasterer/Stone Mason	48.89
Pointer/Caulker	48.89

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

SHIFT WORK

SHIFT WORK: When shift work or an irregular workday is mandated or required by state, federal, county, local or other governmental agency contracts, the following premiums apply:

Irregular workday requires 15% premium

Second shift an additional 15% of wage plus benefits to be paid

Third shift an additional 25% of wage plus benefits to be paid

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 39.20

OVERTIME PAY

OVERTIME:

Cement Mason See (B, E, Q, W) on OVERTIME PAGE.

All Others See (B, E, Q) on OVERTIME PAGE.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

Whenever any of the above holidays fall on Sunday, they will be observed on Monday. Whenever any of the above holidays fall on Saturday, they will be observed on Friday.

REGISTERED APPRENTICES

Wages per hour:

750 hour terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour

750 hour terms at the following percentage of journeyman supplements

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

11-5wp-b

Mason - Building

03/01/2026

JOB DESCRIPTION Mason - Building

DISTRICT 9

ENTIRE COUNTIES

Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Sullivan, Ulster, Westchester

WAGES

Per Hour:

	07/01/2025	07/07/2025	01/05/2026
Marble Cutters & Setters	\$ 64.21	\$ 64.66	\$ 65.21

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyworker	\$ 40.51	\$ 40.82	\$ 41.02
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OVERTIME PAY

See (B, E, Q, V) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wage Per Hour:

750 hour terms at the following wage

1st	2nd	3rd	4th	5th	6th	7th	8th
0-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750	6751-7500	7500+
07/01/2025 \$27.24	\$40.84	\$44.25	\$47.63	\$51.05	\$54.58	\$60.99	\$64.21
07/07/2025 \$27.60	\$41.50	\$44.98	\$48.45	\$51.94	\$54.81	\$64.66	\$64.66
01/05/2026 \$27.39	\$41.07	\$44.49	\$47.91	\$51.33	\$53.73	\$65.21	\$65.21

Supplemental Benefits per hour:

1st	2nd	3rd	4th	5th	6th	7th	8th
07/01/2025 \$26.88	\$30.14	\$30.95	\$31.78	\$32.59	\$38.07	\$39.71	\$40.51
07/07/2025							

\$26.95	\$30.02	\$30.78	\$31.55	\$32.32	\$38.53	\$40.82	\$40.82
01/05/2026							
\$28.60	\$31.67	\$32.43	\$33.20	\$33.97	\$40.73	\$41.02	\$41.02

9-7/4

Mason - Heavy&Highway	03/01/2026
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JOB DESCRIPTION Mason - Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Dutchess, Sullivan, Ulster

PARTIAL COUNTIES

Orange: Entire county except the Township of Tuxedo.

WAGES

Per hour:

07/01/2025

Bricklayer	\$ 48.46
Cement Mason	48.46
Marble/Stone Mason	48.46
Plasterer	48.46
Pointer/Caulker	48.46

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

SHIFT WORK

When shift work or an irregular workday is mandated or required by state, federal, county, local or other governmental contracts, the following rates apply:

Irregular workday requires 15% premium

Second shift an additional 15% of wage plus benefits to be paid

Third shift an additional 25% of wage plus benefits to be paid

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 38.61

OVERTIME PAY

Cement Mason See (B, E, Q, W)

All Others See (B, E, Q)

HOLIDAY

Paid: See (5, 6, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

- Whenever any of the above holidays fall on Sunday, they will be observed on Monday. Whenever any of the above holidays fall on Saturday, they will be observed on Friday.

- Supplemental Benefits are not paid for paid Holiday

- If Holiday is worked, Supplemental Benefits are paid for hours worked.

- Whenever an Employee works within three (3) calendar days before a holiday, the Employee shall be paid for the Holiday.

REGISTERED APPRENTICES

Wages per hour:

750 hour terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour

750 hour terms at the following percentage of journeyman supplements

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

11-5du-H/H

Mason - Heavy&Highway	03/01/2026
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JOB DESCRIPTION Mason - Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Putnam, Rockland, Westchester

PARTIAL COUNTIES

Orange: Only the Township of Tuxedo.

WAGES

Per hour:

07/01/2025

Bricklayer	\$ 49.39
Cement Mason	49.39
Marble/Stone Mason	49.39
Plasterer	49.39
Pointer/Caulker	49.39

Additional \$1.00 per hour for power saw work

Additional \$0.50 per hour for swing scaffold or staging work

SHIFT WORK

When shift work or an irregular workday is mandated or required by state, federal, county, local or other governmental contracts, the following rates apply:

Irregular workday requires 15% premium

Second shift an additional 15% of wage plus benefits to be paid

Third shift an additional 25% of wage plus benefits to be paid

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman	\$ 39.20
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OVERTIME PAY

Cement Mason See (B, E, Q, W)

All Others See (B, E, Q,)

HOLIDAY

Paid: See (5, 6, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE

- Whenever any of the above holidays fall on Sunday, they will be observed on Monday. Whenever any of the above holidays fall on Saturday, they will be observed on Friday.

- Supplemental Benefits are not paid for paid Holiday

- If Holiday is worked, Supplemental Benefits are paid for hours worked.

- Whenever an Employee works within three (3) calendar days before a holiday, the Employee shall be paid for the Holiday.

REGISTERED APPRENTICES

Wages per hour:

750 hour terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

Supplemental Benefits per hour

750 hour terms at the following percentage of journeyman supplements

1st	2nd	3rd	4th	5th	6th	7th	8th
50%	55%	60%	65%	70%	75%	80%	85%

11-5WP-H/H

Operating Engineer - Building / Heavy&Highway

03/01/2026

JOB DESCRIPTION Operating Engineer - Building / Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Delaware, Orange, Rockland, Sullivan, Ulster

WAGES

CLASS A5: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes, with 140ft boom and over.

CLASS A4: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes, with 100ft to 139ft boom.

CLASS A3: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes with a boom under 100ft.

CLASS A2: Cranes, Derricks and Pile Drivers less than 100 tons with 140ft boom and over.

CLASS A1: Cranes, Derricks and Pile Drivers less than 100 tons with a 100ft to 139ft boom.

CLASS A: Cranes, Derricks and Pile Drivers less than 100 tons with a boom under 100ft.; Autograde Combination Subgrader, Base Material Spreader and Base Trimmer (CMI and Similar Types); Autograde Pavement profiler (CMI and Similar Types); Autograde Pavement Profiler and Recycle type (CMI and Similar Type); Autograde Placer-Trimmed-Spreader Comb. (CMI & Similar types); Autograde Slipform Paver (CMI & Similar Types); Central Power Plants (all types); Chief of Party; Concrete Paving Machines; Drill (Bauer, AMI and Similar Types); Drillmaster, Quarrymaster (Down the Hole Drill), Rotary Drill, Self-Propelled Hydraulic Drill, Self-Powered Drill; Draglines; Elevator Graders; Excavator; Front End Loaders (5 yds. and over); Gradall's; Grader-Rago; Helicopters (Co-Pilot); Helicopters (Communications Engineer); Juntann Pile Driver; Locomotive (Large); Mucking Machines; Pavement & Concrete Breaker, i.e., Superhammer & Hoe Ram; Roadway Surface Grinder; Prentice Truck; Scooper (Loader and Shovel); Shovels; Tree Chopper with Boom; Trench Machines (Cable Plow); Tunnel Boring Machine; Vacuum Truck

CLASS B: "A" Frame; Backhoe (Combination); Boom Attachment on Loaders (Rate based on size of Bucket) not applicable to Pipehook; Boring and Drilling Machines; Brush Chopper, Shredder and Tree Shredder, Tree Shearer; Bulldozer (Fine Grade); Cableways; Carryalls; Concrete Pump; Concrete Pumping System, Pump Concrete and Similar Types; Conveyors (125 ft. and over); Drill Doctor (duties incl. Dust Collector Maintenance); Front End Loaders (2 yds. but less than 5 yds.); Graders (Finish); Groove Cutting Machine (Ride on Type); Heater Planer; Hoists (all type Hoists, shall also include Steam, Gas, Diesel, Electric, Air Hydraulic, Single and Double Drum, Concrete, Brick Shaft Caisson, Snorkel Roof, and/or any other Similar Type Hoisting Machines, portable or stationary, except Chicago Boom Type); Long Boom Rate to be applied if Hoist is "Outside Material Tower Hoist"; Hydraulic Cranes-10 tons and under; Hydraulic Dredge; Hydro-Axe; Hydro Blaster; Jacks-Screw Air Hydraulic Power Operated Unit or Console Type (not hand Jack or Pile Load Test Type); Log Skidder; Pans; Pavers (all) concrete; Plate and Frame Filter Press; Pumpcrete Machines, Squeezecrete & Concrete Pumping (regardless of size); Scrapers; Side Booms; "Straddle" Carrier-Ross and similar types; Winch Trucks (Hoisting); Whip Hammer

CLASS C: Asphalt Curbing Machine; Asphalt Plant Engineer; Asphalt Spreader; Autograde Tube Finisher and Texturing Machine (CMI & Similar types); Autograde Curecrete Machine (CMI & Similar Types); Autograde Curb Trimmer & Sidewalk, Shoulder, Slipform (CMI & Similar Types); Bar Bending Machines (Power); Barrier Moving Machine-Zipper; Batchers, Batching Plant and Crusher on Site; Belt Conveyor Systems; Boom Type Skimmer Machines; Bridge Deck Finisher; Bulldozer (except fine grade); Car Dumpers (Railroad); Compressor and Blower Type Units (used independently or mounted on dual purpose Trucks, on Job Site or in conjunction with jobsite, in Loading and Unloading of Concrete, Cement, Fly Ash, Instantcrete, or Similar Type Materials); Compressors (2 or 3 in Battery); Concrete Finishing Machines; Concrete cleaning decontamination machine operator; Concrete Saws and Cutters (Ride-on type); Concrete Spreaders (Hetzl, Rexomatic and Similar Types); Concrete Vibrators; Conveyors (under 125 feet); Crushing Machines; Directional Boring Machines; Ditching Machine-small (Ditch-witch, Vermeer, or Similar type); Dope Pots (Mechanical with or without pump); Dumpsters; Elevator; Fireman; Fork Lifts (Economobile, Lull and Similar Types of Equipment); Front End Loaders (1 yd. and over but under 2 yds.); Generators (2 or 3 in Battery); Giraffe Grinders; Grout Pump; Gunnite Machines (excluding nozzle); Hammer Vibrator (in conjunction with Generator); Heavy Equipment Robotics Operator Technician; Hoists-Roof, Tugger, Aerial Platform Hoist & House Cars; Hoppers; Hopper Doors (power operated); Hydro Blaster; Hydraulic Jacking Trailer; Ladders (motorized); Laddervator; Locomotive-dinky type; Maintenance -Utility Man; Master Environmental Maintenance Technician; Mechanics; Mixers (Excepting Paving Mixers); Motor Patrols; Pavement Breakers (small self-propelled ride on type-also maintains compressor hydraulic unit); Pavement Breaker-truck mounted; Pipe Bending Machine (Power); Pitch Pump; Plaster Pump (regardless of size); Post Hole Digger (Post Pounder & Auger); Pot Hole Killer Trucks or equivalent; Rod Bending Machines (Power); Roller-Black Top; Scales (Power); Seaman pulverizing mixer; Shoulder widener; Silos; Skidsteer (all attachments); Skimmer Machines (boom-type); Steel Cutting Machine (service & maintain); Tam Rock Drill; Tractors; Transfer Machine; Captain (Power Boats); Tug Master (powerboats); Ultra High Pressure Waterjet Cutting Tool System operator/maintenance technician; Vacuum Blasting Machine; Vibrating Plants (used in conjunction with unloading); Welder and Repair Mechanics

CLASS D: Brooms and Sweepers; Chippers; Compressor (single); Concrete Spreaders (small type); Conveyor Loaders (not including Elevator Graders); Engines-large diesel (1620 HP) and Staging Pump; Farm Tractors; Fertilizing Equipment (Operation & Maintenance of); Fine Grade Machine (small type); Form Line Graders (small type); Front End Loader (under 1 yard); Generator (single); Grease, Gas, Fuel and Oil supply trucks; Heaters (Nelson or other type incl. Propane, Natural Gas or Flow type Units); Lights, Portable Generating Light Plants; Mixers (Concrete, small); Mulching Equipment (Operation and Maintenance of); Pumps (2 or less than 4 inch suction); Pumps (4 inch suction and over incl. submersible pumps); Pumps (Diesel Engine and Hydraulic-immaterial of power); Road Finishing Machines (small type); Rollers-grade, fill or stone base; Seeding Equip. (Operation and Maintenance of); Sprinkler & Water Pump Trucks (used on jobsite or in conjunction with jobsite); Steam Jennies and Boilers-irrespective of use; Stone Spreader; Tamping Machines, Vibrating Ride-on; Temporary Heating Plant (Nelson or other type, incl. Propane, Natural Gas or Flow Type Units); Water & Sprinkler Trucks (used on or in conjunction with jobsite); Welding Machines (Gas, Diesel, and/or Electric Converters of any type, single, two, or three in a battery); Wellpoint Systems (including installation by Bull Gang and Maintenance of)

CLASS E: Assistant Engineer/Oiler; Drillers Helper; Maintenance Apprentice (Deck Hand); Maintenance Apprentice (Oiler); Mechanics' Helper; Tire Repair and Maintenance; Transit/Instrument Man

WAGES:(per hour)

07/01/2025

Class A5	\$ 68.22 plus 5.00*
Class A4	67.22 plus 5.00*
Class A3	66.22 plus 5.00*
Class A2	63.72 plus 5.00*
Class A1	62.72 plus 5.00*
Class A	61.72 plus 5.00*

Class B	60.13 plus 5.00*
Class C	58.22 plus 5.00*
Class D	56.59 plus 5.00*
Class E	52.88 plus 5.00*
Safety Engineer	62.46 plus 5.00*

Helicopter:
Pilot/Engineer 63.54 plus 5.00*

Co Pilot 61.72 plus 5.00*

Communications Engineer 61.72 plus 5.00*

Surveying:
Chief of Party 61.72 plus 5.00*

Transit/Instrument Man 52.88 plus 5.00*

Rod/Chainman 52.30 plus 5.00*

Additional \$0.75 for Survey work Tunnel under compressed air.
Additional \$0.50 for Hydrographic work.

*The \$5.00 is added to the Class Base Wage for all hours worked. Additionally, the \$5.00 is subject to the V-Code listed on the OVERTIME CODE Sheet.

**Outside Material Hoist (Class B) receives additional \$ 1.00 per hour on 110 feet up to 199 feet total height, \$ 2.00 per hour on 200 feet and over total height.

***To be allocated at a later date

- On HAZARDOUS WASTE REMOVAL or ASBESTOS REMOVAL work, or any state or federally DESIGNATED HAZARDOUS WASTE SITE:

For projects bid on or before April 1, 2020...Where the Operating Engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin and eye protection, the Operating Engineer shall receive the hourly wage plus an additional twenty percent (20%) of that wage for the entire shift.

For projects bid after April 1, 2020...On hazardous waste removal work of any kind, including state or federally designated site where the operating engineer is required to wear level A, B, or C personal protection the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour. An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$ 1.00 per hour. This shall also apply to sites where the level D personal protection is required.

SHIFT WORK

- SHIFT WORK: On all Government mandated irregular or off shift work, an additional 15% on straight time hours.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 35.25*

*15% premium is also required on shift work benefits

OVERTIME PAY

See (B, E, Q, *V, X) on OVERTIME PAGE

*15% premium is also required on shift work benefits

HOLIDAY

Paid: See (5, 6, 10, 13, 15) on HOLIDAY PAGE

Overtime: See (5, 6, 10, 13, 15) on HOLIDAY PAGE

Holidays falling on Sunday will be celebrated on Monday.

REGISTERED APPRENTICES

(1) year terms at the following percentage of journeyman's wage:

1st year	60% of Class base wage plus \$5.00*
2nd year	70% of Class base wage plus \$5.00*
3rd year	80% of Class base wage plus \$5.00*
4th year	90% of Class base wage plus \$5.00*

*The \$5.00 is added to the Class Base Wage for all hours worked. Additionally, the \$5.00 is subject to the V-Code listed on the OVERTIME CODE Sheet.

Supplemental Benefits per hour:

Apprentices \$ 35.25

11-825

Operating Engineer - Marine Dredging **03/01/2026**

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 wage rates do not apply to Operating Engineers on land-based construction projects. For those projects, refer to the Operating Engineers Heavy/Highway rates. The wage rates listed below apply specifically to all equipment and operators involved in marine dredging work within navigable waters located in the counties listed above.

Per Hour: 07/01/2025 10/01/2025

CLASS A1 \$ 47.07 \$ 48.48
Deck Captain, Leverman,
Mechanical Dredge Operator,
Licensed Tug Operator with MOTV

CLASS A2 41.94 43.20
Crane Operator (360 swing)

CLASS B To conform to Operating Engineer
Dozer, Front Loader Prevailing Wage in locality where work
Operator (On Land) is being performed including benefits.

CLASS B1 40.71 41.93
Derrick Operator (180 swing),
Spider/Spill Barge Operator I/II,
Fill Placer, Engineer, Chief Mate,
Electrician, Chief Welder, Maintenance Engineer,
Licensed Boat, Crew Boat Operator

CLASS B2 38.31 39.46
Certified Welder

CLASS C1 37.26 38.38
Drag Barge Operator,
Steward, Mate,
Assistant Fill Placer

CLASS C2 36.07 37.15
Boat Operator

CLASS D 29.96 30.86
Shoreman, Deckhand, Oiler,
Rodman, Scowman, Cook,
Messman, Porter/Janitor

SUPPLEMENTAL BENEFITS

Per Hour:

THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

All Classes: 7% of Hourly Straight time wage + \$12.00.

Additional \$0.63 per hour for Overtime hours

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

4-25a-MarDredge

Operating Engineer - Steel Erectors

03/01/2026

JOB DESCRIPTION Operating Engineer - Steel Erectors

DISTRICT 11

ENTIRE COUNTIES

Delaware, Orange, Rockland, Sullivan, Ulster

WAGES

CLASS A3: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes, with a 140 ft. boom and over.

CLASS A2: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes, with up to a 139 ft. boom and under.

CLASS A1: Cranes, Derricks and Pile Drivers less than 100 tons with a 140 ft. boom and over.

CLASS A: Cranes, Derricks and Pile Drivers less than 100 tons with up to a 139 ft. boom and under.

CLASS B: "A" Frame; Cherry Pickers(10 tons and under); Hoists (all type Hoists, shall also include Steam, Gas, Diesel, Electric, Air Hydraulic, Single and Double Drum, Concrete, Brick Shaft Caisson, Snorkel Roof, and/or any other Similar Type Hoisting Machines, portable or stationary, except Chicago Boom Type); Jacks-Screw Air Hydraulic Power Operated Unit or Console Type (not hand Jack or Pile Load Test Type); Side Booms; Straddle Carrier

CLASS C: Aerial Platform used as Hoist; Compressors (2 or 3 in Battery); Concrete cleaning/ decontamination machine operator; Directional Boring Machines; Elevator or House Cars; Conveyers and Tugger Hoists; Fireman; Fork Lifts; Generators (2 or 3 in Battery); Heavy Equipment Robotics Operator/Technician; Master Environmental Maintenance Technician; Maintenance -Utility Man; Rod Bending Machines (Power); Captain(powerboat); Tug Master; Ultra High Pressure Waterjet Cutting Tool System; Vacuum Blasting Machine; Welding Machines(gas or electric,2 or 3 in battery, including diesels); Transfer Machine; Apprentice Engineer/Oiler with either one compressor or one welding machine when used for decontamination and remediation

CLASS D: Compressor (single); Welding Machines (Gas, Diesel, and/or Electric Converters of any type); Welding System Multiple (Rectifier Transformer type)

CLASS E: Assistant Engineer/Oiler; Maintenance Apprentice (Deck Hand);Drillers Helper; Maintenance Apprentice (Oiler); Mechanics' Helper; Transit/Instrument Man

WAGES:(per hour)

07/01/2025

Class A3	\$ 70.24 plus 5.00*
Class A2	68.58 plus 5.00*
Class A1	65.74 plus 5.00*
Class A	64.08 plus 5.00*
Class B	61.29 plus 5.00*
Class C	58.63 plus 5.00*
Class D	57.10 plus 5.00*
Class E	53.34 plus 5.00*
Vacuum Truck	62.05 plus 5.00*
Safety Engineer	62.91 plus 5.00*

Helicopter:	
Pilot/Engineer	65.74 plus 5.00*
Co Pilot	65.35 plus 5.00*
Communications Engineer	65.35 plus 5.00*

Surveying:	
Chief of Party	62.05 plus 5.00*
Transit/Instrument man	53.34 plus 5.00*
Rod/Chainman	52.30 plus 5.00*

Additional \$0.75 for Survey work Tunnels under compressed air.
Additional \$0.50 for Hydrographic work.

*The \$5.00 is added to the Class Base Wage for all hours worked. Additionally, the \$5.00 is subject to the V-Code listed on the OVERTIME CODE Sheet.

**To be allocated at a later date

- On HAZARDOUS WASTE REMOVAL or ASBESTOS REMOVAL work, or any state or federally DESIGNATED HAZARDOUS WASTE SITE:

For projects bid on or before April 1, 2020...Where the Operating Engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin and eye protection, the Operating Engineer shall receive the hourly wage plus an additional twenty percent (20%) of that wage for the entire shift.

For projects bid after April 1, 2020...On hazardous waste removal work of any kind, including state or federally designated site where the operating engineer is required to wear level A, B, or C personal protection the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour. An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$ 1.00 per hour. This shall also apply to sites where the level D personal protection is required.

SHIFT WORK

- SHIFT WORK: On all Government mandated irregular or off shift work, an additional 15% on straight time hours.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 35.25*

*15% premium is also required on shift work benefits

OVERTIME PAY

See (B, E, Q, *V, X) on OVERTIME PAGE

*15% premium is also required on shift work benefits

HOLIDAY

Paid: See (5, 6, 10, 13, 15) on HOLIDAY PAGE

Overtime: See (5, 6, 10, 13, 15) on HOLIDAY PAGE

Holidays falling on Sunday will be celebrated on Monday.

REGISTERED APPRENTICES

(1) year terms at the following percentage of journeyman's wage.

1st year	60% of Class base wage plus \$5.00*
2nd year	70% of Class base wage plus \$5.00*
3rd year	80% of Class base wage plus \$5.00*
4th year	90% of Class base wage plus \$5.00*

*The \$5.00 is added to the Class Base Wage for all hours worked. Additionally, the \$5.00 is subject to the V-Code listed on the OVERTIME CODE Sheet.

Supplemental Benefits per hour:

Apprentices \$ 35.25

11-825SE

Painter

03/01/2026

JOB DESCRIPTION Painter

DISTRICT 1

ENTIRE COUNTIES

Columbia, Dutchess, Greene, Orange, Sullivan, Ulster

WAGES

Per hour

07/01/2025

Brush/Paper Hanger	\$ 40.45
Dry Wall Finisher	40.45
Lead Abatement	40.45
Sandblaster-Painter	40.45
Spray Rate	41.45

See Bridge Painting rates for the following work:

Structural Steel, all work performed on tanks, ALL BRIDGES, towers, smoke stacks, flag poles. Rate shall apply to all of said areas from the ground up.

SUPPLEMENTAL BENEFITS

Per hour

Journeyworker \$ 27.72

OVERTIME PAY

See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour

Six (6) month terms at the following percentage of Journeyperson's wage

1st	2nd	3rd	4th	5th	6th
50%	55%	65%	75%	85%	95%

Supplemental Benefits per hour worked

1st term \$ 11.64
All others 27.72

1-155

Painter - Bridge & Structural Steel

03/01/2026

JOB DESCRIPTION Painter - Bridge & Structural Steel

DISTRICT 8

ENTIRE COUNTIES

Albany, Bronx, Clinton, Columbia, Dutchess, Essex, Franklin, Fulton, Greene, Hamilton, Kings, Montgomery, Nassau, New York, Orange, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Ulster, Warren, Washington, Westchester

WAGES

Per Hour:

STEEL:

Bridge Painting:	07/01/2025	10/01/2025
	\$ 56.25	\$ 57.00
	+ 11.10*	+ 12.10*

ADDITIONAL \$7.00 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 (50 hour cap).

** To be allocated a later date

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:	\$ 13.33	\$ 13.49
	+ 30.76*	+ 31.27*

* 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 (50 hour 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.

	07/01/2025	10/01/2025
1st year	\$ 22.50 + 4.44	\$ 22.80 + 4.54*
2nd year	\$ 33.75 + 6.63	\$ 34.20 + 7.26*
3rd year	\$ 45.00 + 8.88	\$ 45.60 + 10.60*
Supplemental Benefits - Per hour:		
1st year	\$ 1.52 + 12.51	\$ 18.63*
2nd year	\$ 8.00 + 18.47	\$ 8.09 + 19.04*
3rd year	\$ 10.66 + 24.62	\$ 10.79 + 25.39*

NOTE: All premium wages are to be calculated on base rate per hour only.

8-DC-9/806/155-BrSS

Painter - Line Striping 03/01/2026

JOB DESCRIPTION Painter - Line Striping

DISTRICT 8

ENTIRE COUNTIES

Albany, Clinton, Columbia, Dutchess, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Nassau, Orange, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Ulster, Warren, Washington, Westchester

WAGES

Per hour:

	07/01/2025	04/01/2026
Painter (Striping-Highway):		
Striping-Machine Operator*	\$ 35.49	\$ 36.93
Linerman Thermoplastic	42.74	44.44

Note: * Includes but is not limited to: Positioning of cones and directing of traffic using hand held devices. Excludes the Driver/Operator of equipment used in the maintenance and protection of traffic safety.

SHIFT WORK

When directly specified in public agency or authority contract documents there shall be a 30% night shift premium pay differential for all work performed after 9:00pm and before 5:00am.

SUPPLEMENTAL BENEFITS

Per hour paid:

Journeyworker:

Striping Machine Operator:	\$24.30	\$ 24.95
Linerman Thermoplastic:	24.30	24.95

OVERTIME PAY

See (B, B2, E2, F, S) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 20) on HOLIDAY PAGE
 Overtime: See (5, 20) on HOLIDAY PAGE

REGISTERED APPRENTICES

One (1) year terms at the following wage rates:

07/01/2025	01/01/2026	04/01/2026
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1st Term:	\$ 16.50	\$ 17.00	\$ 17.00
2nd Term:	21.29	20.47	22.16
3rd Term:	28.39	27.30	29.54

Supplemental Benefits per hour:

All terms:	\$ 24.30	\$ 24.30	\$ 24.95
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8-1456-LS

Painter - Metal Polisher**03/01/2026**

JOB DESCRIPTION Painter - Metal Polisher**DISTRICT** 8**ENTIRE COUNTIES**

Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

	07/01/2025
Metal Polisher	\$ 40.33
Metal Polisher*	41.43
Metal Polisher**	44.33

*Note: Applies on New Construction & complete renovation

** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2025
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Journeyworker:

All classification	\$ 13.44
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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, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One (1) year term at the following wage rates:

	07/01/2025
1st year	\$ 20.17
2nd year	22.18
3rd year	24.20
1st year*	\$ 20.56
2nd year*	22.62
3rd year*	24.74
1st year**	\$ 22.67
2nd year**	24.68
3rd year**	26.70

*Note: Applies on New Construction & complete renovation

** Note: Applies when working on scaffolds over 34 feet.

Supplemental benefits:

Per hour:

1st year	\$ 8.94
2nd year	8.94
3rd year	8.94

8-8A/28A-MP

Plumber**03/01/2026**

JOB DESCRIPTION Plumber

DISTRICT 11

ENTIRE COUNTIES

Orange, Rockland, Sullivan

PARTIAL COUNTIES

Ulster: Only the Townships of Plattekill, Marlboro, Wawarsing, and Shawangunk (except for Wallkill and Shawangunk Prisons).

WAGES

REFRIGERATION: For commercial and industrial refrigeration which means service, maintenance, and installation work where the combined compressor tonnage does not exceed 40 tons.

AIR CONDITIONING: Air conditioning to be installed that is water cooled shall not exceed 25 tons. This will include the piping of the component system and erection of water tower. Air conditioning that is air cooled shall not exceed 50 tons.

WAGES: (per hour)

	07/01/2025	05/01/2026
Plumber-HVAC	\$ 41.99	Additional \$ 2.50*

*To be allocated at a later date

Star Certification: an additional \$ 1.00 per hour over scale will be paid to all those who have Star Certification.

SHIFT WORK

Shift Differential: When mandated by the governmental agency, an additional 15% premium will be paid for irregular workday or for 2nd and 3rd shift.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman

\$ 37.38*

*For overtime or shift differential work, \$0.10 is paid at straight time, the remaining balance is paid at the same premium as the wages.

OVERTIME PAY

See (B, G, P, *V) on OVERTIME PAGE

* A portion of the benefit amount is subject to the V code for overtime and shift differential work.

HOLIDAY

Paid: See (5, 6, 13, 15, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 13, 15, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

(1)year terms at the following wage.

	07/01/2025
1st term	\$ 18.90
2nd term	23.09
3rd term	27.29
4th term	31.49
5th term	35.69

Supplemental Benefits per hour:

Apprentices

1st term	\$ 16.89*
2nd term	20.62*
3rd term	24.34*
4th term	28.08*
5th term	31.80*

*For overtime or shift differential work, \$0.10 is paid at straight time, the remaining balance is paid at the same premium as the wages.

11-373 Refrig

Plumber

03/01/2026

JOB DESCRIPTION Plumber

DISTRICT 11

ENTIRE COUNTIES

Orange, Rockland, Sullivan

PARTIAL COUNTIES

Ulster: Only the Townships of Plattekill, Marlboro, Wawarsing, and Shawangunk, Ellenville up to Napanoch Prison.

WAGES

WAGES:(per hour)	07/01/2025	05/01/2026 Additional	05/01/2027 Additional
Plumber/Steamfitter	\$ 53.20	+ \$3.00*	+ \$3.00*

(*) To be allocated at a later date

Note: For all work 40-60 feet above ground add \$ 0.25 per hour, over 60 feet add \$ 0.50 per hour.

SHIFT WORK

Shift Differential: When mandated by the governmental agency, an additional 15% premium will be paid for irregular workday or for 2nd and 3rd shift.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 46.57*

*For overtime or shift differential work, \$0.10 is paid at straight time, the remaining balance is paid at the same premium as the wages.

OVERTIME PAY

See (B, E, Q, *V) on OVERTIME PAGE

* A portion of the benefit amount is subject to the V code for overtime and shift differential work.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE

When a holiday falls on a Saturday, the day prior shall be considered and recognized as the holiday. When a holiday falls on a Sunday, the day proceeding shall be considered and recognized as the holiday to be observed.

REGISTERED APPRENTICES

(1) year terms at the following wages.

	07/01/2025
1st term	\$ 23.94
2nd term	29.26
3rd term	34.58
4th term	39.90
5th term	45.22

Supplemental Benefits per hour:

1st term	\$ 21.02*
2nd term	25.67*
3rd term	30.31*
4th term	34.97*
5th term	39.60*

*For overtime or shift differential work, \$0.10 is paid at straight time, the remaining balance is paid at the same premium as the wages.

11-373 SF

Roofer

03/01/2026

JOB DESCRIPTION Roofer

DISTRICT 9

ENTIRE COUNTIES

Bronx, Dutchess, Kings, New York, Orange, Putnam, Queens, Richmond, Rockland, Sullivan, Ulster, Westchester

WAGES

Per Hour:	07/01/2025	05/01/2026 Additional
Roofer/Waterproofeer	\$ 50.25 + \$7.00*	+ \$ 2.75

* 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: \$ 32.62

OVERTIME PAY

See (B, H) on OVERTIME PAGE

Note: An observed holiday that falls on a Sunday will be observed the following Monday.

HOLIDAY

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

(1) year term apprentices indentured prior to 01/01/2023

1st	2nd	3rd	4th
\$ 17.59	\$ 25.13	\$ 30.15	\$ 37.69
	+ 3.50*	+ 4.20*	+ 5.26*

Supplements:

1st	2nd	3rd	4th
\$ 4.22	\$ 16.69	\$ 19.87	\$ 24.65

* This portion is not subjected to overtime premiums.

(1) year term apprentices indentured after 01/01/2023

1st	2nd	3rd	4th	5th
\$ 19.10	\$ 22.61	\$ 25.13	\$ 30.15	\$ 37.69
	+ 3.16*	+ 3.50*	+ 4.20*	+ 5.26*

Supplements:

1st	2nd	3rd	4th	5th
\$ 7.95	\$ 15.09	\$ 16.69	\$ 19.87	\$ 24.65

* This portion is not subjected to overtime premiums.

9-8R

Sheetmetal Worker

03/01/2026

JOB DESCRIPTION Sheetmetal Worker

DISTRICT 8

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

WAGES

	07/01/2025
SheetMetal Worker	\$ 51.48
	+ 3.81*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

SHIFT WORK

For all NYS D.O.T. and other Governmental mandated off-shift work:

12% increase for additional shifts for a minimum of five (5) days

SUPPLEMENTAL BENEFITS

Journeyworker	\$ 47.43
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OVERTIME PAY

OVERTIME:.. See (B, E, Q,) on OVERTIME PAGE.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 16, 23) on HOLIDAY PAGE

REGISTERED APPRENTICES

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 21.00	\$ 21.71	\$ 24.12	\$ 26.51	\$ 28.93	\$ 31.37	\$ 34.25	\$ 37.11
+ 1.52*	+ 1.71*	+ 1.91*	+ 2.10*	+ 2.29*	+ 2.48*	+ 2.67*	+ 2.86*

*This portion of the benefit is NOT subject to the SAME PREMIUM as shown for overtime.

Supplemental Benefits per hour:

Apprentices

1st term	\$ 18.57
2nd term	22.80
3rd term	25.34
4th term	27.88
5th term	30.40
6th term	32.92
7th term	34.99
8th term	37.08

8-38

Sprinkler Fitter

03/01/2026

JOB DESCRIPTION Sprinkler Fitter

DISTRICT 1

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

WAGES

Per hour 07/01/2025

Sprinkler \$ 57.20
Fitter

SUPPLEMENTAL BENEFITS

Per hour

Journeyworker \$ 31.36

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

REGISTERED APPRENTICES

Wages per hour

One Half Year terms at the following wage.

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$ 29.33	\$ 32.75	\$ 35.47	\$ 38.20	\$ 40.25	\$ 43.66	\$ 46.39	\$ 49.12	\$ 51.85	\$ 54.58

Supplemental Benefits per hour

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$ 9.57	\$ 9.57	\$ 21.49	\$ 21.49	\$ 21.74	\$ 21.74	\$ 21.74	\$ 21.74	\$ 21.74	\$ 21.74
									1-669.2

Teamster - Building / Heavy&Highway

03/01/2026

JOB DESCRIPTION Teamster - Building / Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Dutchess, Orange, Rockland, Sullivan, Ulster

WAGES

GROUP I: LeTourneau Tractors, Double Barrel Euclids, Athney Wagons and similar equipment (except when hooked to scrapers), I-Beam and Pole Trailers, Tire Trucks, Tractor and Trailers with 5 axles and over, Articulated Back Dumps and Road Oil Distributors, Articulated Water Trucks and Fuel Trucks/Trailers, positions requiring a HAZMAT CDL endorsement.

GROUP II: Drivers on detachable Gooseneck Low Bed Trailers rated over 35 tons.

GROUP III: All equipment 25 yards and up to and including 30-yard bodies and cable Dump Trailers and Powder and Dynamite Trucks.

GROUP IV: All Equipment up to and including 24-yard bodies, Mixer Trucks, Dump Crete Trucks and similar types of equipment, Fuel Trucks, Batch Trucks and all other Tractor Trailers, Hi-Rail Truck.

GROUP V: Tri-Axles, Ten Wheelers, Grease Trucks, Tillerman, Pattern Trucks, Attenuator Trucks, Water Trucks, Bus.

GROUP VI: Straight Trucks.

GROUP VII: Pick-up Trucks for hauling materials and parts, and Escort Man over-the-road.

WAGES: (per hour) 07/01/2025 05/01/2026

GROUP I	\$ 37.91	\$ 39.51
GROUP II	39.03	40.63
GROUP III	37.35	38.95
GROUP IV	37.13	38.73
GROUP V	37.02	38.62
GROUP VI	36.90	38.50

GROUP VII	36.90	38.50
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NOTE ADDITIONAL PREMIUMS:

- Employees engaged in hazardous/toxic waste removal, on a State or Federally designated hazardous/toxic waste site, where the employee comes in contact with hazardous/toxic waste material and when personal protective equipment is required for respiratory, skin, or eye protection, the employee shall receive an additional 20% premium above the hourly wage.

SHIFT WORK

- On projects requiring an irregular shift a premium of 10% will be paid on wages. The premium will be paid for off-shift or irregular shift work when mandated by Governmental Agency.

SUPPLEMENTAL BENEFITS

Per hour:

First 40 hours	\$ 46.37	\$ 47.68
Over 40 hours	38.37	39.68

OVERTIME PAY

See (*B, E, **E2, ***P, X) on OVERTIME PAGE

*Holidays worked Monday through Friday receive Double Time (2x) after 8 hours.

**Makeup day limited to the employees who were working on the site that week.

***Sunday Holidays are paid at a rate of double time and one half (2.5x) for all hours worked.

HOLIDAY

Paid: See (5, 6, 15, 25) on HOLIDAY PAGE

Overtime: See (*1) on HOLIDAY PAGE

- Any employee working two (2) days in any calendar week during which a holiday occurs shall receive a days pay for each holiday occurring during said week. This provision shall also apply if a holiday falls on a Saturday or Sunday.

*See OVERTIME PAY section for when additional premium is applicable on Holiday hours worked.

11-445B/HH

Teamster - Delivery - Building / Heavy&Highway

03/01/2026

JOB DESCRIPTION Teamster - Delivery - Building / Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Dutchess, Orange, Rockland, Sullivan, Ulster

WAGES

THESE RATES ARE ONLY TO BE USED FOR DELIVERY OF AGGREGATE MATERIALS TO THE JOB SITE. FOR ALL ONSITE WORK AND HAULING OF SPOILS SEE THE TEAMSTER BUILDING/HEAVY & HIGHWAY RATES.

Group 1	Tractor Trailer Drivers
Group 2	Tri- Axle

Wages:	07/01/2025	05/01/2026
Group 1	\$ 37.35	\$ 38.95
Group 2	37.02	38.62

Hazardous/Toxic Waste Removal additional 20% when personal protective equipment is required.

SUPPLEMENTAL BENEFITS

Per hour paid:

First 40 hours	\$ 46.37	\$ 47.68
Over 40 hours	0.00	0.00

OVERTIME PAY

See (B, E, Q, X) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 13, 15, 16, 20, 22, 25, 26) on HOLIDAY PAGE

Overtime: See (5, 13, 15, 16, 20, 22, 25, 26) on HOLIDAY PAGE

- Employee must work either the scheduled day of work before or the scheduled day of work after the holiday in the workweek.

- Any employee working one (1) day in the calendar week during which a holiday occurs shall receive a day's pay for each holiday occurring during said week. This provision shall also apply if a holiday falls on a Saturday.

- When any of the recognized holidays occur on Sunday and are celebrated any day before or after the holiday Sunday, such days shall be considered as the holiday and paid for as such.

11-445 B/HH Delivery

Welder

03/01/2026

JOB DESCRIPTION Welder

DISTRICT 1

ENTIRE COUNTIES

Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

Per hour 07/01/2025

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
- (B3) Time and one half of the hourly rate after 40 straight 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) 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 Years
- (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

(29) Juneteenth

New York State Department of Labor - Bureau of Public Work
State Office Building Campus
Building 12 - Room 130
Albany, New York 12226

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

Submitted By:

(Check Only One) ☐ Contracting Agency ☐ Architect or Engineering Firm ☐ Public Work District Office Date:

A. Public Work Contract to be let by: (Enter Data Pertaining to Contracting/Public Agency)

1. Name and complete address ☐ (Check if new or change)

Telephone

Fax

E-Mail:

2. NY State Units (see Item 5).

☐ 01 DOT

☐ 02 OGS

☐ 03 Dormitory Authority

☐ 04 State University
Construction Fund

☐ 05 Mental Hygiene
Facilities Corp.

☐ 06 OTHER N.Y. STATE UNIT

☐ 07 City

☐ 08 Local School District

☐ 09 Special Local District, i.e.,
Fire, Sewer, Water District

☐ 10 Village

☐ 11 Town

☐ 12 County

☐ 13 Other Non-N.Y. State
(Describe)

3. SEND REPLY TO ☐ (check if new or change)
Name and complete address:

Telephone

Fax

E-Mail:

4. SERVICE REQUIRED. Check appropriate box and provide project information.

☐ New Schedule of Wages and Supplements.

APPROXIMATE BID DATE :

☐ Additional Occupation and/or Redetermination

PRC NUMBER ISSUED PREVIOUSLY FOR
THIS PROJECT :

OFFICE USE ONLY

B. PROJECT PARTICULARS

5. Project Title

Description of Work

Contract Identification Number

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



NEW YORK STATE DEPARTMENT OF LABOR
Bureau of Public Work - Debarment List

**LIST OF EMPLOYERS INELIGIBLE TO BID ON OR BE
AWARDED ANY PUBLIC WORK CONTRACT**

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 please call 518-457-5589.

NYSDOL Bureau of Public Work Debarment List 03/06/2026

Article 8

AGENCY	Fiscal Officer	FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	DOL	*****5754	0369 CONTRACTORS, LLC		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL	*****5784	A.J.M. TRUCKING, INC.		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	DOL		AKHLAQ OULAKH		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		ALEXANDER DELISA		411 THEODORE FREMND SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	NYC		ALL COUNTY SEWER & DRAIN, INC.		7 GREENFIELD DR WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL	*****8387	AMERICAN PAVING & MASONRY, CORP.		8 FOREST AVE GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL	*****8654	AMERICAN PAVING, INC.		8 FORREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL		ANGELO GARCIA		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL		ANGELO STANCO		8 FOREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL		ANGELO TONDO		449 WEST MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****4231	ANKER'S ELECTRIC SERVICE, INC.		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL		ANTHONY CASALE		20 HEATHER RIDGE ROAD TROY NY 12180	05/20/2025	05/20/2030
DOL	DOL		ANTHONY MONGELLI		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	DOL	*****8421	B & B DRYWALL, INC		206 WARREN AVE APT 1WHITE PLAINS NY 10603	12/14/2021	12/14/2026
DOL	DA	*****2404	BJA RENOVATION, CORP		33 DOLLARD DR NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL	*****5078	BLACK RIVER TREE REMOVAL, LLC		29807 ANDREWS ROAD BLACK RIVER NY 13032	10/17/2023	10/17/2028
DOL	DOL		C.M.C CONTRACTORS, INC.		500 WEST PUTNAM AVE SUITE 400GREENWICH CT 06830	09/03/2025	09/03/2030
DOL	DOL	*****5161	CALADRI DEVELOPMENT CORP.		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****3391	CALI ENTERPRISES, INC.		1223 PARK STREET PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL		CARLOS F. ESCOBAR		411 THEODORE FREMD AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		CARLOS FIGUEROA		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL	*****4155	CASA BUILDERS, INC.	FRIEDLANDER CONSTRUCTI ON	64 N PUTT CONNERS ROAD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG	*****7247	CENTURY CONCRETE CORP		2375 RAYNOR ST RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL		CESAREO TULA		120 SEARS AVE ELMSFORD NY 10523	09/26/2025	09/26/2030
DOL	DOL	*****2292	CHAMPION MAINTENANCE CONTRACTORS, INC.		211 SOUTH RIDGE STREET RYE BROOK NY 10573	09/03/2025	09/03/2030
DOL	NYC	*****2117	CHARAN ELECTRICAL ENTERPRISES		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DOL		CHARLES CASALE		55 MAIN AVENUE WYNANTSKILL NY 12198	05/20/2025	05/20/2030
DOL	DOL		CHARLES CASALE		55 MAIN AVENUE WYNANTSKILL NY 12198	05/20/2025	05/20/2030
DOL	DOL		CHRISTOPHER PEROSI		5507 NESCONSET HIGHWAY MT. SINAI NY 11766	07/17/2025	07/17/2030
DOL	DOL	*****2281	CORRAO TRUCKING, INC.		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL		CRAIG JOHANSEN		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL	*****7619	DANCO CONSTRUCTION UNLIMITED INC.		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026
DOL	DOL		DANIEL DELISA		211 SOUTH RIDGE STREET RYE BROOK NY 10573	09/03/2025	09/03/2030
DOL	DOL		DANIEL ROBERT MCNALLY		7 GREENFIELD DRIVE WARWICK NY 10990	03/25/2022	03/25/2027

NYSDOL Bureau of Public Work Debarment List 03/06/2026

Article 8

DOL	DOL		DARWIN PEGUESE		6400 BALTIMORE NATIONAL SUITE 602CANTONSVILLE NY 21228	10/24/2024	10/24/2029
DOL	DOL		DAVID FRIEDLANDER		64 NORTH PUTT CORNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	DOL		DENISE NAGLE		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		DINA TAYLOR		64 N PUTT CONNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG		EDWIN HUTZLER		23 NORTH HOWELLS RD BELLPORT NY 11713	08/04/2021	08/04/2026
DOL	DA		EDWIN HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****2337	EGL DRAINAGE SOLUTION & REPAIRS LLC		5507 NESCONSET HIGHWAY MT. SINAI NY 11766	07/17/2025	07/17/2030
DOL	DOL	*****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	DOL		EMIL KISZKO		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	*****3298	EMJACK CONSTRUCTION CORP.		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	*****3298	EMJACK CONSTRUCTION LLC		4192 SIR ANDREW CIRCLE DOYLESTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL		EUGENIUSZ "GINO" KUCHAR		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	DA		FREDERICK HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****2998	G.E.M. AMERICAN CONSTRUCTION CORP.		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	DA		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	DA		GIOVANNA TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		GIOVANNI NAPOLITANO		2501 BAYVIEW AVENUE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DA	*****0213	GORILLA CONTRACTING GROUP, LLC		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DA	*****4760	GTX CONSTRUCTION ASSOCIATES, CORP		2501 BAYVIEW AVE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DOL		HENRY WICKE A/K/A HENRY WICKE, JR.		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****6961	HUNTER ELEVATOR COMPANY, INC.		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL	*****2397	ISLAND BREEZE MARINE, INC.		6400 BALTIMORE NATIONAL CANTONSVILLE MD 21228	10/24/2024	10/24/2029
DOL	DOL	*****5010	J. LINDSLEY ENTERPRISE, LLC		1002 STATE ROUTE 176 FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	*****0241	J. LINDSLEY ROOFING, LLC		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	*****9211	J. WASE CONSTRUCTION CORP.		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		J.M.J CONSTRUCTION		151 OSTRANDER AVENUE SYRACUSE NY 13205	11/21/2022	11/21/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	12/12/2022	12/12/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027

NYSDOL Bureau of Public Work Debarment List 03/06/2026

Article 8

DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		JAMES J. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL		JAMES LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****7993	JBS DIRT, INC.		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****2435	JEFFEL D. JOHNSON	JMJ7 AND SON	5553 CAIRNSTRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JEFFEL JOHNSON ELITE CARPENTER REMODEL AND CONSTRUCTION		C2 EVERGREEN CIRCLE LIVERPOOL NY 13090	11/21/2022	11/21/2027
DOL	DOL	*****2435	JEFFREY M. JOHNSON	JMJ7 AND SON	5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JENNIFER LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JERRY DASTON		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		JIM PLAUGHER		17613 SANTE FE LINE ROAD WAYNEFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL		JMJ7 & SON CONSTRUCTION, LLC		5553 CAIRNS TRAIL LIVERPOOL NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 AND SONS CONTRACTORS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS		7014 13TH AVENUE BROOKLYN NY 11228	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS AND SONS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS, LLC		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JOHN MARKOVIC		47 MANDON TERRACE HAWTHORN NJ 07506	03/29/2021	03/29/2026
DOL	DOL		JOHN NAGLE A/K/A JOHN NAGLE, JR.		36 OAKWOOD TRAIL S AL MONROE NY 10950	10/29/2025	10/29/2030
DOL	DOL		JOHN WASE		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		JONATHAN DELISA		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		JORGE FIGUEROA		411 THEODORE FRMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		JORGE RAMOS		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	DA		JOSEPH DEMASCO		33 DOLLARD DRIVE NORTH BABYLON NY 11703	01/30/2026	01/30/2031
DOL	DA		JOSEPH DEMASCO		33 DOLLARD DRIVE NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL		JOSEPH HALL		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL	*****2271	JOSEPH HALL COMPANIES LLC		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL		JOSEPH K. SALERNO		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL		JOSEPH K. SALERNO II		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027

NYSDOL Bureau of Public Work Debarment List 03/06/2026

Article 8

DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		JRN CONSTRUCTION CO, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL		KATE E. CONNOR		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL		KEAN INDUSTRIES, LLC		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL	*****2959	KELC DEVELOPMENT, INC		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL		KEVIN FUNEZ URBINA A/K/A KEVIN FUNEZ		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KIMBERLY F. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****8760	KJ&J CONSTRUCTION, LLC		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KMA GROUP II, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL	*****1833	KMA GROUP INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KMA INSULATION, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KRIN HEINEMANN		2345 ROUTE 52, SUITE 2N HOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	NYC		KULWANT S. DEOL		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DA	*****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL	*****3716	LIGHTNIN ELECTRIC INC.		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	AG	*****3291	LINTECH ELECTRIC, INC.		3006 TILDEN AVE BROOKLYN NY 11226	02/16/2022	02/16/2027
DOL	DOL		LIZETTE PONCE		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		LOUIS A. CALICCHIA		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DA		MANUEL P TOBIO		150 KINGS STREET BROOKLYN NY 14444	08/19/1998	08/19/2998
DOL	DA		MANUEL TOBIO		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		MOHAMMAD MIAN		8269 21ST ST BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	NYC		NASEER CHAUDHRY		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	DOL	*****7790	NATIONAL BUILDING & RESTORATION CORP		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028

NYSDOL Bureau of Public Work Debarment List 03/06/2026

Article 8

DOL	DOL	*****1797	NATIONAL CONSTRUCTION SERVICES, INC		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	NYC		NAVIT SINGH		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		NELCO CONTRACTING, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028
DOL	DA		NICHOLAS BARNETT		33 DOLLARD DR BABYLON NY 11703	03/04/2025	03/04/2030
DOL	DOL		NICHOLAS RAO		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DA		NICHOLAS T. ANALITIS		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL		NIKOLA NTONI		3418 NORTHERN BLVD SUITE 5-27/LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	NYC	*****6971	NN CONSTRUCTION, INC.		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	NYC	*****5643	NYC LINE CONTRACTORS, INC.		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL	*****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	*****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL	*****4772	R.W. LOBDELL CONSTRUCTION LLC		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	DOL	*****2633	RAW POWER ELECTRIC CORP.		3 PARK CIRCLE MIDDLETOWN NY 10940	07/11/2022	07/11/2027
DOL	DOL		ROBBYE BISSESAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROMEO WARREN		161 ROBYN RD MONROE NY 10950	07/11/2022	07/11/2027
DOL	DOL		ROSA GARCIA		411 THEODORE FRMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL	*****7172	RZ & AL INC.		198 RIDGE AVENUE VALLEY STREAM NY 11581	06/06/2022	06/06/2027
DOL	DOL		SAL FRESINA MASONRY CONTRACTORS, INC.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL		SAL MASONRY CONTRACTORS, INC.		(SEE COMMENTS) SYRACUSE NY 13202	07/16/2021	07/16/2026
DOL	DOL	*****9874	SALFREE ENTERPRISES INC		P.O BOX 14 2821 GARDNER RDPOMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		SALVATORE A FRESINA A/K/A SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DOL		SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DA	*****0476	SAMCO ELECTRIC CORP.		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		SILVANO TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DOL	*****0440	SOLAR GUYS INC.		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	NYC	*****3661	SPANIER BUILDING MAINTENANCE CORP		200 OAK DRIVE SYOSSET NY 11791	03/14/2022	03/14/2027
DOL	DOL		STANADOS KALOGELAS		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026
DOL	DOL	*****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	DOL	*****9528	STEEL-IT, LLC.		17613 SANTE FE LINE ROAD WAYNESFIELD OH 45896	07/16/2021	07/16/2026

NYSDOL Bureau of Public Work Debarment List 03/06/2026

Article 8

DOL	DOL		STEVEN DELISA		411 THEODORE FREMND AVE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL	*****3800	SUBURBAN RESTORATION CO. INC.		5-10 BANTA PLACE FAIR LAWN PLACE NJ 07410	03/29/2021	03/29/2026
DOL	DOL	*****9150	SURGE INC.		8269 21ST STREET BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	DOL		SYED MUHAMMAD S. JAFRI A/K/A SHARRUKH JAFRI		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		SYED RAZA		198 RIDGE AVENUE NY 11581	06/06/2022	06/06/2027
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	*****4855	TECH INDUSTRIES LLC		20 HEATHER RIDGE ROAD TROY NY 12180	05/20/2025	05/20/2030
DOL	DOL	*****9733	TERSAL CONSTRUCTION SERVICES INC		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13208	07/16/2021	07/16/2026
DOL	DOL		TERSAL CONTRACTORS, INC.		221 GARDNER RD P.O BOX 14POMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		TERSAL DEVELOPMENT CORP.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL	*****2426	THE MATRUKH GROUP, INC.		4307 28TH AVE PO BOX 9082ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		THOMAS LOBDELL		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	DOL		TIMOTHY PERCY		29807 ANDREWS ROAD BLACK RIVER NY 13612	10/17/2023	10/17/2028
DOL	DA	*****1050	TRI STATE CONSTRUCTION OF NY CORP.		50-39 175TH PLACE FRESH MEADOWS NY 11365	03/28/2022	03/28/2027
DOL	DA	*****4106	TRIPLE H CONCRETE CORP		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****8485	TULA PLUMBING AND HEATING LLC		120 SEARS AVE ELMSFORD NY 10523	09/26/2025	09/26/2030
DOL	DOL	*****8210	UPSTATE CONCRETE & MASONRY CONTRACTING CO INC		449 WEST MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL		VINCENT CORRAO		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL	*****8266	WILLIAM CHRIS MCCLENDON	MCCLENDON ASPHALT PAVING	1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM CHRIS MCCLENDON		1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM SCRIVENS		4192 SIR ANDREW CIRCLE DOYELSTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL	*****9494	WND CONSTRUCTION LLC		411 THEODORE FREMD AVENUE SUITE 206RYE NY 10580	09/03/2025	09/03/2030
DOL	DOL		XENOFON EFTHIMIADIS		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028

GENERAL CONDITIONS

ARTICLE I

Statement of Performance and Compensation

1.1 The Contractor, at its own sole cost and expense, shall furnish all labor and services and all material and equipment necessary to perform the Contract Work and all work incidental thereto and shall perform all such work to completion in strict accordance with the Contract Documents as defined herein and subject to the satisfaction and approval of the Owner, within the time specified in the Information for Bidders, and further subject to all the covenants, agreements, promises, and conditions hereto.

1.2 The Owner shall pay and the Contractor shall accept, in full consideration of the Contractor's performance of the Contract, subject to additions and deductions as provided herein, the sum of _____.
(\$ _____).

ARTICLE II

Definitions

2.1 The Contract. The following shall be referred to as the "Contract Documents" and shall be deemed to be a part of this Contract:

- a. Invitation to bid and information for bidders;
- b. Proposal or bid;
- c. Qualification of Bidder;
- d. Notice of Intent to Award;
- e. Notice of Award;
- f. Notice to Proceed;

- g. General Conditions;
- h. Special Conditions;
- i. Specifications;
- j. Drawings;
- k. All Addenda issued by Owner;
- l. All provisions required by law to be deemed included in this Contract whether or not actually appearing therein;
- m. Performance and Payment Bonds.

2.2 "ADDENDUM" or "ADDENDA" shall mean those additional contract provisions issued in writing by the Owner prior to receipt of bids.

2.3 "CHANGE ORDER" shall mean those written orders, specified in Article IX, by which the Owner may order revisions, additions, or omissions to the Work.

2.4 "CONTRACT" shall mean the agreement between the parties as expressed in those Contract Documents referred to in Paragraph 2.1 of this Article.

2.5 "CONTRACT PRICE" shall mean the lump sum price, or gross price in the case of a unit price contract, provided in Article I for which Contractor agrees to perform the Work.

2.6 "CONTRACTOR" shall mean the party of the second part hereto, whether corporation, partnership, joint venture, or individual, or any combination thereof, and its, their or his or her successors, personal representatives, executors, administrators and assigns, and any person, firm or corporation who or which shall at any time be legally substituted in the place of the party of the second part under this Contract.

"OTHER CONTRACTORS" shall mean any contractor (other than the party of the second part or its sub-contractors) who has a contract with the Owner for work on or adjacent to the building or site of the work.

2.7 "CONTRACT DRAWINGS" shall mean only those drawings specifically entitled as such

and listed in the specifications or in any addenda, or any detailed drawings furnished by the Owner, pertaining or supplemental thereto.

2.8 "CONTRACT WORK" shall mean everything required to be furnished and done by the Contractor by any one or more of the parts of the Contract referred to in Paragraph 2.1 hereof, except Extra Work as hereinafter defined; it being understood that, in case of any inconsistency or ambiguity in or between any part or parts of this Contract, the Owner shall determine which shall prevail.

2.9 "DISPUTED WORK" shall mean work which the Contractor is ordered to perform, and which the Contractor claims should be considered Extra Work and not Contract Work and which the Owner claims is Contract Work.

2.10 "ENGINEER" shall mean the Engineer of the Owner duly designated by the Owner to be its representative at the site of the work, to administer the Contract and to exercise all the duties and rights to which the Engineer is entitled under the Contract and the Engineer's agreement with the Owner.

2.11 "EXCUSABLE DELAY" shall mean delay in the Contractor's performance of the Work which arises through no fault, error, act or omission of the Contractor.

2.12 "EXTRA WORK" shall mean work duly authorized other than that required by the Contract at the time of its execution.

2.13 "FINAL ACCEPTANCE" shall mean final acceptance of the work by the Owner, as evidenced by its authorized signature upon the Certificate of Final Completion, a copy of which shall be sent to the Contractor. Such acceptance shall be deemed to have taken place as of the date so stated in such Certificate.

2.14 "MATERIALMAN" shall mean any person, firm or corporation, other than employees of the Contractor, who or which contracts with the Contractor, or any Subcontractor, to fabricate or deliver, or who actually fabricates or delivers, plant, materials or equipment incorporated in the Work.

2.15 "MEANS AND METHODS OF CONSTRUCTION" shall mean the labor, materials, temporary structures, tools, plant, and construction equipment, and the manner and time of their use, necessary to accomplish the result intended by this Contract.

2.16 "PROJECT" shall mean the public improvement to which this Contract relates.

2.17 "SITE" or "PROJECT SITE" or "WORK SITE" shall mean the area upon or in which the Contractor's operations are carried on, and such other areas adjacent thereto as may be designated as such by the Engineer.

2.18 "SPECIFICATIONS" shall mean all of the directions, requirements and standards of performance applying to the work as hereinafter detailed and designated under the Contract Document entitled "Specifications".

2.19 "SUBCONTRACTOR" shall mean any person, firm or corporation, other than employees of the Contractor, who or which contracts with the Contractor or his Subcontractors to furnish, or actually furnishes labor, or labor and materials, or labor and equipment, at the site.

2.20 "WORK" shall mean everything required to be furnished and done by the Contractor under the Contract, and shall include both Contract Work and Extra Work.

ARTICLE III

The Work and Its Performance

3.1 Character of the Work. The Contractor agrees to perform and complete the Work in strict accordance with the Contract Documents, with the best modern practice, and with workmanship and materials of the highest quality so as to achieve the results intended by the Contract Documents and to the satisfaction of the Owner and the Engineer.

3.2 Contractor's Warranties. The Contractor warrants and represents that the Work shall satisfy

all the requirements of the Contract and shall conform strictly to the Contract Drawings and Specifications; be completed free from fault and defects; be of the highest quality and incorporate only new materials and equipment unless the Contract otherwise provides; be free of liens and encumbrances; be constructed in compliance with all applicable laws and insurance requirements; and be fit for the intended use and purpose.

The Contractor further warrants and represents that it has reviewed carefully the Contract Documents, and that the Contractor can perform the Contract Work for the Contract Price and can achieve Substantial Completion on or before the scheduled completion date as specified in the Information for Bidders.

3.3 Means and Methods of Construction. The Contractor shall, at its own expense, provide all labor, materials, apparatus, scaffolding, appliances, utensils, tools, machinery, transportation and cartage and whatever else may be required of every description necessary to perform and complete the Work, and shall be solely responsible for the same and for the safe, proper and lawful construction, maintenance and use thereof. Unless otherwise expressly provided in the Contract Drawings, Specifications or Addenda, the Contractor shall be responsible for choosing the means and methods of construction; subject, however, to the Engineer's right to reject means and methods proposed by the Contractor which:

- a. Will constitute or create a hazard to the work, or to persons or property; or
- b. will not produce finished work in accordance with the terms of the Contract.

The Engineer's acceptance of the Contractor's means and methods of construction, or the Engineer's failure to exercise its right to reject such means or methods, shall not relieve the Contractor of any of its obligations under the Contract; nor shall the exercise of such right to reject create any claim or cause of action for damages, which Contractor hereby expressly waives.

3.4 Shop Drawings. The Contractor shall submit on a timely basis all Shop Drawings and revisions thereto, as provided in the Special Conditions.

3.5 Utilities. The Contractor shall have sole responsibility for making all arrangements with

respective utilities for the relocation of utility lines and facilities or the interruption or resumption of service, as may be provided in the Special Conditions and Specifications, and waives all claims against the Owner, its employees, agents or representatives for damages relating to or arising therefrom.

3.6 Contractor's Familiarity with Site and Work Conditions. The Contractor represents that it has inspected and is familiar with the nature and location of the Project Site and all physical conditions relating to the Work, including without limitation utilities, location of utility lines, existing buildings and structures, roads, streets, access to and from the Project Site, topographical conditions, local climate and weather conditions, surface conditions, and normal and foreseeable soil, rock, water and subsurface conditions.

3.7 Unforeseeable Conditions. The Contractor shall be solely responsible for performing to completion all its Work notwithstanding the existence of any surface or subsurface conditions, whether foreseeable or unforeseeable. The Contractor shall perform under Change Order any Extra Work, pursuant to Article IX, required by reason of Unforeseeable Conditions and shall accept Extra Payment therefor, as the Contractor's total compensation for any and all losses, damages or expenses arising out of or relating to Unforeseeable Conditions. The Contractor shall give further written notice to the Engineer within three (3) days after discovery of any condition which the Contractor claims to be an Unforeseeable Condition. The Contractor waives and releases any right to Extra Payment relating to an Unforeseeable Condition if the Contractor fails to give such notice as provided.

3.8 Representative Detail. All specifications, notations, or details in the Contract specifically applicable to one or a number of similar situations, materials or processes, or shown as typical or representative, shall apply to all similar situations, materials, or processes, wherever appearing in the Work, unless the Contract clearly requires a contrary result. A typical or representative detail indicated on the Contract Drawings shall be the standard of workmanship and material in all corresponding parts of the

Work. Where necessary, and where inferable from the Contract Drawings and Specifications, the Contractor shall adapt such representative detail for all corresponding parts of the Work. All references in the Contract to materials, equipment, or facilities shall be construed to require the Contractor to furnish the same in accordance with the grades and/or standards indicated in the Contract. Where the Contract does not specify any explicit quality or standard for materials or workmanship, the Contractor shall use only workmanship and new materials of the best quality.

3.9 Measurements. The Contractor shall be responsible for all measurements required for execution of the Work to the exact position and elevation as required by the Contract. Before executing any work, Contractor shall verify all measurements by inspection or examination at the Site. Contractor acknowledges that the Contract Drawings do not necessarily show all variations in alignment, elevation, or dimension required to satisfy architectural and structural limitations; and Contractor assumes responsibility for the proper and correct construction.

3.10 Interpretation of Contract Documents. The Contractor shall submit to the Engineer, pursuant to Article XII, all issues, questions, and problems concerning the meaning and intent of the Contract, including issues resulting from inconsistencies between or among any documents forming part of the Contract. The Engineer's determination shall be conclusive, final and binding on the Contractor.

3.11 Permits. The Contractor shall secure all permits, licenses, and approvals required under the Contract or otherwise necessary for the proper performance and completion of the Work.

3.12 Specifications and Drawings. The Contract Specifications and Drawings and all other Contract Documents are intended to supplement each other, and together constitute one complimentary set of plans, so that any work exhibited in the one and not in the other shall be executed just as if it had been set forth in all, in order that the Work shall be completed in every respect according to the complete design or designs as decided and determined by the Engineer. Should anything be omitted from the Specifications or

Drawings which is necessary to a complete understanding of the Work, or should any error appear either in the various drawings furnished or in the work done by other Contractors affecting the Work covered hereby, the Contractor shall promptly notify the Engineer in writing, pursuant to Article XII within three (3) days of discovery of the error or omission. In the event of the Contractor's failure to do so, he shall make good any damage or defect in his work cause by reason of such error or omission and waives any claim for Extra Payment therefor.

3.13 Satisfaction of the Owner and Engineer. All work under this Contract shall be done to the satisfaction of the Owner and Engineer. The Engineer shall determine the quantity, quality, acceptability and fitness of the various items of work and materials to be furnished and paid for hereunder, and whether the Contractor has performed in accordance with the Specifications and Drawings. The Engineer may direct the Contractor to correct or remove such materials or work as in the Engineer's opinion are not in accordance with the Specifications or Drawings and to substitute therefore without delay other work and materials, and in such event the expense of doing so and of making the directed correction or substitution shall be borne solely and fully by the Contractor. The determination of the Engineer in all such matters shall be conclusive, final and binding upon the Contractor.

3.14 Contractor's Duty to Correct Defective Work. Upon notification from the Engineer, the Contractor shall, at its own cost, promptly correct any and all defects, including without limitation settlement, shrinkage, and nonconforming materials, in its Work or in that of any Subcontractor employed by the Contractor which occur due to the fault of the Contractor or its Subcontractors during the progress of the Work or which appear within twelve (12) months after the date of Final Acceptance. If, within ten (10) days after mailing of notice in writing to the Contractor or its agents of the occurrence or appearance of any such defect the Contractor has not corrected such defect, the Owner may correct such defect. In the event of an emergency where, in the opinion of the Engineer, delay could cause serious loss or damage to persons or

property, the Owner may correct such defect without advance notice. The Engineer shall determine the cost to the Owner of any defect corrected by the Owner, whose determination shall be conclusive, final and binding, and such cost shall be borne solely by the Contractor. All sums or expenses so incurred by the Owner shall be deducted or offset from money when due or thereafter due from the Owner to the Contractor.

3.15 Lines, Marks and Grades. The Contractor shall, at its own expense, promptly furnish all labor and materials necessary or proper for marking and preserving all lines, marks or grades that may be given to the Contractor by the Engineer. The Contractor shall carefully follow and preserve all the lines, marks and grades given by the Engineer, and shall notify the Engineer promptly whenever the Contractor will need lines, marks or grades other than those which have already been provided, and the Contractor shall not be entitled to any extension of time for delays occurring in the giving of any lines, marks or grades by the Engineer unless twenty-four hours notice in writing is given to the Engineer that additional lines, marks and grades as the case may be are needed. All Work shall conform to the lines and grades by the Engineer in accordance with the said plans, it being understood and agreed, however, that such lines and grades may be from time to time modified in the discretion of the Engineer.

3.16 Inspection. During the progress of the Work and up to the date of Final Acceptance, the Contractor shall at all times afford the Owner and its representatives access to its Work Site and every reasonable, safe and proper facility for inspecting all work done or being done at the Site, and also the manufacture or preparation of materials and equipment at the place of such manufacture or preparation. The Contractor shall also provide such access to representatives of the United States Environmental Protection Agency, the New York State Department of Environmental Conservation, and all other duly authorized governmental authorities. The Contractor's obligations hereunder shall include the uncovering or taking down of finished Work, and its restoration thereafter; provided, however, that the order to uncover, take

down and restore shall be in writing, and further provided that if work thus exposed proves satisfactory, such uncovering or taking down and restoration shall be considered an item of Extra Work to be paid for in accordance with the provisions of Article IX hereof.

3.17 Inspection and acceptance by the Owner, the Engineer or their representatives of finished Work or of Work being performed, or of materials and equipment at the place of manufacture, preparation or storage, shall not relieve the Contractor of its obligation to perform the Work in strict accordance with the Contract. Finished or unfinished Work found not to be in strict accordance with the Contract shall be replaced as directed by the Engineer at Contractor's sole cost, even though such work may have been previously accepted and paid for. Rejected work and materials shall be promptly taken down and removed from the Site, which must at all times be kept in a reasonably clean and neat condition.

3.18 Protection of Work and of Persons and Property. During performance and up to the date of Final Acceptance, the Contractor shall be under an absolute obligation to protect the unfinished Work as well as materials and equipment against any damage, loss or injury; and, in the event of such damage, loss or injury, he shall promptly replace or repair such Work, whichever the Engineer in its discretion shall determine to be preferable. The obligation to deliver finished Work in strict accordance with the Contract prior to Final Acceptance shall be absolute and shall not be affected by the Engineer's approval of or failure to prohibit means and methods of construction used by the Contractor. During performance and up to the date of Final Acceptance, the Contractor must take all reasonable precautions to protect persons and property of the Owner and of others from damage, loss or injury resulting from its or its Subcontractors' operations under this Contract. The Contractor's obligation to protect shall include the duty to provide, place and adequately maintain at or about the Site suitable and sufficient security guards, lights, barricades and enclosures necessary to ensure protection.

3.19 Contractor's Duty to Report. Within three days after written notice to the Contractor of the

occurrence of any loss, damage or injury to work, persons or property, the Contractor shall make a full and complete report in writing to the Engineer.

3.20 Indemnification. The Contractor agrees that, in the event that persons or property of the Owner or of others sustain loss, damage or injury, including death, resulting from the intentional, reckless or negligent acts of the Contractor, or its Subcontractors, in their performance of this Contract, or from its or their failure to comply with any of the provisions of this Contract or of law, the Contractor shall indemnify and hold the Owner and its representatives harmless from all legal expenses and attorneys' fees incurred, all claims and judgment for damages, and all other costs by reason thereof.

3.21 Project Meetings. The Contractor shall attend without exception all Project Meetings upon advance notice from the Owner or Engineer. A copy of the minutes of each meeting shall be sent to the Contractor, who shall promptly inform the Engineer or Owner, in writing, of all errors or omissions in the minutes. The Contractor's failure to do so shall constitute a conclusive and binding admission on the part of the Contractor that the information contained in the minutes is true, accurate and complete.

3.22 No Right of Action. The provisions of this Article shall not be deemed to create any right of action in favor of third parties against the Contractor, or against the Owner or its representatives.

Article IV

Provisions Relating to Time

4.1 Commencement and Prosecution of the Work. The Contractor must commence its Work within ten days after the date specified in the written Notice to Proceed signed by the Owner or Engineer. The time for performance of the Work under the Contract shall be computed from the 10th day after the date specified in such written Notice to Proceed. The Contractor agrees that time is of the essence of this Contract, and the Contractor shall therefore prosecute the Work diligently, using such means and methods of

construction as will assure its completion not later than the date specified therefor, or on the date to which the time for completion may be extended as provided herein.

4.2 Progress Schedule. To enable the Work to be planned and prosecuted in an orderly and expeditious manner, the Contractor, within 10 days after the award of this Contract, unless otherwise directed by the Engineer in writing, shall submit to the Engineer a proposed Progress Schedule, showing:

- a. The anticipated time of commencement and completion of each of the various items of Work to be performed under this Contract;
- b. The sequence of each of these items of Work and their inter-relationship with each other and with those of all other related contracts; and
- c. The estimated time required for fabrication or delivery of all materials and equipment required for the Work; and

4.3 The proposed progress schedule shall be revised as directed by the Engineer and shall be subject to the Engineer's satisfaction. The accepted Progress Schedule shall be strictly adhered to by the Contractor. If the Contractor fails to adhere to the accepted Progress Schedule, or to the Schedule as revised, the Contractor shall promptly adopt such other or additional means and methods of construction as will make up for the time lost and will assure completion in accordance with such Schedule. The Contractor's failure to provide Progress Schedules or requested revisions thereto, or to complete the Work in accordance therewith, shall constitute a material breach of this Contract.

4.4 The Contractor agrees that its submittal of Progress Schedules is for the Owner and Engineer's information, and the Engineer's acceptance of same shall not imply that the Engineer represents or warrants that the Contractor can complete the Work in accordance with the Progress Schedule. If at any time the Engineer determines in its sole discretion that the Contractor's Work is not progressing in accordance with the Progress Schedule or that the Work is likely to be delayed, the Engineer may give

written notice directing the Contractor to increase its manpower and amount or types of equipment, and to undertake additional work shifts. If the Engineer and the Contractor do not agree as to the cause or existence of the delay, or if the Contractor disputes the necessity of the Engineer's directive, the Contractor shall nonetheless comply with the Engineer's directive and shall perform in conformance therewith, subject to Article X (Disputed Work).

Article V

Cooperation with Other Prime Contractors

5.1 The Contractor acknowledges and agrees that the Owner may award contracts to other prime contractors for other portions and aspects of the Project. The Contractor agrees to cooperate fully and coordinate its Work with all other prime contractors in order to avoid disputes and delays, and to assure the timely progress of the Work and the work of all other prime contractors, and the proper, efficient, and expeditious completion of the Project.

5.2 The Contractor agrees to provide access to all other prime contractors to review documents in the Contractor's possession relating to the Work and to observe the Work as necessary or desirable in order to comply with the provisions and purpose of this Article.

5.3 The Contractor agrees to use its best efforts to organize and integrate its Work with the work of all other prime contractors and their subcontractors so as not to interfere with or delay the timely and proper performance of any other prime contractor's work. The Contractor agrees to commence the Work on the Commencement Date and to prosecute the Work with all possible speed so as to comply with the Progress Schedule; submit shop drawings promptly to the Engineer and to other prime contractors so as to cause no delay in the work of any other prime contractor; correct promptly all work which is incorrect or defective, or which does not conform to the Contract; review carefully in advance the progress schedule of

all other prime contractors and all Drawings and Specifications in the Contract of each other prime contractor, and all shop drawings, which may affect the work; allow all other prime contractors to review in advance all documents forming a part of the Contract, and all shop drawings, which may affect the work of such other prime contractors; to coordinate its Work carefully and to allow other prime contractors reasonable access to the Contractor's Site in order to coordinate the Work of all contractors; not to excavate, uncover, cut or alter the work of any other prime contractor unless so ordered by the Engineer; and notify promptly all other prime contractors and the Engineer of all problems which may cause obstruction, damage, or delay to either Contractor or other prime contractors and to cooperate with the other prime contractors to mitigate the effects of the problem.

5.4 The Contractor agrees that the Owner does not guarantee that the Contractor or any other prime contractor will perform its Work in a responsible, efficient or timely fashion; and that the Contractor shall have no recourse or claim whatsoever against the Owner for any loss or damages resulting from any acts or omissions of any other prime contractor, and the Contractor hereby waives any such recourse or claim against the Owner, including damages for delay.

Article VI

Subcontractors

6.1 Submittal. The Contractor shall, with its bid proposal, and prior to entering into any Subcontract, submit to the Engineer, with respect to each proposed Subcontractor, the name and address of the Subcontractor; a description of the work to be performed or materials or equipment supplied by the Subcontractor; a description of the Subcontractor's past experience in performing similar work; a statement that the Subcontractor has sufficient capacity and financial resources to perform and complete its Subcontract; and any other information as to Subcontractor's fitness and responsibility as the Owner or Engineer may request.

6.2 Acceptance. The Engineer shall inform the Contractor prior to execution of the Contract whether the proposed Subcontractor is acceptable. The Engineer's acceptance shall not be construed as any representation or warranty with respect to the Subcontractor's qualifications and fitness or ability to perform the work. The Contractor shall assert no claim for loss or damages by reason of the Engineer's rejection of a proposed Subcontractor. Nothing contained in this Contract shall create any relationship of contract or agency between the Owner and Subcontractor.

6.3 Contractor's Responsibility for Subcontractor. The Contractor shall have full responsibility for all work performed by all its Subcontractors and for all acts and omissions of all its Subcontractors and its Subcontractors' employees.

6.4 Subcontracts. All Subcontracts shall be in writing and an executed copy furnished promptly to the Engineer upon request. The Contractor, prior to entering into each Subcontract, shall inform the Subcontractor in detail of all requirements under this Contract relating to the Subcontractor's Work. All Subcontracts shall provide expressly that such Subcontract is subject to all the requirements of this Contract and that all work under the Subcontract shall comply with all the requirements of this Contract. The Contractor's execution of a Subcontract shall constitute a representation to the Owner that the Contractor has informed the Subcontractor in detail of all requirements under this Contract relating to the Subcontractor's work.

Article VII

Contractor's Representatives

7.1 Designated Representatives. The Contractor shall, upon execution of the Contract, designate in writing one or more persons who shall have full authority to act on behalf of the Contractor with respect to this Contract and to bind the Contractor, and at least one of whom shall be available at all

times during the Contractor's performance of its Work. The Contractor may change the designated representatives upon advance written notice to the Owner.

7.2 Site Representative. The Contractor shall maintain on site at all times during the performance of its Work a superintendent who shall have full authority to make all decisions with respect to the Work, attend job meetings and represent the Contractor in coordinating its Work with other prime contractors.

Article VIII

Payment to Contractor

8.1 Detailed Schedule. For each Lump Sum item bid, prior to the submittal of its first progress payment requisition and as a condition to payment, the Contractor shall submit to the Engineer a Detailed Schedule setting forth a breakdown of the contract price for all the labor and materials to be furnished. The Detailed Schedule shall set forth the quantity and price of each lump sum item of the Work, and shall list the quantity and price as to labor and materials separately. The Detailed Schedule shall be revised promptly by the Contractor upon the Engineer's request and to the satisfaction of the Engineer, and shall not be changed following acceptance except with the Engineer's authorization.

8.2 Progress Payments. Payments for work performed and materials supplied up to the date of Substantial Completion shall only be made pursuant to Requisitions for Payment on forms provided by the Owner, signed by the Contractor and approved by the Engineer. Such Requisitions may be submitted no more than once each month for work and materials actually furnished during the period commencing on the last date covered by the Contractor's last prior Requisition and ending on the date specified in the current Requisition.

8.3 Contents of Requisitions. Each Requisition shall have annexed the Detailed Schedule,

annotated to reflect all lump sum items of Work actually completed to date. Each Requisition shall set forth separately the quantity and price of all labor and materials furnished and incorporated in the Project during the current requisition period, the percentage of the Work actually completed to date, and the quantity and price of all approved Extra Work, clearly designated as such. The Contractor shall also furnish with each Requisition all documents reasonably requested by the Engineer, including without limitation bills of lading or sale and proof of amounts paid or owing to Subcontractors. Each Requisition shall constitute a representation by the Contractor that the work and materials reflected therein have been actually furnished; that the quantities and prices therefore are true and accurate; and that the Contractor has no knowledge of any mechanics', material men's, laborers' or vendors' liens having been filed against the Project or the funds appropriated therefore. Each Requisition shall further constitute a waiver and release of any and all liens by the Contractor for all work and materials furnished through the last day of the last prior Requisition for which payment has been made by the Owner.

8.4 Unincorporated Material. The Owner may, but is not obligated to, approve payment for material which has been fabricated and stored, or undelivered on condition that the Contractor shall have furnished to the Engineer all documents the Owner may require, such as bills of lading or sale and evidence of appropriate insurance coverage.

8.5 Retainage. The Owner shall be entitled to retain out of any amount approved for payment up to five percent (5%) of such amount until the Contractor shall have achieved Substantial Completion, as set forth in Article XVII. The Owner shall in addition be entitled to retain an amount necessary, in the Owner's opinion, to satisfy all claims, liens or judgments against the Contractor which have not been discharged. The amounts retained pursuant to this Paragraph 8.5 are in addition to amounts which the Owner may retain or withhold pursuant to other Articles of this Contract, including Article XIII (Default), Article XIX (Final Completion), Article XX (Maintenance and Guarantee), and Article XXII (Liquidated

Damages).

8.6 Disapproval and Withholding of Payment. The Engineer may disapprove and withhold any payment or portion thereof to the extent that, in the Engineer's opinion: the Requisition or any annexed documents are incorrect or incomplete; the Work or materials described in such Requisition or in any previous Requisition does not comply with the Specifications and Drawings or was not furnished as stated; a lien against the Project or funds appropriated therefore has been filed relating to the Contractor's Work or materials furnished; a claim has been asserted against the Owner for which the Contractor has agreed to indemnify the Owner pursuant to Article III, Paragraph 3.30; any amounts are due and owing from the Contractor to any Subcontractor or employee pursuant to the labor or lien laws; or the Owner has determined the Contractor to be in default pursuant to Article XIII. The Engineer shall notify the Contractor in writing if the Engineer disapproves all or part of a Requisition and the reasons therefor. The Contractor agrees to perform immediately all corrective action required by the Engineer and shall continue to perform the Work without delay in accordance with the Contract.

Article IX

Change Orders, Omitted Work and Extra Work

9.1 Owner's Right to Issue Change Orders. The Contractor agrees that the Owner reserves the right to issue written Change Orders at any time and for any reason whatsoever to revise the Specifications and Drawings, add Extra Work, or omit Work or portions thereof, or which may change the nature, scope, quantity, area, sequence, grade, or size of the Work, whenever in the Owner's opinion it shall be necessary or in its best interests to do so. No Work shall be omitted, and no Extra Work added, except pursuant to a written Change Order approved by the Owner and signed by the Engineer, and the Contractor shall not

perform any Extra Work without such Change Order. The Contractor shall not be entitled to any Extra Payment for any Extra Work to the extent such Extra Work is, in the opinion of the Engineer, required due to the Contractor's fault, error, omission, negligence or delay.

9.2 Reduction in Contract Price. The Contract Price shall be reduced to the extent that any Change Order, whether for omitted Work or otherwise, results in a decrease in the Contractor's cost to perform the work involved, as determined by the Engineer based on the estimated costs of: a) necessary materials; b) necessary direct labor; c) required insurance; d) operation, maintenance and rental of necessary plant and equipment; plus e) ten percent (10%) of the total of items (a) through (d) as compensation for all overhead and administration costs; plus f) ten percent (10%) of the total of items (a) through (e) as compensation for profit. The parties agree that all rental costs of plant and equipment shall be based on the most recent New York State Department of Transportation index or comparable index, in the Engineer's discretion.

9.3 Extra Payment. If the Owner requires Extra Work involving items of work for which unit prices or lump sum amounts are specified in the Contract, the Extra Payment shall be determined by the Engineer in accordance with such unit prices or lump sum amounts. In the event any Extra Work or materials are required by the Owner involving items of work or materials for which prices are not specified in the Contract, the Owner may request the Contractor in writing to submit a proposed quotation for such work or materials on either a lump-sum, unit price, or time and materials basis, in the Owner's discretion. The Contractor shall submit within ten (10) days of the request a written quotation which shall set forth in detail the Contractor's estimated costs, overhead and profit. The quotation shall constitute the Contractor's offer to the Owner to perform such Extra Work at the price quoted, and such offer shall be irrevocable for a period of sixty (60) days from date of receipt; thereafter, any revocation of the offer must be made to the

Owner in writing.

9.4 Inability to Agree on Price. If the Owner and the Contractor are not able to agree on the amount of Extra Payment for the proposed Extra Work, and the Owner exercises its right to issue a Change Order for such Extra Work, or if the Owner exercises its right to issue a Change Order for such Extra Work without requesting or receiving within the time required the Contractor's quotation, then the Contractor shall proceed immediately with the Extra Work, and any Extra Payment due the Contractor for such Extra Work shall be computed on a Time and Material basis, as provided in the following Paragraph 9.5.

9.5 Time and Material Basis. For all Extra Work performed by the Contractor on a Time and Material basis, the Owner shall pay, and the Contractor shall accept, the reasonable costs actually incurred by the Contractor to perform and complete such Extra Work, as determined by the Engineer based on the costs of: a) necessary materials; b) necessary direct labor; c) required insurance; d) operation, maintenance and rental of necessary plant and equipment; plus e) ten percent (10%) of the total of items (a) through (d) as compensation for all overhead and administration costs; plus f) ten percent (10%) of the total of Items (a) through (e) as compensation for profit. The parties agree that all rental costs of plant and equipment shall be based on the most recent New York State Department of Transportation index or comparable index, in the Engineer's discretion.

9.6 Extra Work Performed by Subcontractor. If a Subcontractor performs Extra Work on a lump-sum basis, the Contractor shall be paid the Subcontractor's lump-sum price plus five (5%) of such lump-sum price which shall be deemed to include the Contractor's profit and all costs and expenses, including without limitation, costs of superintendence, administration, insurance, and delay. If a Subcontractor performs Extra Work on a Time and Material basis, the Contractor shall be paid only the actual and reasonable cost of the subcontracted Extra Work, based on the criteria (a) through (f) listed in Paragraph 9.5 above, plus five percent (5%) of such actual and reasonable cost which shall be deemed to

include the Contractor's profit and all costs and expenses, including without limitation costs of overhead, superintendence, administration, insurance and delay.

9.7 Time and Material Statement. The Contractor understands and agrees that the timely submittal of Time and Material Statements is of utmost importance and is a condition precedent to asserting any claim for Extra Payment for Extra Work performed on a Time and Material basis. The Contractor shall deliver to the Engineer on each day during which Extra Work has been done on a Time and Material basis a signed, detailed statement in form acceptable to the Engineer setting forth, separately as to each such day, the following:

- a. the quantity, cost, and description of all materials furnished;
- b. the name of each worker and his or her social security number; number of hours worked; hourly rate of pay; the total wages, taxes, union and insurance assessments; his or her title or category; and description of work performed;
- c. each piece of equipment or machinery used; whether it is owned or rented and if rented, the rental cost; and all costs incurred, including without limitation costs of insurance, fuel, and necessary maintenance.

9.8 Failure to Deliver Time and Material Statements. The Contractor's failure to submit timely a signed and complete Time and Material Statement shall constitute a waiver of any right to Extra Payment to the extent that such Statement is not timely delivered or is incomplete. The Engineer, in its sole discretion, may accept an untimely or incomplete Statement but such acceptance shall not constitute any waiver of the Owner's right to strict enforcement of this provision or to disallow any claim for Extra Payment, and shall not relieve the Contractor of its obligation to comply with the provisions of this Article. The Contractor understands that the information contained in the Time and Material Statements is to enable the Owner to monitor and verify the Extra Work performed and shall not be binding on the Owner.

9.9 Acceptance of Extra Payment. The Contractor's acceptance of Extra Payment for any Extra Work shall constitute an unconditional waiver and general release of the Owner of all claims and causes of action with respect to such Extra Work, whether asserted by the Contractor or through the Contractor on behalf of others.

Article X

Disputed Work

10.1 Notice. In the event the Owner or Engineer directs the Contractor to perform Disputed Work, the Contractor shall promptly and expeditiously perform such Disputed Work to completion. As a condition precedent to asserting any claim for Extra Payment with respect to such Disputed Work, the Contractor shall give written notice to the Engineer, prior to the Contractor's commencement of the Disputed Work, that the Contractor is performing such Disputed Work under protest.

10.2 Contents of Notice. The Notice shall state that the Contractor claims the work is Disputed Work and that the Contractor shall perform such Disputed Work under protest. The Notice shall also set forth in detail a description of the Disputed Work, the number of workdays the Contractor estimates necessary to complete the Disputed Work, and the specific grounds upon which the Contractor claims the Disputed Work should be considered Extra Work. The Contractor's failure to give timely written notice as herein provided shall constitute a waiver of all claims relating to such Disputed Work.

10.3 Time and Material Statement for Disputed Work. As a further condition precedent to the right to claim Extra Payment for performing such Disputed Work, the Contractor shall submit to the Engineer a signed Time and Material Statement for Disputed Work setting forth the items required in Article IX, Paragraph 9.7, on each day during which the Disputed Work was performed. Upon completion of the Disputed Work, the Contractor shall submit a final Time and Material Statement for Disputed Work

on the Friday of the last week in which Disputed Work was performed, setting forth the total dollar amount the Contractor will claim as Extra Payment for labor and materials. The Contractor's failure to submit timely signed and complete Time and Materials Statements for Disputed Work shall constitute a waiver of all claims relating to such Disputed Work. The Engineer, in its sole discretion, may accept an untimely or incomplete Statement but such acceptance shall not constitute any waiver of the Owner's right to strict enforcement of this provision or to disallow any claim for Extra Payment, and shall not relieve the Contractor of its obligation to comply with the provisions of this Article. The Contractor understands that the information contained in the Time and Material Statements for Disputed Work is to enable the Owner to monitor and verify the Disputed Work performed and to evaluate the Contractor's claims and shall not be binding on the Owner.

Article XI

Suspension of Work

11.1 Notice to Suspend Work. The Owner shall have the right to order the Contractor, upon written notice, to stop or suspend its Work and Extra Work at any time and for any reason. The Notice to Suspend Work shall specify the date on which the Work and Extra Work shall stop and may set forth an estimated date of resumption or may provide that the Work shall be suspended until further notice. The Contractor shall resume its Work and Extra Work upon the Owner's written Notice to Resume Work. The Contractor waives all claims for loss or damage by reasons of such suspension, and agrees that its rights to an Extension of Time, as provided in Paragraph 11.2 of this Article, and to elect to terminate, as provided in Paragraph 11.3 of this Article, shall constitute the Contractor's sole remedies in the event of suspension of work.

11.2 Extension of Time. The Contractor shall receive an Extension of Time to complete the

Contract corresponding to the number of days the Work is suspended unless the Owner determines that the suspension was necessary by reason of the Contractor's delay, defective or incorrect Work, failure to place timely orders for materials, equipment, services or labor, or other failure to comply with the Contract.

11.3 Contractor's Election to Terminate. If, pursuant to a Notice to Suspend Work issued by the Owner, the Work is suspended for a period exceeding one hundred twenty (120) days or for a period exceeding in the aggregate one hundred eighty (180) cumulative days by reasons of two or more Notices to Suspend Work, the Contractor may elect to terminate the Contract by giving written notice to the Owner. The Contractor's right and obligation to perform the Work shall terminate upon the Owner's receipt of the Contractor's Notice of Election to Terminate. Following receipt of the Contractor's Notice of Election to Terminate, the Owner shall pay to the Contractor all sums unpaid and owing pursuant to duly submitted Requisitions less amounts retained or withheld pursuant to this Contract. The Contractor's Notice of Election to Terminate shall constitute a waiver and release of all claims and causes of action against the Owner and Engineer except for sums unpaid and owing pursuant to duly submitted Requisitions, sums retained or withheld pursuant to this Contract, and Extra Payment for alleged Disputed Work for which the required Notice and Time and Materials Statements for Disputed Work were duly submitted and which have not been the subject of a Final Determination by the Engineer as of the date of receipt of the Contractor's Notice of Election to Terminate.

11.4. Compliance with Article XV. The Contractor, upon giving Notice of Election to Terminate, shall comply with and perform the obligations provided in Article XV of this Contract.

Article XII

Interpretations and Disputes

12.1 In order to resolve disputes, avoid litigation, and promote the orderly and timely progress of

the Work, the Contractor and the Owner hereby authorize the Engineer to act as the arbiter and interpreter of the Contract and to determine all questions, whether of a legal or factual nature, arising thereunder, including without limitation:

- a. issues relating to the meaning, interpretation and scope of the Contract Drawings and Specifications and the other Contract Documents;
- b. issues relating to the performance, quantity, quality, acceptability, fitness and progress of the Work and compliance by the Contractor and its Subcontractors with the requirements of the Contract;
- c. issues relating to Change Orders, Extra Work and Disputed Work including without limitation:
 - whether any Disputed Work is Contract Work or Extra Work;
 - whether the Contractor is entitled to Extra Payment by reason of any Change Order and the amount of any such Extra Payment; and
 - (i) whether the Owner is entitled to a reduction in the Contract Price by reason of any Change Order, and the amount of such reduction in the Contract Price;
- d. issues relating to the Contractor's completion of the Work in accordance with the Contract and Final Punch List;
- e. issues relating to the suspension of the Work;
- f. issues relating to the termination of the Contractor.

12.2 Duty to Notify. In the event the Contractor believes that any discrepancy, inconsistency, error or omission exists under any of the Contract Documents, or if the Contractor disputes any written order or notice of the Engineer or Owner, the Contractor shall immediately inform the Engineer and shall

also submit to the Engineer a written notice of the dispute or a written request for interpretation, within three (3) days of the date the Contractor receives the order or notice in dispute or discovers or should have discovered the discrepancy, inconsistency, error or omission, as the case may be.

12.3 Contents of Notice. Each notice of dispute or request for interpretation must specify in reasonable detail:

- (a) the nature of the Contractor's dispute with a description of Disputed Work, if any, or the information or interpretation requested by the Contractor;
- (b) the date by which the Contractor requires a determination; and
- (c) the Contractor's proposal to resolve the problem or resolve the dispute.

The Contractor shall include with the Contractor's notice or request all documents and other information which the Contractor deems relevant. The Contractor shall furnish promptly any additional information which the Engineer requests in connection with any such matter. The Engineer may reject the Contractor's notice or request if, in the Engineer's judgment, such notice or request is not sufficiently detailed.

12.4 The Engineer shall review each matter submitted hereunder and deliver a Final Determination to the Contractor within thirty (30) days which sets forth the Engineer's reasons for such Final Determination and, if the Final Determination involves computation of a monetary amount, the method of such computation.

12.5 The Engineer's Final Determination shall be final, conclusive and binding.

12.6 The Contractor's failure to submit a matter in timely fashion to the Engineer under this Article shall be a waiver of any claim for Extra Payment, extension of time, and all loss or damage relating to the particular matter.

Article XIII

Default

13.1 Grounds for Default. The Owner may declare the Contractor to be in default of this Contract upon the occurrence of any of the following events:

- (a) The Contractor fails to commence Work on the Commencement Date, unless by reason of an Excusable Delay;
- (b) The Contractor abandons the Work;
- (c) The Contractor refuses to proceed with the Work when directed by the Engineer or the Owner;
- (d) The Contractor reduces its work force to a number which, if maintained, would be insufficient, in the Engineer's opinion, to complete the Work in accordance with the Progress Schedule;
- (e) The Contractor assigns this Contract, or Contractor's rights or obligations hereunder, except as permitted under Article XXVI hereof;
- (f) The Contractor fails to obtain and maintain all required insurance;
- (g) The Contractor has failed to propose Subcontractors on a timely basis or to award Subcontracts after approval;
- (h) The Contractor has willfully or in bad faith violated any of the provisions of this Contract or has not been performing the Contract in accordance with its requirements; or
- (i) The Work cannot be completed on or before the scheduled Completion Date, or revised Completion Date unless by reason of an Excusable Delay;
- (j) The Contractor does not complete the Work on or before the scheduled Completion Date, unless by reason of an Excusable Delay;

- (k) Any lien is asserted against the Owner by any Subcontractor or Material man or others and not discharged, by bonding or otherwise, within thirty (30) days after written notice from the Owner to the Contractor;
- (l) The unpaid balance of the Contract Price is clearly insufficient, in the Engineer's opinion, to complete the Work or to pay all known liens;
- (m) The Contractor fails to perform or observe any other term, covenant, condition or provision of the Contract for three (3) days after receipt of written notice from the Engineer or the Owner specifying the nature of the Contractor's failure;
- (n) The Contractor consents to or suffers the appointment of a receiver of all or a material part of the Contractor's property or income; or admits in writing the Contractor's inability to pay debts as they become due; or makes a general assignment for the benefit of creditors; or files a voluntary petition in bankruptcy, or a petition seeking reorganization or an arrangement with creditors under any federal or state law relating to bankruptcy, reorganization, insolvency, readjustment of debt, dissolution or liquidation or similar relief or files an answer admitting the material allegations of a petition filed against Contractor in any proceeding under any such law; or is adjudicated insolvent or is subject to an involuntary petition in bankruptcy, and such adjudication or filing is not set aside or terminated within thirty (30) days;
- (o) An attachment is levied or a judgment is executed against all or any material part of the Contractor's property or income and the same is not discharged within thirty (30) days;
- (p) Any statement or representation of the Contractor in the Contract or in any

document submitted by the Contractor with respect to the Contractor, its officers, principal employees, its proposal, the Work, the Project, or the Contract was untrue or incorrect when made;

- (q) Any Work is attached, levied upon, seized in any legal proceedings, or held by virtue of any encumbrance;
- (r) The Contractor or its chairman or president, or any vice president, treasurer, or shareholder owing more than five percent (5%) of the Contractor's issued and outstanding capital stock, or the sole proprietor of the Contractor or any general partner or joint venturer of the Contractor or the chairman, president, any vice-president, treasurer or shareholder owing more than five percent (5%) of the issued and outstanding capital stock is finally determined to be guilty of a felony related or pertaining to the business activities of the Contractor; or
- (s) a duly convened governmental body determines the Contractor to be not responsible.

13.2 Upon the Owner's determination that the Contractor is in default, the Owner shall issue a written Notice of Default to the Contractor. The Notice of Default shall specify the date of the determination of Default and the grounds upon which such Default is based.

13.3 Pursuant to the Owner's determination of Default, the Owner may do any or all of the following, in any sequence, in the Owner's discretion upon three (3) days prior written notice to the Contractor (or without notice in case of emergency):

- (a) terminate the Contractor's right to perform all or any part of the Work to the extent specified by the Owner in such notice;
- (b) at the Contractor's sole expense, take all reasonable actions which the Owner

deems necessary or desirable to cure all or any portion of such Default. For this purpose, the Owner may:

- (i) take possession of and use to the extent permitted by law any or all materials, tools, plant, equipment, supplies and/or facilities used or to be used by Contractor for the Work;
- (ii) employ any contractor, architect, engineer, consultant, or other person on terms satisfactory to the Owner to advise and consult, or to furnish services, labor, materials, tools, plant, equipment, supplies, and/or facilities of any kind to complete the Work, to replace or repair any defective Work, or otherwise to cure such Default;
- (iii) repair or replace any other Work or part of the Project, or work of other prime contractors, damaged or removed by reason of Contractor's Default, or the curing and correction thereof;
- (iv) compel the Surety to perform Contractor's obligations under the Contract, upon giving thirty (30) days written notice to the Surety.

13.4 Upon a determination by the Owner that the Contractor is in Default, the Contractor shall be liable to the Owner for all loss, damages and expenses suffered, paid or incurred by the Owner relating to any and all action described in Paragraph 13.3 of this Article. Such loss, damages and expenses arising by reason of the Contractor's Default are referred to as "Default Expenses".

13.5 The Owner shall determine the amount of the Default Expenses from time to time and:

- (a) to the extent the Default Expenses exceed the portion of the Contract Price attributable to Work being performed by others under Paragraph 13.3 of this Article, such excess amount shall be deducted from any unpaid balance of the

Contract Price, and the Contractor shall pay the Owner, upon demand, any amount exceeding the unpaid balance of the Contract Price; and

- (b) upon Final Completion of the Work, but only to the extent the total Default Expenses and total amounts withheld pursuant to this Contract are less than the unpaid balance of the Contract Price, the Owner shall pay the Contractor any balance of the Contract Price still due and unpaid for Work actually performed by the Contractor, without interest, on condition the Contractor has complied with all requirements of Article XV and after audit by the Owner.

13.6 Continuing Liability. The Contractor and the Surety shall remain liable under the Contract and Bond whether or not the Owner terminates Contractor's right to perform all or any part of the Work.

13.7 If the Owner terminates the Contractor's right to perform the Contract and it is determined subsequently for any reason whatsoever that a Default did not occur or that the Contractor had cured such Default in a timely manner, then the Owner's termination of the Contractor's right to perform the Contract shall be deemed to have been an elective termination of the Contract pursuant to Article XIV.

13.8 The rights and remedies of the Owner under this Article are not intended to be exclusive. Each and every right and remedy shall be cumulative and shall be in addition to all other rights and remedies given the Owner under this Contract or available at law or in equity.

Article XIV

Elective Termination by the Owner

14.1 Notice of Termination. The Owner may terminate the Contractor's right and obligation to perform all or any portion of the Work, at any time and for any reason whatsoever, with or without cause, upon written Notice of Termination to the Contractor. Such Notice of Termination shall specify the effective date of such termination and the extent to which performance of the Work is terminated.

14.2 Payment in the Case of Termination. Following termination, the Owner shall pay the Contractor all unpaid balance due for Contract Work and Extra Work, less amounts retained and withheld, upon the condition that the Contractor has complied fully with all the requirements of Article XV and after audit by the Owner. The Contractor waives any and all claims for damages relating to or arising out of such termination.

14.3 Post-Termination. After the effective date of termination, the Owner may take all action necessary or desirable to complete the Work, including entering into contracts with other contractors, with or without public bidding to the extent allowed by law.

Article XV

Contractor's Obligations Upon Termination

- 15.1 Upon termination pursuant to Articles XIII or XIV, the Contractor shall promptly:
- a. Stop all Work on the date and to the extent directed by the Owner;
 - b. Take all action necessary to protect the Work and materials, equipment, and other property;
 - c. Deliver to the Engineer upon request copies of all Subcontracts, purchase orders, bills of lading and bills of sale of materials incorporated into the Project, fabricated or delivered;
 - d. Give written notice to the Contractor's sureties and insurers of the termination, with a copy of each such notice to the Owner;
 - e. Terminate all Subcontracts and purchase orders;
 - f. Transfer or assign to the Owner all legal right, title and interest in materials incorporated into the Project, fabricated or delivered and for which payment has been made by the Owner;

- g. Deliver to the Engineer all documents, including without limitation shop drawings, required to be furnished to the Owner pursuant to this Contract.

Article XVI

Delay

16.1 Extensions of Time. To the extent that the Contractor is prevented from performing the Work in a timely manner and as represented in the Progress Schedule through no fault of the Contractor and due to causes beyond the Contractor's reasonable control such as acts of God, unforeseeable conditions, utility failures, fire, flood, explosion, Owner delays, or delays caused by other prime contractors, the Contractor shall be entitled to an extension of the scheduled Completion Date equal to the actual time so lost on condition that Contractor complies fully with the provisions of this Article.

16.2 Requests for Extension of Time. As a condition to obtaining an Extension of Time, the Contractor shall give written notice to the Engineer within three (3) days after the commencement of the delay. Such notice shall contain a request for an extension of time and shall also state:

- a. the nature of the delay;
- b. the cause of the delay;
- c. the Work affected by the delay;
- d. the date the delay started;
- e. the effect of the delay on the Progress Schedule; and
- f. the actions taken and proposed by the Contractor to mitigate or lessen the impact of the delay.

16.3 Contractor assumes exclusive responsibility for submitting all the information specified above. The Contractor shall furnish promptly all additional documents or other information relating to the

alleged delay upon request of the Engineer or the Owner.

16.4 The Contractor's failure to give the required notice in a timely and complete manner as required shall constitute a waiver of any right to an Extension of Time.

16.5 The Contractor shall not be entitled to a separate Extension of Time for each of several causes of delay operating concurrently, but only for the actual total period of delay, as determined by the Engineer, irrespective of the different concurrent causes of such delay. If one of several causes of delay operating concurrently results from any fault, inaccuracy, error, act or omission of the Contractor, and would of itself (irrespective of the other concurrent causes) have delayed the Work, the Contractor shall not be entitled to receive any Extension of Time for such delay.

16.6 The Contractor shall receive no extension of time for any delay in the Work which will not result in a delay in the scheduled Completion Date.

16.7 Subject to the foregoing, if the Contractor is entitled to any requested Extension of Time, the Owner shall issue a Change Order specifying the duration of any such permitted extension.

16.8 Contractor's Waiver of Delay Damages. The Contractor acknowledges and agrees that the Owner seeks to promote fiscal stability and protect the integrity of the public bidding process by ascertaining, prior to the award of this Contract, the full cost of the Work in order to assure, to the extent possible, that the lowest responsible bid for this Work reasonably corresponds to what the public will actually pay. The Contractor understands that delays are common to public improvement projects such as this, and that changes in the Contract, Design, Drawings and Specifications may occur and may require extensive and lengthy reviews by various public authorities and may undergo a lengthy approval process. The Contractor is advised, therefore, that this public improvement project is complex and may be subject to delays. Accordingly, the Contractor agrees to make no claim whatsoever against the Owner, its employees, agents or representatives on account of any delay in the performance of the Work or any other obligation of

the Contractor under this Contract, including any delay caused by or resulting from any act or omission of the Owner, its employees, agents and representatives. In appropriate circumstances, as provided herein, the Contractor may be entitled to an Extension of Time in which to complete its performance of the Work. The Contractor nonetheless agrees that, whether or not it is granted an Extension of Time, the Contractor waives any and all right to claim damages for delay, and represents that it has taken into consideration the risk of loss and damage from delay in preparing and submitting its bid, and assumes all risk of loss therefrom.

16.9 Discretionary Allowance of Escalation Costs. Notwithstanding any provision in this Article, the Owner may, in its sole and absolute discretion, issue the Contractor a Change Order for Extra Payment to reimburse the Contractor for escalation in labor rates and material prices incurred by the Contractor by reason of an Excusable Delay, on condition that the Contractor shall have complied fully with the requirements and conditions for obtaining an Extension of Time and shall have furnished to the Engineer and to the Engineer's satisfaction proof of such escalation costs. The Contractor shall in no event be entitled to reimbursement for increased costs due to overhead, labor inefficiency or to any profit on the amount of such increased costs. The granting of any such Change Order shall not be deemed a waiver of any of the Owner's rights under this Contract or of any condition to be fulfilled by the Contractor.

Article XVII

Substantial Completion

17.1 The Contractor shall have achieved Substantial Completion of its Work when all of the conditions set forth in this Article have been met to the satisfaction of the Owner and Engineer.

17.2 Statement of Substantial Completion. The Contractor shall submit to the Engineer a signed, notarized Statement of Substantial Completion in which the Contractor certifies that:

- a. all Work and Extra Work, excepting the items on the Final Punch List and any close-out requirements, are complete and in all respects in compliance with the

Contract;

- b. all equipment and machinery, if any, furnished by the Contractor are operational and in good working order;
- c. all utilities specified or required under the Contract are connected and functioning properly;
- d. The Contractor shall achieve Final Completion, including completion of all Final Punch List items and close-out requirements, on or before a date certain ("Final Completion Date").

17.3 Statement of Claim. Simultaneously with its Statement of Substantial Completion, the Contractor shall submit to the Engineer a signed, notarized Statement of Claim setting forth in detail all claims asserted by the Contractor against the Owner, if any, relating to Work or Extra Work performed to the date of the Statement of Claim. Such Statement of Claim shall identify separately each such item of Work and Extra Work for which a claim is made; the dollar amount claimed and quantity of material supplied if applicable; and the date each such item of Work or Extra Work was completed or furnished. In the case of Extra Work, the Contractor shall state whether the Extra Work was authorized by the Engineer in writing and shall attach a copy of such authorization or applicable Change Order, as well as all Time and Material Statements if applicable. The Statement of Claim shall also identify all claims asserted by the Contractor on behalf of its Subcontractors and Material men.

17.4 Drawings. The Contractor shall submit, prior to or simultaneously with its Statement of Substantial Completion, a set of as-built (or record) drawings and all manufacturers' warranties and guarantees as required under the Contract Documents (unless the Contract Documents allow the Contractor to submit such drawings, warranties and guarantees prior to Final Completion).

17.5 Temporary Certificate of Occupancy. If a Certificate of Occupancy is required for

occupation of the Project, a temporary Certificate of Occupancy has been issued covering the whole of the Project.

17.6 Request for Final Punch List. Prior to submittal of its Statement of Substantial Completion, the Contractor shall request the Engineer in writing to prepare the Final Punch List setting forth those deficiencies which remain to be corrected or supplied. The Engineer shall prepare and furnish to the Contractor such Final Punch List. The Engineer may furnish the Final Punch List to the Contractor prior to the Contractor's request therefor.

17.7 Rejection and Approval. Upon receipt of the Contractor's Statement of Substantial Completion, the Engineer shall verify whether the Contractor has met all the conditions of Substantial Completion, and whether, in the Engineer's opinion, the Statement and information therein are correct and accurate. The Engineer may accept or reject such Statement as submitted in whole or in part and shall so notify the Contractor. In the case of rejection, the Engineer may direct the Contractor to correct or remedy deficiencies or errors and the Contractor shall promptly comply and submit one or more revised Statements as required by the Engineer. Upon approval of the Statement of Substantial Completion and verification that the Contractor has met all required conditions, the Engineer shall deliver to the Owner with a copy to the Contractor its certification that the Contractor has achieved Substantial Completion. The Engineer's acceptance and certification are for fiscal and record keeping purposes and shall not in any way constitute a waiver of any right of the Owner to assert any claims for loss, damage, reimbursement or indemnification against the Contractor, Engineer or any other party.

17.8 Substantial Completion Requisition. Following receipt of the Engineer's Certification of Substantial Completion, the Contractor may submit to the Engineer a Substantial Completion Requisition for the remaining balance of the Contract Price less amounts to be retained pursuant to this Contract. After receipt of a proper Substantial Completion Requisition satisfactory to the Engineer, the Engineer will

prepare and certify, and the Owner will approve, a voucher for payment of the unpaid balance, less two times the value as determined by the Engineer of all remaining items to be completed and an amount necessary to satisfy any claims, liens or judgments against the contractor which have not been suitably discharged, and any amounts withheld under Article XX. The voucher will be filed with Orange County Community College, with a copy available to the Contractor upon request. The Owner will pay the Contractor the amount specified in the voucher after the filing of such voucher in the Orange County Community College office.

17.9 Waiver and Release. The Contractor's acceptance of payment hereunder shall be construed as a complete, unconditional and general release of the Owner by the Contractor, and all persons claiming by, through or under the Contractor with respect to all claims for loss or damages relating to, or arising out of, this Contract or the Work, except for:

- a. unresolved claims set forth in the Statement of Claim pursuant to Paragraph 17.3 of this Article submitted by the Contractor and any claim arising out of or relating to Work performed by the Contractor after the Contractor's submittal of such Statement; and
- b. The Contractor's claims against the Owner for any amount then withheld pursuant to this Article. Nothing herein shall be construed as a right to revive any claims waived by the Contractor under other provisions of the Contract.

17.10 Owner's Discretion. Notwithstanding any of the above provisions, the Owner has the discretion to waive any of the above conditions upon which the Contractor's entitlement to Substantial Completion or payment therefor is based.

Article XVIII

Early or Partial Acceptance

18.1 Owner's Right to Early Occupation. At any time, whether before or after Substantial Completion, the Owner shall have the right to enter and occupy the Project Site, including any area in which the Work is being performed, for any reason whatsoever, including use and occupancy, any emergency, or the installation of any equipment, fixtures, or other property of any kind. Any occupancy by the Owner hereunder shall not constitute the Owner's acceptance of the Work, or Substantial Completion or Final Completion, and shall not otherwise relieve the Contractor of any responsibility under the Contract except as otherwise specified in this Article.

18.2 Partial Acceptance. At any time prior to Substantial Completion of all the Work, the Owner may elect, in the Owner's judgment, to certify any portion or phase of the Work as substantially complete. The Owner shall exercise such election by written Certificate of Partial Acceptance to the Contractor which:

- a. describes the portion accepted;
- b. states the portion of the Contract Price and the amount of retainage (if any) allocable to the portion accepted; and
- c. includes a Final Punch List for the accepted portion.

18.3 Partial Substantial Completion. Within thirty (30) days of delivery of the Owner's Certificate of Partial Acceptance, the Contractor may submit a Statement of Claim in conformity with Paragraph 17.3 and a Requisition for Substantial Completion as to the portion accepted in conformity with Paragraph 17.8. The terms and conditions set forth in Paragraphs 17.3, 17.4, 17.8, 17.9 and 17.10 shall apply with the same force and effect with respect to any Certification of Partial Acceptance, Statement of Claim and requisition for Substantial Completion thereunder.

18.4 The Owner's Certification of Partial Acceptance shall constitute, with respect to the portion in question, Substantial Completion for all purposes of the Contract except that, if the Owner commences

beneficial use and occupancy (and not mere testing) of the portion accepted before Final Completion, the Guarantee Period specified in Article XX shall commence, with respect to the portion accepted, on the date when the Owner commences such beneficial use and occupancy.

Article XIX

Final Completion

19.1 The Contractor shall have achieved Final Completion of its Work when all of the conditions set forth in this Article have been met to the satisfaction of the Owner and Engineer.

19.2 Statement of Final Completion. The Contractor shall submit to the Engineer a signed, notarized Statement of Final Completion in which the Contractor certifies that:

- a. all Work and Extra Work, including all the items on the Final Punch List and any close-out requirements, are complete and in all respects in compliance with the Contract;
- b. all equipment and machinery, if any, furnished by the Contractor are operational and in good working order;
- c. all utilities specified or required under the Contract are connected and functioning properly.

19.3 Statement of Claim. Simultaneously with its Statement of Final Completion, the Contractor shall submit to the Engineer a signed, notarized Statement of Claim setting forth in detail all claims asserted by the Contractor against the Owner, if any, relating to Work or Extra Work performed to the date of the Statement of Claim. Such Statement of Claim shall identify separately each item of Work and Extra Work for which a claim is made; the dollar amount claimed and quantity of material supplied if applicable; and the date such item of Work or Extra Work was completed or furnished. In the case of Extra

Work, the Contractor shall state whether the Extra Work was authorized by the Engineer in writing and shall attach a copy of such authorization or applicable Change Order, as well as all Time and Material Statements if applicable. The Statement of Claim shall also identify all claims asserted by the Contractor on behalf of its Subcontractors and Material men.

19.4 Drawings. The Contractor shall submit, prior to or simultaneously with its Statement of Final Completion, a set of as-built (or record) drawings and all manufacturers' warranties and guarantees as required under the Contract Documents.

19.5 Certification of Final Completion. Upon receipt of the Contractor's Statement of Final Completion, the Engineer shall verify whether the Contractor has met all the conditions of Final Completion and whether the Statement and information therein are correct and accurate. The Engineer may approve such Statement as submitted in whole or in part and shall so notify the Contractor. In the case of rejection, the Engineer may direct the Contractor to correct or remedy deficiencies or errors and the Contractor shall promptly comply and submit one or more revised Statements as required by the Engineer. Upon approval of the Statement of Final Completion and verification that the Contractor has met all required conditions, the Engineer shall deliver to the Owner with a copy to the Contractor its certification that the Contractor has achieved Final Completion. The Engineer's approval and certification are for fiscal and record keeping purposes and shall not in any way constitute a waiver of any right of the Owner to assert any claim for loss, damage, reimbursement or indemnification against the Contractor, Engineer or any other party.

19.6 Certificate of Occupancy. As a further condition to Final Completion, all governmental authorities having jurisdiction over the Project shall have inspected the Work and the Project and unconditionally authorized occupancy of the entire Project, and shall have issued all required permanent Certificates of Occupancy and all other permits, licenses, or certificates required for occupancy and the intended use.

19.7 Final Payment. The Contractor shall submit a Requisition for Final Payment simultaneously with its Statement of Final Completion. After receipt of a proper Requisition for Final Payment satisfactory to the Engineer, the Engineer will prepare and certify, and the Owner will approve, a voucher for payment, less all amounts necessary as determined by the Engineer to satisfy any claims, liens or judgments against the contractor which have not been suitably discharged, and all amounts withheld under Article XX. The voucher will be filed with Orange County Community College, with a copy available to the Contractor upon request. The Owner will pay the Contractor the amount specified in the voucher after the filing of such voucher in the Orange County Community College office. Such Final Payment shall constitute Final Acceptance of the Work.

19.9 Waiver and Release. The Contractor's acceptance of Final Payment (or the Contractor's failure to submit a Requisition for Final Payment and Statement of Claim as required in this Article within ninety (90) days after issuance of written notice to the Contractor of the Owner's determination that Final Completion has occurred) shall be construed as the Contractor's complete, unconditional and general release of the Owner by the Contractor (and all persons claiming by, through and/or under the Contractor) relating to all claims for loss and damage relating to, or arising out of, this Contract or the Work, except for:

- a. unresolved claims set forth in the Contractor's Statements of Claim;
- b. the Contractor's claim for amounts still withheld. Nothing herein shall be construed as a right to revive any claim previously waived by the Contractor under other provisions of the Contract.

19.10 Owner's Discretion. Notwithstanding any of the above provisions, the Owner has the discretion to waive any of the above conditions upon which the Contractor's entitlement to Final Completion or payment therefor is based.

Article XX

Correction of Work, Guarantee, and Maintenance Bond

20.1 The Contractor guarantees unconditionally to complete, repair, replace, restore, rebuild and correct promptly all Work which is incorrect, defective, omitted, or does not otherwise comply with the Contract, of which the Engineer or the Owner gives the Contractor written notice at any time during the Guarantee Period. "Guarantee Period" means the period beginning on the commencement date set forth in the Notice to Proceed and continuing:

- (a) through and until two (2) years after Final Completion; and
- (b) with respect to any Work repaired, replaced, restored or rebuilt by Contractor after Final Completion, through and until two (2) years after the completion of the applicable corrective action.

20.2 If the Contractor fails to commence required corrective action hereunder within three (3) days after written notice from the Engineer, or if the Contractor does not thereafter perform diligently and complete its corrective work, the Owner may undertake the necessary corrective work itself; and the Contractor shall bear all costs of such corrective work; or, at the Owner's election, the Owner may require the Surety to take corrective action under the Performance Bond, or Maintenance Bond where applicable.

20.3 The costs of corrective work referred to herein shall include the following:

- (a) all amounts paid by the Owner to any Contractor, consultant, or other person engaged by the Owner to advise, consult, or furnish labor, materials, services or equipment of any kind necessary (in the Owner's judgment) to perform the corrective Work;
- (b) all costs of correcting, repairing or replacing any other Work or part of the Project, or work of any other prime contractor, damaged, removed, or uncovered by reason of the Contractor's defective or omitted Work;

- (c) all costs of removing rejected Work from the Site; and
- (d) all loss, expenses and damages which the Owner incurs in connection with the foregoing.

20.4 The Owner or the Engineer may elect, by Change Order, to accept defective or non-conforming Work and charge the Contractor for the amount by which the value of the Work has been reduced, as determined by the Engineer.

20.5 The Guarantee Period specified herein establishes only the Contractor's specific obligation to correct the Work and shall not be construed to establish a period of limitation with respect to any other obligations or liabilities of Contractor under the Contract. This Article XX is intended to supplement and not to limit the Contractor's obligations under other provisions of the Contract.

20.6 Any amounts for which the Contractor is responsible hereunder shall be deducted from the unpaid balance of the Contract Price and the Contractor shall pay to the Owner upon demand any amount owing hereunder which exceeds the unpaid balance of the Contract Price.

20.7 The Contractor shall secure from the manufacturers of all equipment and materials required under the Contract such manufacturers' standard warranties and guarantees (or such other warranties and guarantees as the Specifications may require) in the name of the Owner and shall deliver the same to the Engineer.

20.8 To the extent that the Contractor has performed the Contractor's obligations under this Article, the Owner shall so certify after the expiration of the Guarantee Period.

Article XXI

Books and Records and Right of Audit

21.1 All payments whatsoever by the Owner to the Contractor with respect to the Contract, and

all Work of the Contractor and all Subcontractors, shall be subject to audit by the Owner at any time, whether before or after Final Completion.

21.2. The Contractor and all Subcontractors shall, upon written notice from the Owner, produce for examination and copying at the Contractor's, or the applicable Subcontractor's, office, by representatives of the Owner, any and all books and records as specified in Paragraph 21.3. Moreover, the Contractor, every Subcontractor, and their employees shall submit to examination under oath by any person designated by the Owner to investigate claims against the Owner, possible overpayments to the Contractor, or any other matters with respect to this Contract.

21.3 In this Contract, "Books and Records" means any and all books of account, bills, vouchers, invoices, payrolls, payroll reports, cost estimates and bid computations and analyses, pre-bidding worksheets, take-offs, and quotations from prospective Subcontractors, Subcontracts, purchase orders, time books, logs, daily job diaries and reports, periodic cost analyses kept during the course of the Work, bank deposit books, bank statements, check books, canceled checks, correspondence, and all other documents showing acts and transactions or relating to or arising out of the Work, this Contract, or any Subcontract.

21.4 The Contractor shall keep and maintain all books and records for at least six (6) years after Final Completion.

21.5 If the Contractor and its Subcontractors do not comply with Paragraphs 21.2 and 21.4 of this Article, the Owner shall be released from all claims arising under or relating to this Contract, except for sums certified by the Owner to be due under the Contract. No person has power to waive any provision of this Article; and in any legal proceeding against the Owner to recover any sum in excess of the sums certified by the Owner to be due under this Contract, the Contractor must allege in the Contractor's complaint, and prove at trial, the Contractor's compliance with this Article.

21.6 In addition to the foregoing, after commencement of any legal proceeding by the

Contractor arising under or by reason of this Contract, the Owner shall have the right upon written notice from the Owner's attorneys to require the Contractor under oath to produce all or any books and records for examination and to cause any officers, principals and employees of the Contractor to be examined under oath by the Owner's attorneys. The Contractor agrees that service of a subpoena for any such purpose shall be effective by mailing to the Contractor or any of its officers or principals by certified mail, return receipt requested to the address specified in this Contract therefor, or if such address ceases to be valid, to the party's last known address.

Article XXII

Liquidated Damages

22.1 If the Contractor fails to complete the Work on or before the scheduled Completion Date (as may be extended in accordance with Article XVI), the Contractor shall owe the Owner the amount specified in the Information for Bidders for each and every calendar day beyond such scheduled Completion Date until the occurrence of Substantial Completion to compensate the Owner for the delay suffered in obtaining beneficial use of the Work. The Contractor agrees that the Owner's actual damages for delay in obtaining beneficial use of the Work would be difficult or impossible to ascertain and that such amount constitutes a fair and reasonable amount of damages for the Owner's loss of beneficial use.

22.2 The Owner shall deduct any amounts owing to the Owner under this Article from any unpaid balance of the Contract Price, and the Contractor shall pay to the Owner, upon demand, any amount for liquidated damages, which exceeds the unpaid balance of the Contract Price.

22.3 This Article is intended to supplement (and not to restrict) all other rights and remedies of the Owner under the Contract. This Article is not intended, and shall not be construed, to limit the Owner's right to claim actual damages.

Article XXIII

Legal Proceedings by the Contractor

23.1 Limitation Period. The Contractor agrees that it must commence any and all legal proceedings of whatever nature against the Owner, Engineer, or their representatives, agents, officers and employees, no later than one calendar year following:

- a. Substantial Completion, with respect to claims arising out of or relating to Work or Extra Work performed, or events occurring, prior to Substantial Completion;
- b. Final Completion, with respect to claims arising out of or relating to Work or Extra Work performed, or events occurring, prior to Final Completion;
- c. Termination pursuant to Articles XIII and XIV.

23.2 Attorney's Fees and Legal Costs and Expenses. In the event that the Contractor commences any legal proceeding against the Owner seeking money damages arising out of or relating to the Work, the Contract or the Project, and the Owner thereafter makes a written offer of payment to the Contractor to settle such legal proceeding, and the Contractor does not accept in writing the Owner's offer of payment within thirty (30) calendar days of receipt thereof (unless otherwise extended in writing by mutual consent) and continues to prosecute the legal proceeding to a judgment or final determination, then the Contractor shall pay the full amount of the Owner's reasonable attorney's fees, legal costs and expenses if the Contractor recovers a judgment or final determination against the Owner for an amount (exclusive of interest) less than the amount offered by the Owner to settle. Furthermore, the Contractor shall pay the full amount of the Owner's reasonable attorney's fees, legal costs and expenses, whether or not the Owner made any written offer of settlement, if the Owner obtains a judgment or final determination dismissing the legal proceeding.

Article XXIV

Insurance

24.1 Required Insurance. "Required Insurance" means each and every insurance coverage and policy specified in this Article. Unless the Owner specifies otherwise, the Contractor, at its sole cost and expense, shall obtain and maintain in full force and effect all Required Insurance from the Contract Date through Final Completion and otherwise during any period when the Contractor or any Subcontractor is performing any work. The minimum periods and the minimum limits of coverage are not intended, and shall not be construed, to limit any liability or obligation of indemnity of the Contractor under this Contract.

If Contractor fails to pay any premium for Required Insurance, or if any insurer cancels or modifies any Required Insurance without the Owner's consent, the Owner at its discretion may pay such premium or procure similar insurance coverage from the same or another insurer, and the Owner may deduct the entire cost or any part thereof from the Contract Price, or the Contractor shall pay the entire cost of any part thereof upon demand. The Contractor shall not perform Work, or allow any of Contractor's or Subcontractor's employees on the Site, during any period when any policy of Required Insurance is not in effect.

24.2 Workers' Compensation. The Contractor shall take out and maintain during the life of the Contract Workers' Compensation Insurance in conformity with the provisions of the Workers' Compensation Law of the State of New York, for all Contractor's employees engaged in work under this Contract, and in case any such work is sublet, the Contractor shall require all subcontractors engaged in work under this Contract to provide similar statutory Workers' Compensation and Employer's Liability Insurance. This Contract shall be void and of no effect unless the person or corporation making or executing same shall secure compensation and disability benefits coverage for employees in compliance with the provisions of the Workers' Compensation Law.

24.3 Commercial General Liability. The Contractor shall furnish a Contractor's Commercial General Liability Policy in the name of and for the benefit of the Owner, protecting the Owner, its agents

and employees, its officers, agents and employees from any and all claims, liability for personal injury (including death) and property damage to anyone arising out of the operations of the Contractor and all Subcontractors under this Contract. Blasting shall also be covered under said policy. The limits for this coverage, as to personal injury as well as to property damage, shall be in an amount no less than \$1,000,000 for each person and \$3,000,000 for each occurrence. The Contractor shall also furnish a Commercial General Liability policy for damage coverage in its own name identical to that provided for the Owner, protecting it from the operations of its Subcontractors under this Contract in an amount no less than \$1,000,000 for each person and \$3,000,000 for each occurrence.

24.4 Commercial Automobile Liability and Physical Damage. The Contractor shall furnish Bodily Injury Liability and Property Damage Liability insurance covering all automotive equipment used by it on this Contract with a limit of no less than \$1,000,000 combined single limit for Bodily Injury and Property Damage.

24.5 Builder's Risk. The Contractor shall carry Builder's Risk (fire and extended coverage) Insurance upon all work in place and/or materials stored at the construction site, including foundations and building at the construction site, and including building equipment. The insurance shall be for the benefit of the Contractor and the Owner as an additional insured, and each shall be named in the policy, or policies, as an insured. The policy shall furnish coverage at all times for the full replacement cost value of all completed construction, as well as materials in place and/or stored at the site, whether or not partial payment has been made by the Owner.

24.6 Proof of Coverage. Insurance certificates indicating proof of coverage of the required insurance shall be furnished in the name of the Owner and for all of the insurance required under this Contract, and certificates and the policies shall provide that the certificates and the policies cannot be changed or cancelled until 30 days written notice has been given to the Owner.

The insurance required shall be maintained in full force and effect during the performance of the Work. Two (2) copies each of these insurance certificates shall be furnished to the Owner by the Contractor at least ten (10) days prior to the commencement of any Work under this Contract. The original and one copy of the Owner's Commercial General Liability Insurance Policy shall be delivered to the Owner. All policies shall contain an endorsement to the effect that the Owner shall not be responsible for payment of any premium.

ARTICLE XXV

Labor Law Requirements

25.1 Labor Law, Article 8. The Contractor shall comply with Article 8 of the Labor Law of the State of New York, the terms of which are referred to and incorporated as though set forth fully herein.

25.2 No laborer, worker or mechanic in the employ of the Contractor, Subcontractor, or other person performing the Work or any part thereof shall be permitted or required to work more than eight (8) hours in any one calendar day or more than five (5) days in any one week except in cases of extraordinary emergency including fire, flood or danger to life or property.

25.3 Prevailing Wage Rates. Each laborer, worker and mechanic employed by the Contractor and its Subcontractors or other persons performing the Work or any part thereof shall be paid prevailing wages in accordance with Article 8 of the Labor Law. Each employee and person engaged in Work on this project, in the grade, or occupation listed on the Prevailing Wage Rate Schedule (Appendix A hereto), shall be paid not less than the wage rate so listed for that trade or occupation.

25.4 In the event it becomes necessary for the Contractor or any Subcontractor to employ on the project under this Contract any person in a trade or occupation (except executive, supervisory, administrative, clerical or other non-manual workers) for which no minimum wage rate is herein specified, the Contractor shall immediately notify the Owner, who will promptly thereafter furnish the Contractor with the minimum rate. The minimum rate thus furnished shall be applicable as a minimum for such trade or

occupation from the time of the initial employment of the person affected and during the continuance of such employment.

ARTICLE XVI

Miscellaneous

26.1 Patented and Copyrighted Material. The Contract Drawings, the Specifications, and all other documents forming part of the Contract and all drawings and shop drawings issued by the Owner or the Contractor in connection with this Contract or the Work shall be and shall remain the property of the Owner, whether or not the Owner completes the Project or terminates the Work or the Contract. The Owner shall own all patents and copyrights to all such material, including without limitation plans, drawings, designs, specifications, shop drawings, samples, studies, and surveys prepared by the Contractor, any Subcontractor, or the Owner relating to the performance of the Work, whether prior or subsequent to the Contract Date.

26.2 Notices. All notices, requests and demands required under this Contract shall be sent by hand or by certified mail, return receipt requested unless otherwise specified in this Contract, and shall be addressed to the Contractor or the Owner at their respective addresses as set forth in this Contract and to the Engineer as set forth in the Invitation to Bid. The Contractor shall promptly notify the Owner of all address changes.

26.3 Applicable Laws, Jurisdiction and Venue. This Contract shall be governed and construed under the laws of the State of New York. The parties consent to the jurisdiction of the Courts of the State of New York to resolve all disputes and claims arising out of or relating to this Contract. The parties agree that the venue of any and all litigation arising hereunder shall be in the County of Orange, New York.

26.4 Merger. This Contract embodies the entire agreement of the parties and supersedes all prior and contemporaneous representations, agreements and understandings relating to the subject matter

hereof, and any and all such prior and contemporaneous representations, agreements or understandings are deemed to be merged herein.

26.5 The Contractor agrees and represents that the Contractor shall make no claim and shall bring no action against any official or employee in his or her individual, personal capacity for any act, omission or statement made or done relating to or arising out of this Contract.

26.6 General Municipal Law § 109. The Contractor shall not assign, transfer or convey this Contract or any of its right, title or interest herein without the express prior consent in writing of the Owner.

26.7 A finding, ruling or determination that one or more of the provisions, terms or conditions in this Contract may be illegal or void shall not affect the validity of the remaining provisions, terms and conditions, which shall be severable and which shall be given their full force and effect.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

IN WITNESS WHEREOF, Orange County Community College has caused this agreement to be signed by
Paul Martland, VP of Administration & Finance, pursuant to a resolution of authorization by said Orange
County Community College on the _____ day of _____, 2026, and the
Contractor has hereunto set his hand and seal this _____ day of _____, 2026.

By: _____

Title of Signatory: _____

Witness: _____

Contractor:

By:

X _____

Title of Signatory: _____

Witness: _____

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

STATE OF NEW YORK)
) SS:
COUNTY OF ORANGE)

On this _____ day of _____, 2026, before me the subscriber personally
appeared, to me known, and who, being by me duly sworn, did depose and say that he resides in
_____, and that he is the Supervisor of the Board of said _____;
that he knows the seal of said _____ and that the seal affixed to the foregoing
instrument is such seal; that the same was affixed thereto by the order of the Board of said
_____, and he signed his name hereto by like order.

Notary Public

ACKNOWLEDGEMENT OF PRINCIPAL, IF A CORPORATION

STATE OF NEW YORK)
) SS:
COUNTY OF ORANGE)

On this ____ day of _____, 2026, before me personally came and appeared _____, to me known, who, being by me duly sworn, did depose and say that he resides at _____, that he is the _____ of the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that one of the impressions affixed to said instrument is an impression of such seal; that it was affixed by order of the Directors of said corporation; and that he signed his name thereto by like order.

Notary Public

(CORPORATION SEAL)

ACKNOWLEDGEMENT OF PRINCIPAL, IF A PARTNERSHIP

STATE OF NEW YORK)
) SS:
COUNTY OF ORANGE)

On this_____day of _____, 2026, before me personally came and appeared_____

_____to me known to be one of the members of the firm of _____described in and

who executed the foregoing instrument; and he duly acknowledged to me that he executed the same as and

for the act and deed of said firm.

Notary Public

ACKNOWLEDGEMENT OF PRINCIPAL, IF AN INDIVIDUAL

STATE OF NEW YORK)
)
COUNTY OF ORANGE) SS:

On this _____ day of _____, 2026, before me personally came and appeared
_____ to me known to be the person described in and who executed
the foregoing instrument; and he duly acknowledged to me that he executed the same.

Notary Public

SECTION 01 1000 - SPECIAL CONDITIONS

1. GENERAL

The proposal consists of all labor, tools, materials and equipment required for the proposed work as outlined on the plans and in the specifications.

2. CONTRACTOR'S RESPONSIBILITY

The Contractor shall provide a competent person responsible for installation of the HVAC, Plumbing, Sprinkler, and Electrical systems in accordance with plans and specifications. The competent person shall be familiar with N.Y.S. Labor Dept. and OSHA Standards for worker safety and safe site conditions.

Contractor's Use of Premises: Contractor will have **limited** use of **building** during construction, as it shall be partially occupied by Administrative Personnel and students. Staging of work must be done in coordination with building owner for occupant convenience. Contractor's use of premises is limited by Owner's right to perform work or employ other contractors on portions of project. See Drawings for more information.

3. OSHA REQUIREMENTS

All work is subject to OSHA Requirements.

1. Work to include replacement of items shown on plans.
4. This project includes general construction, plumbing, fire sprinkler, electrical and fire alarm.
5. Work to commence on notice of award and to be completed within an amount of time agreed upon by the Owner, after Equipment Arrival.
6. Contractor shall coordinate scheduled work as shown on Drawings.
7. Work outside of normal work day and work week is allowed at no additional cost to Owner; must be coordinated with Orange County Community College Capital Projects Coordinator and Security must be advised.
8. All workers to be registered with Orange County Community College and all vehicles on campus are to be registered with Orange County Community College. Contractor's Superintendent required at all times. Contractor to give contact information on Superintendent and also supply emergency numbers. All employees to be registered with OCCC. Additionally, contractor shall contact security for daily access and advise security to take the building offline. Contractor shall also notify security when they leave.
9. Work is to commence within 10 days of Notice to Proceed unless otherwise advised by the college and be manned continuously.

10. All 3rd party inspections, cooling equipment, electric, etc. to be paid by contractor.
11. The contractor shall supply all labor, material and equipment for a complete and thorough job, even if certain items are inadvertently omitted.
12. Project will have a pre-construction meeting and bi-weekly progress meetings.
13. As-built drawings required from contractors as well as O & M manuals and company instruction for employees.
14. Work area to remain passable at all times for College employees to be able to complete their work.
15. Work area to be cleaned daily by end of day.
16. Work area to be secured daily upon completion of work for that day.

GENERAL NOTES:

1. Drawings on these plans are diagrammatic. The general contractor is the only prime contractor; mention of other trades or contractors refer to his subcontractors. This contractor shall be responsible for coordinating all HVAC, Plumbing, Sprinkler and Electrical work with other trades and the building structure. No extra payments will be authorized for rerouting or removal of installed work due to lack of coordination with other systems.
2. All work shall be the responsibility of the General Contractor and /or his subcontractors. Any reference to Electrical Contractor, Plumbing Contractor, HVAC Contractor or other trade specific contractor shall be understood to come under Requirements of the General Contractor.
3. Contractor will not make new penetrations through plaster walls, ceilings or floors.
4. Provide shut-off valves at all piping branch take-offs and at all connections to equipment. Shut-off valves to be ball-valve type.
5. Provide drains with hose adapters and caps on piping at all low points. Provide manual vents on piping at all high points.
6. Coordination of electrical characteristics and requirements of all mechanical equipment is the responsibility of the Contractor.
7. All motor starters shall be furnished by the HVAC contractor and installed by the Contractor.
8. All required control equipment and wiring shall be furnished and installed by the college's Controls Contractor. This contractor shall be responsible for coordination with the controls contractor for installation.
9. Duct smoke detectors shall be furnished and installed by the college's Fire Alarm Contractor. The General Contractor shall coordinate with the Fire Alarm Contractor for installation.

10. The terms "provide" or "furnish", as used on the plans, indicate that the contractor is to furnish and install the referenced equipment or systems in their entirety as required for a complete and operable system.
11. Contractor shall provide and install all components indicated on detail sheets, plans, specifications and all pertinent equipment required for a complete and workable system.
12. Contract close-out: In the presence of the Owner or Engineer, demonstrate operation of systems and that all specifications have been met to the satisfaction of all parties.
13. All areas disturbed during construction shall be restored to original condition. Any grassed or landscaped areas and any pavement disturbed shall be restored to original condition with approved material. Approved topsoil shall be provided in grassed areas and properly graded. Seeding by Owner.
14. It is the intent and purpose of these specifications and drawings to include and provide for all materials, appliances and labor to properly complete and leave in perfect working condition the entire system hereinafter specified. Any material, labor or appliance not specifically mentioned in these specifications or shown on the drawings, but necessary for a complete installation, must be furnished by this contractor.

MECHANICAL DEMOLITION NOTES:

1. Remove all equipment as indicated on plan. Removals shall include all housekeeping pads, dampers, valves, fittings, and any other associated accessories which pertain to the equipment to be removed. Supports and hangers to remain for reuse where possible.
2. Removal of all power connections to demolition items shall be by the electrical contractor.
3. Any discrepancies between the demolition plans and actual field conditions shall be brought to the attention of the Engineer. Any demolition work which may be questionable due to unforeseen field conditions shall not be removed until reviewed by the Engineer or Building Facilities Manager.
4. Demolition work shall include the preparation of existing equipment for connection to new equipment.
5. All equipment removals shall become the property of this contractor. This contractor shall be responsible for the proper removal and disposal of demolition items off-site unless otherwise noted.
6. The plans are intended to convey the extent and scope of the demolition work. Every item intended for removal may not be shown. The contractor is advised to survey the project site before submitting a bid for demolition work.
7. It is the responsibility of the mechanical contractor for the draining, filling and chemical water treatment, per boiler manufacturer's requirements.

8. Contractor to protect walls and floors from being damaged during demo and disposal of demo material. Any damaged is to be replaced.

CONTROLS WIRING AND INSTALLATION NOTES:

1. Low-voltage control relays are required for any motor control circuit above 24V.
2. All existing low-voltage wiring to be reused. Extensions of this wire will be provided by General Contractor.
3. No new penetrations are to be made for low-voltage wiring.

ADDITIONAL GENERAL NOTES:

1. All conduits are shown diagrammatically, exact runs shall be determined in field except where specifically dimensioned on conduit layouts. Contractor shall follow minimum spacing requirements to reduce electromagnetic interference. Coordinate conduit routing with all other trades.
2. All exposed circuits shall be run parallel to building walls and beams except where otherwise shown. Contractor shall install conduit in such a manner to avoid all interferences.
3. Deflection/expansion fittings shall be provided where rigid metal conduits cross structural expansion joints.
4. Exposed conduit shall be supported on walls or ceilings by approved hangers of angle or channel construction. Conduits shall be supported at least every eight (8') feet.
5. No conduit shall be smaller than 3/4" unless noted otherwise on plans.
6. Exact conduit stub-up locations are to be determined by the electrical contractor based on certified manufacturer's drawings of the respective equipment. Conduit shall be installed to agree with the equipment furnished.
7. Conduits passing through building floors or walls below grade are to be installed with watertight through wall conduit seal fittings.
8. Equipment furnished by others shall be coordinated by this contractor.
9. The HVAC contractor shall not endanger the stability of the structure or any part thereof by cutting, drilling or otherwise, and shall not in any way cut or alter the work of any other contractor, except with the written consent of and under the direction of the architect and/or general contractor.
10. The electrical contractor shall secure all approvals and certificates and pay all fees for all the work installed. Certificates shall be delivered to the General Contractor before final payment will be made.

11. All work shall be done in accordance with the latest applicable version of the NEC as well as all State and local codes.
12. The drawings indicate and the specifications describe the general arrangements and location of outlet boxes, etc. The contractor shall, without extra cost to the owner, make all reasonable modifications in the work as may be required to prevent conflict with existing conditions, the work of other trades and for the proper installation of the work.
13. Prior to submission of the bid proposal, the college will allow for one site walk-through to allow all contractors interested in bidding to visit the site and examine carefully the existing conditions and the difficulties that will be incurred during the performance of this work. This site walk-through is as per the invitation to bid. All are strongly encouraged to attend in order to:
 - A. Verify and coordinate piping and conduit routing.
 - B. Verify and coordinate scope of demolition work.
 - C. Verify and coordinate scope of work involving connections to existing base building systems.
 - D. Verify with general contractor scope of work associated with rigging of equipment to be pre-purchased.
14. Claims for additional compensation arising due to failure of the contractor to fully understand the site conditions shall not be paid for any other party.
15. Connections to existing work:
 - A. Install new work and connect to existing work with minimal interference to existing facilities.
 - B. Temporary shut-downs of existing services:
 1. At no addition charges.
 2. At times not to interfere with normal operation of existing services.
 3. Only with written consent of the general contractor and/or building owner's representative.
 - C. Alarm and emergency systems.
 - D. Maintain continuous operation of existing facilities as required with necessary temporary connections between new and existing work.
 - E. Connect new work to existing work in neat and acceptable manner. Restore existing disturbed work to original condition, including maintenance of wiring continuity as required.
16. Leave wire sufficiently long to permit making final connections. Conduit over ten (10') feet in which wiring is not installed – furnish pull string.
17. Do not pull thermoplastic wires at temperatures lower than 32 degrees F (0 Deg C). Provide cable supports for wire in riser conduits as required by code.
18. Verify locations of outlets and equipment in furnished rooms with architectural drawings of interior details and finish. In centering outlets and locating boxes and outlets, allow for overhead pipes, ducts and mechanical equipment, variations in fireproofing and plastering, window and door trim, paneling, hung ceiling, etc., and correct any inaccuracy resulting from failure to do so without the expense to owner.
19. Junction and Pull Boxes: Do not locate exposed in finished spaces unless required by NEC. Where necessary, re-route or make other arrangements for concealment. Provide pull boxes as

indicated and wherever necessary to facilitate pulling of wire and coordinate locations with other trades. Covers of conduits, install pull boxes every 100 feet and as indicated. Coordinate locations with other trades. (No junction boxes to be mounted on plaster).

20. Support junction and pull boxes independently to building structure with no weight bearing on conduit.
21. All access door locations of other trades equipment, see respective trade drawings.
22. For each location of other trades equipment, see respective trade drawings.
23. Contractor shall provide and install all components indicated on detail sheets, plans, specifications and all pertinent equipment required for a complete workable system.
24. Flexible connections in exposed areas shall not exceed 18" maximum.
25. All new equipment wiring shall be extended from existing wiring.
26. HVAC contractor shall become familiar with and comply with owner's building standards for construction.
27. All final connections to vibrating equipment (motors, generators, etc.) shall be through a liquid tight flexible metal conduit.
28. There shall be no new penetrations through plaster walls, floors or ceilings.
29. All penetrations through fire rated partitions shall be sealed fire and smoke tight with an appropriate U.L. listed firestopping material and/or system.
30. The terms "provide" or "furnish", as used on the plans, indicate that the contractor is to furnish and install the referenced equipment or systems in their entirety as required for a complete and operable system.
31. Contractor shall provide and install all components indicated on detail sheets, plans, specifications and all pertinent equipment required for a complete and workable system.
32. Contract Close Out: In the presence of the owner, engineer or architect, demonstrate operation of systems and that all specifications have been met to the satisfaction of all parties.
33. It is the intent and purpose of these specifications and drawings to include and provide for all materials, appliances and labor to properly complete, and leave in perfect working condition, the entire system hereinafter specified. Any material, labor or appliance not specifically mentioned in these specifications or shown on the drawings, but necessary for a complete installation must be furnished by this contractor.

END OF SECTION

SECTION 01 1040 – PROJECT COORDINATION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section specifies administrative and supervisory requirements necessary for Project coordination including, but not necessarily limited to:
 - 1. Coordination.
 - 2. Administrative and supervisory personnel.
 - 3. General installation provisions.
 - 4. Cleaning and protection.
- B. Progress meetings, coordination meetings and pre-installation conferences are included in Section “Project Meetings”.
- C. Requirements for the Contractor’s Construction Schedule are included in Section “Submittals”.

1.3 COORDINATION

- A. Coordination: Coordinate construction activities included under various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations included under different Sections of the Specifications that are dependent upon each other for proper installation, connection, operation and watertight condition.
 - 1. Contractor must coordinate work with Owner and other prime contractors.
 - 2. Where installation of one part of the Work is dependent on installation of other components, either before or after its own installation, schedule construction activities in the sequence required to obtain the best results.
- B. Where necessary, prepare memoranda for distribution to each party involved outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.
 - 1. Prepare similar memoranda for the Owner and separate Contractors where coordination of their Work is required.

- C. Administrative Procedure: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of schedules.
 - 2. Installation and removal of temporary facilities.
 - 3. Delivery and processing of submittals.
 - 4. Progress meetings.
 - 5. Project closeout activities.

1.4 SUBMITTALS

- A. Coordination Drawings: Prepare and submit coordination Drawings where close and careful coordination is required for installation of products and materials fabricated off-site by separate entities, and where limited space availability necessitates maximum utilization of space for efficient installation of different components.
 - 1. Show the interrelationship of components shown on separate Shop Drawings.
 - 2. Indicate required installation sequences.
 - 3. Comply with requirements contained in Section “Submittals”.
- B. Staff Names: Within fifteen (15) days of Notice to Proceed, submit a list of the Contractor’s principal staff assignments, including the Superintendent and other personnel in attendance at the site; identify individuals, their duties and responsibilities; list their addresses and telephone numbers.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 GENERAL INSTALLATION PROVISIONS

- A. Inspection of Conditions: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Manufacturer’s Instructions: Comply with manufacturer’s installation instructions and recommendations, to the extent that those instructions and recommendations are more explicit or stringent than requirements contained in Contract Documents.
- C. Inspect materials or equipment immediately upon delivery and again prior to installation. Reject damaged and defective items.
- D. Provide attachment and connection devices and methods necessary for securing Work. Secure Work true to line and level. Allow for expansion and building movement.

- E. Visual Effects: Provide uniform joint widths in exposed Work. Arrange joints in exposed Work to obtain the best visual effect. Refer questionable choices to the Architect for final decision.
- F. Recheck measurements and dimensions, before starting each installation.
- G. Install each component during weather conditions and Project status that will ensure the best possible results. Isolate each part of the completed construction from incompatible material as necessary to prevent deterioration.
- H. Coordinate temporary enclosures with required inspections and tests.

3.2 CLEANING AND PROTECTION

- A. During handling and installation, clean and protect construction in progress and adjoining materials in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- B. Limiting Exposures: Supervise construction activities 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. Where applicable, such exposures include, but are not limited to, the following:
 - 1. Solvents.
 - 2. Chemicals.
 - 3. Puncture.
 - 4. Abrasion.
 - 5. Heavy traffic.
 - 6. Soiling, staining and corrosion.
 - 7. Combustion.
 - 8. Unusual wear or other misuse.
 - 9. Contact between incompatible materials.
 - 10. Destructive testing.
 - 11. Unprotected storage.
 - 12. Improper shipping or handling.
 - 13. Theft.
 - 14. Vandalism

END OF SECTION

SECTION 01 3000 - ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.1 PROJECT MANAGEMENT AND COORDINATION

- A. Coordinate construction to ensure efficient and orderly installation of each part of the Work.
- B. Engineer to coordinate with Owner to conduct progress meetings at Project site every 2 weeks. Owner to notify Contractor of meeting dates and times. Require attendance of each subcontractor or other entity concerned with current progress or involved with planning or coordination of future activities.
 - 1. Engineer shall record minutes and distribute to parties involved.

1.2 SUBMITTAL PROCEDURES

- A. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 1. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.
 - 2. Architect will not accept submittals from sources other than Contractor.
 - 3. Identify deviations from the Contract Documents.
 - 4. Submit six copies of each submittal.
- B. Place a permanent label or title block on each submittal for identification. Provide a 4- by 5- inch space on the label or beside title block to record review and approval markings and action taken. Include the following information on the label:
 - 1. Project name.
 - 2. Date.
 - 3. Name and address of Contractor.
 - 4. Name and address of subcontractor or supplier.
 - 5. Number and title of appropriate Specification Section.
- C. Architect will review each action submittal, mark as appropriate to indicate action taken, and return copies less those retained. Compliance with specified requirements remains Contractor's responsibility.
- D. Construction Schedule Submittal Procedure:
 - 1. Submit schedule within 10 days after date established for Commencement of the Work. Distribute copies to Owner, Engineer, subcontractors, and parties required to comply with dates.

2. Revise the schedule after each meeting or activity where revisions have been made. As Work progresses, mark each bar to indicate actual completion. Distribute revised copies to Owner, Architect, subcontractors, and parties required to comply with dates.

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS

- A. Product Data: Mark each copy to show applicable choices and options. Include the following:
 1. Data indicating compliance with specified standards and requirements.
 2. Notation of coordination requirements.
 3. For equipment data, include rated capacities, dimensions, weights, required clearances, and furnished specialties and accessories.
- B. Shop Drawings: Submit Project-specific information drawn to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. Submit 1 reproducible print and 1 blue- or black-line print on sheets at least 8-1/2 by 11 inches but no larger than 30 by 42 inches. Architect will return the reproducible print. Include the following:
 1. Dimensions, profiles, methods of attachment, large-scale details, and other information, as appropriate for the Work.
 2. Identification of products and materials.
 3. Notation of coordination requirements.
 4. Notation of dimensions established by field measurement.
- C. Samples: Submit Samples finished as specified and identical with the material proposed. Where variations are inherent in the material, submit sufficient units to show full range of the variations. Include name of manufacturer and product name on label.

2.2 INFORMATION SUBMITTALS

- A. Construction Schedule: Prepare a horizontal bar chart Contractor's construction schedule.
 1. Provide a separate time bar for each activity, using same breakdown of Work indicated in the Schedule of Values, and a vertical line to identify the first workday of each week.
 2. Coordinate each element with other activities. Show each activity in proper sequence. Indicate sequences necessary for completion of related Work.
 3. Indicate Substantial Completion and allow time for Architect's procedures necessary for certifying Substantial Completion.
- B. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements.

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 3300 - SUBMITTALS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for submittals required for performance of the Work, including:
 - 1. Contractor's interior damage survey.
 - 2. Contractor's construction schedule.
 - 3. Submittal schedule.
 - 4. Daily construction reports.
 - 5. Shop Drawings.
 - 6. Product data.
 - 7. Samples.
- B. Administrative Submittals: Refer to division 1 Sections and other Contract Documents for requirements for administrative submittals. Such submittals include, but are not limited to:
 - 1. Permits.
 - 2. Applications for payment.
 - 3. Performance and payment bonds.
 - 4. Insurance certificates.
 - 5. List of Subcontractors.
- C. Definitions: Refer to other Division 1 Sections and other Contract Documents for additional definitions:
 - 1. Shop Drawings: See General Conditions. Shop drawings also include:
 - a. Product data specifically prepared for this project.
 - b. Shop or plant inspection and test reports, when made on specific materials, products, or systems to be used in the work.
 - 2. Product Data: See General Conditions. Product data submittals also include:
 - a. Product data not specifically prepared for this project.
 - b. Performance curves, when issued by the manufacturer for all products of that type.
 - c. Printed selection data showing standard colors.
 - d. Wiring diagrams, when standard for all products of that type.
 - 3. Samples: See General Conditions. Submit full-size or size specified, fully fabricated samples cured and finished as specified and physically identical with

the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture, and pattern.

- a. Mock-ups and similar samples specified in individual Work sections shall comply with requirements for “samples” to greatest extent possible, and process transmittal forms to provide a record of activity.
4. Informational Submittals: Submittals identified in the Contract Documents as to be submitted for information only.

1.3 SUBMITTAL PROCEDURES

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that require sequential activity.
 2. Processing: Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmittals.
 - a. Allow two weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The Architect will promptly advise the Contractor when a submittal being processed must be delayed for coordination.
 - b. If an intermediate submittal is necessary, process the same as the initial submittal.
 - c. Allow two weeks for reprocessing each submittal.
 - d. No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the Work to permit processing.
- B. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
 1. Provide a space approximately 4” x 5” on the label or beside the title block on Shop Drawings to record the Contractor’s review and approval markings and the action taken.
 2. Include the following information on the label for processing and recording action taken.
 - a. Project name.
 - b. Date.
 - c. Name and address of A/E.
 - d. Name and address of Contractor.
 - e. Name and address of subcontractor.
 - f. Name and address of supplier.
 - g. Name of manufacturer.

- h. Number and title of appropriate Specification Section.
 - i. Drawing number and detail references, as appropriate.
- C. Submittal Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay. Coordinate submittals and activities that must be performed in sequence, as well as submittals of different types for the same product or system, so that the Architect has enough information to properly review the submittals.
- D. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from Contractor to Architect using a transmittal form. Submittals received from sources other than the Contractor will be returned without action. Submittals received without Contractor's executed review and approval will be returned without action.
 - 1. Transmittal Form: Use AIA Document G810.

1.4 CONTRACTOR'S INTERIOR DAMAGE SURVEY

- A. Prior to construction, including demolition, the Contractor shall conduct a survey and inspect the interior of the building and note any areas of damage which can be visually observed. On a plan the Contractor shall note the location and extent of damage or staining observed. A written description of same, keyed to the plan, shall also be prepared.
- B. These plans and notes, after being submitted to, and reviewed by the Architect, will be the basis for determining if any additional damage has been caused by the operations of the Contractor. This additional damage, if any, will be the responsibility of the Contractor. The Contractor agrees to bear the cost of the repair of additional damage caused by construction operations. Method of repair shall include all that is necessary to restore the damaged area to its original condition.
- C. Submit five (5) copies of the survey plan. The Architect and Owner will each retain one and will return the other for the Contractor's record.

1.5 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Bar-Chart Schedule: Prepare a fully developed, horizontal bar-chart type Contractor's construction schedule. Submit within 10 days of the date established for "Commencement of the Work".
 - 1. Provide a separate time bar for each significant construction activity in proper sequence of operation. Provide a continuous vertical line to identify the first working day of each week. Use the same breakdown of units of the Work as indicated in the "Schedule of Values". Indicate activities separately for each separate building.
 - 2. Within each time bar indicate estimated completion percentage in 10 percent increments. As Work progresses, place a contrasting mark in each bar to indicate percentage of Actual Completion.
 - 3. Secure time commitments for performing critical elements of the Work from parties involved. Coordinate each element on the schedule with other

construction activities for each Prime Contract; include minor elements involved in the sequence of the Work. Show each activity in proper sequence. Indicted graphically sequences necessary for completion of related portions of the Work.

- B. Distribution: Following the Architect's response to the initial submittal, the Contractor shall revise and resubmit, if necessary, and upon approval will print and distribute copies to the Architect, Owner, subcontractors, and other parties required to comply with scheduled dates. Post copies in the Project meeting room and temporary field office.
 - 1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity, where revisions have been recognized or made. Issue the updated schedule concurrently with report of each meeting.

1.6 SUBMITTAL SCHEDULE

- A. After development and acceptance of the Contractor's construction schedule, prepare a complete schedule of submittals. Submit the schedule within the (10) days of the date required for establishment of the Contractor's construction schedule.
 - 1. Prepare the schedule in chronological order; include submittals required during the first 90 days of construction. Provide the following information:
 - a. Related Section number.
 - b. Submittals category.
 - c. Description of the part of the Work covered.

1.7 SUBMITTAL TIMING

- A. Transmit each submittal at or before the time indicated on the approved schedule of submittals. Deliver each submittal requiring approval in time to allow for adequate review and processing time, including resubmittals if necessary; failure of the Contractor in this respect will not be considered as grounds for an extension of the contract time.
- B. Deliver each informational submittal prior to start of the work involved, unless the submittal is of a type which cannot be prepared until after completion of the work; submit promptly. If a submittal must be processed within a certain time in order to maintain the progress of the work, state so clearly on the submittal.
- C. Allow a minimum of two (2) weeks for the first processing of each submittal. Allow more time when submittals must be coordinated with later submittals. Allow same time for processing of resubmittals as for original submissions.
- D. If a submittal must be delayed for coordination with other submittals not yet submitted, the Architect may at his option either return the submittal with no action or notify the Contractor of the other submittals which must be received before the submittal can be reviewed.

1.8 SUBMITTAL PROCEDURE

- A. Contractor Review: Sign each copy of each submittal certifying compliance with the requirements of the Contract Documents. Notify the Architect, in writing and at time of submittal, or all points upon which the submittal does not conform to the requirements of the contract documents, if any.

1.9 DAILY CONSTRUCTION REPORTS

- A. Prepare a daily construction report, recording the following information concerning events at the site; and submit duplicate copies to the Architect at weekly intervals:
 - 1. List of subcontractors at the site.
 - 2. Approximate count of personnel at the site.
 - 3. High and low temperatures, general weather conditions.
 - 4. Accidents and unusual events.
 - 5. Meetings and significant decisions.
 - 6. Stoppages, delays, shortages, losses.
 - 7. Orders and requests of governing authorities.
 - 8. Change Orders received, implemented.
 - 9. Partial Completions, occupancies.
 - 10. Substantial Completions authorized.

1.10 SHOP DRAWINGS

- A. Submit newly prepared information drawn to accurate scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not considered Shop Drawings.
- B. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:
 - 1. Dimensions, at accurate scale.
 - 2. Identification of products and materials included.
 - 3. Compliance with specified standards.
 - 4. Notation of coordination requirements.
 - 5. Notation of dimensions established by field measurement, at accurate scale.
 - 6. Sheet Size: Except for templates, patterns and similar full size Drawings, submit Shop Drawings on sheets at least 8-1/2" x 11" but no larger than 24" x 36".
 - 7. Initial Submittal: Submit one electronic PDF and one blue or black-line print for the Architect's review; the reproducible print will be returned.
 - 8. Final Submittal: Submit 5 blue or black-line prints; submit 7 prints where required for maintenance manuals. 2 prints will be retained, the remainder will be returned.
 - 9. Do not use Shop Drawings without an appropriate final stamp indicating action taken in connection with construction.

1.11 PRODUCT DATA

- A. Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves. Where Product data must be specially prepared because standard printed data is not suitable for use, submit as "Shop Drawings".
 - 1. Mark each copy top show applicable choices and options. Where printed Product Data includes information on several products, some of which are not required, mark copies to indicate the applicable information. Include the following information:
 - a. Manufacturer's printed recommendations.
 - b. Compliance with recognized trade association standards.
 - c. Compliance with recognized testing agency standards.
 - d. Application of testing agency labels and seals.
 - e. Notation of dimensions verified by field measurement.
 - f. Notation of coordination requirements.
 - 2. Submittals: Submit 5 copies of each required submittal; submit 7 copies where required for maintenance manuals. The Architect will retain one, and will return the other marked with action taken and corrections or modifications required.
 - a. Unless noncompliance with Contract document provisions is observed, the submittal may serve as the final submittal.

1.12 SAMPLES

- A. Submit full-size, fully fabricated Samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture, and pattern.
 - 1. Mount, display, or package Samples in the manner specified to facilitate review of qualities indicated. Prepare Samples to match the Architect's Sample. Include the following.
 - a. Generic description of the Sample.
 - b. Sample source.
 - c. Product name or name of manufacturer.
 - d. Compliance with recognized standards.
 - e. Availability and delivery time.
 - 2. Submit Samples for review of kind, color, pattern, and texture, for a final check of these characteristics with other elements, and for a comparison of these characteristics between the final submittal and the actual component as delivered and installed.

3. Preliminary submittals: Where Samples are for selection of color, pattern, texture, or similar characteristics from a range of standard choices, submit a full set of choices for the material or product.
 - a. Preliminary submittals will be reviewed and returned with the Architect's mark indicating selection and other action.
4. Submittals: Except for Samples illustrating assembly details, workmanship, fabrication techniques, connections, operation and similar characteristics, submit 3 sets; one will be returned marked with action taken.
5. Maintain sets of Samples, as returned, at the Project site, for quality comparisons throughout the course of construction.

1.13 ARCHITECT'S ACTION

- A. Except for submittals for record, information or similar purposes, where action and return are required or requested, the Architect will review each submittal, mark to indicate action taken, and return promptly.
 1. Compliance with specified characteristics is the Contractor's responsibility.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED).

END OF SECTION

SECTION 01 4000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Testing and inspecting services are specified in other Sections of these Specifications or are required by authorities having jurisdiction and shall be performed by independent testing agencies.
 - 2. Owner will provide testing and inspecting services not specified to be provided by Contractor.
 - 3. Contractor is responsible for scheduling inspections and tests and notifying testing agency.
 - 4. Retesting and Re-inspecting: Contractor shall pay for additional testing and inspecting required as a result of tests and inspections indicating noncompliance with requirements.
- B. Performance and Design Criteria: Where design services or certifications by a professional engineer are required 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.
 - 2. 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.
- C. Submittals: Testing agency shall submit a certified written report of each inspection and test to **Owner**, Engineer, Contractor, and to authorities having jurisdiction when authorities so direct. Reports of each inspection, test, or similar service shall include the following:
 - 1. Name, address, and telephone number of testing agency.
 - 2. Project title and testing agency's project number.
 - 3. Date of report and designation (number).
 - 4. Dates and locations where samples were taken or inspections and field tests made.
 - 5. Ambient conditions at the time of sample taking and inspecting or field testing.
 - 6. Names of individuals taking the sample or making the inspection or test.
 - 7. Product and test method.
 - 8. Inspection or test data including interpretation of test results and comments or professional opinion on whether inspected or tested Work complies with requirements.
 - 9. Recommendations on retesting or re-inspection.
 - 10. Name and signature of laboratory inspector.

- D. Testing Agency Qualifications: Agencies that specialize in the types of inspections and tests to be performed and are acceptable to authorities having jurisdiction.
- E. Testing Agency Responsibilities: Testing agency shall cooperate with Architect and Contractor in performing its duties and shall provide qualified personnel to perform inspections and tests.
 - 1. Agency shall promptly notify Architect and Contractor of deficiencies in the Work observed during performance of its services.
 - 2. Agency shall not release, revoke, alter, or enlarge requirements of the Contract Documents nor approve or accept any portion of the Work.
 - 3. Agency shall not perform duties of Contractor.
- F. Auxiliary Services: Cooperate with testing agencies and provide auxiliary services as requested, including the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities to assist inspections and tests.
 - 3. Adequate quantities of materials for testing, and assistance in taking samples.
 - 4. Facilities for storing and curing test samples.
 - 5. Security and protection for samples and test equipment.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 4200 - REFERENCES

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Publication Dates: Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
- B. Abbreviations and Acronyms: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web site addresses are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

AABC	Associated Air Balance Council www.aabchq.com	(202) 737-0202
AAMA	American Architectural Manufacturers Association www.aamanet.org	(847) 303-5664
AASHTO	American Association of State Highway and Transportation Officials www.aashto.org	(202) 624-5800
ACI	American Concrete Institute/ACI International www.aci-int.org	(248) 848-3700
AGA	American Gas Association www.aga.org	(202) 824-7000
AIA	American Institute of Architects (The) www.e-architect.com	(202) 626-7300
AMCA	Air Movement and Control Association International, Inc. www.amca.org	(847) 394-0150
ANSI	American National Standards Institute www.ansi.org	(202) 293-8020
ARI	Air-Conditioning & Refrigeration Institute www.ari.org	(703) 524-8800
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers www.ashrae.org	(800) 527-4723 (404) 636-8400
ASME	ASME International	(800) 843-2763

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

	(The American Society of Mechanical Engineers International) www.asme.org	(212) 591-7722
ASTM	American Society for Testing and Materials www.astm.org	(610) 832-9585
AWS	American Welding Society www.aws.org	(800) 443-9353 (305) 443-9353
AWWA	American Water Works Association www.awwa.org	(800) 926-7337 (303) 794-7711
BOCA	BOCA International, Inc. www.bocai.org	(708) 799-2300
CDA	Copper Development Association Inc. www.copper.org	(800) 232-3282 (212) 251-7200
CFR	Code of Federal Regulations www.access.gpo.gov/nara/cfr	(888) 293-6498 (202) 512-1530
EPA	Environmental Protection Agency www.epa.gov	(202) 260-2090
FMG	FM Global (Formerly: FM - Factory Mutual System) www.fmglobal.com	(401) 275-3000
HI	Hydraulic Institute www.pumps.org	(888) 786-7744 (973) 267-9700
ICC	International Code Council (Formerly: CABO - Council of American Building Officials) www.intlcode.org	(703) 931-4533
ICBO	International Conference of Building Officials www.icbo.org	(800) 284-4406 (562) 699-0541
IEEE	Institute of Electrical and Electronics Engineers, Inc. (The) www.ieee.org	(212) 419-7900
MBMA	Metal Building Manufacturers Association www.mbma.com	(216) 241-7333
NECA	National Electrical Contractors Association www.necanet.org	(301) 657-3110
NEMA	National Electrical Manufacturers Association	(703) 841-3200

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

www.nema.org

NETA	InterNational Electrical Testing Association www.netaworld.org	(303) 697-8441
NFPA	National Fire Protection Association www.nfpa.org	(800) 344-3555 (617) 770-3000
NRCA	National Roofing Contractors Association www.nrca.net	(800) 323-9545 (847) 299-9070
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association www.smacna.org	(703) 803-2980
UBC	Uniform Building Code (See: International Conference of Building Officials)	
UL	Underwriters Laboratories Inc. www.ul.com	(800) 704-4050 (847) 272-8800

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Use Charges: Contractor shall pay for all use charges except as noted otherwise.
- B. Use water and electric power from Owner's existing system without metering and without payment of use charges.
- C. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
- D. Temporary Utilities: At earliest feasible time, when acceptable to Owner, change over from use of temporary service to use of permanent service.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION

3.1 TEMPORARY UTILITIES

- A. General: Use owner's facilities where available and as noted. Engage appropriate local utility company to install temporary service or connect to existing service where owner's facilities are insufficient for the use. Where utility company provides only part of the service, provide the remainder.
- B. Sanitary Facilities: Use of Owner's existing facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- C. Heating and Cooling: Provide temporary heating and cooling required for curing materials or for protecting installed construction from adverse weather. Use equipment that will not have a harmful effect on completed installations or elements being installed.

3.2 TEMPORARY FACILITIES

- A. Provide field offices, storage trailers, and other support facilities as necessary for the Work.
- B. Collect waste daily and, when containers are full, legally dispose of waste off-site.
 - 1. Handle hazardous, dangerous, or unsanitary waste materials in separate closed waste containers. Dispose of material according to applicable laws and regulations.

- C. Provide temporary enclosures for protection of construction and workers from inclement weather and for containment of heat.

3.3 TEMPORARY CONTROLS

- A. Provide temporary environmental controls as required by authorities having jurisdiction including, but not limited to, erosion and sediment control, dust control, noise control, and pollution control.
- B. Provide temporary barricades, warning signs, and lights to protect the public and construction personnel from construction hazards.
 - 1. Enclose construction areas with fences with lockable entrance gates, to prevent unauthorized access.
- C. Provide temporary fire protection until permanent systems supply fire-protection needs. Comply with NFPA 241.

3.4 TERMINATION AND REMOVAL

- A. Remove temporary facilities and controls before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

END OF SECTION

SECTION 01 6000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Provide products of same kind from a single source. The term "product" includes the terms "material," "equipment," "system," and similar terms.
- B. Product Substitutions: Substitutions include products and methods of construction differing from that required by the Contract Documents and proposed by Contractor after award of the Contract.
 - 1. Submit six copies of each request for product substitution.
 - 2. Submit requests within 14 days after signing the Contract.
 - 3. Submit requests in time to permit processing of request and subsequent submittals, if any, sufficiently in advance of when materials are required in the Work. Do not submit unapproved substitutions on Shop Drawings or other submittals.
 - 4. Identify product to be replaced and provide complete documentation showing compliance of proposed substitution with applicable requirements. Include a full comparison with the specified product, a list of changes to other Work required to accommodate the substitution, and any proposed changes in the Contract Sum or the Contract Time should the substitution be accepted.
 - 5. Architect will review the proposed substitution and notify Contractor of its acceptance or rejection.
- C. Comparable Product Submittal:
 - 1. Submit six copies of each request for approval of products as comparable to basis-of-design products. Submit requests in time to permit processing of request and subsequent submittals, if any, sufficiently in advance of when materials are required in the Work. Do not submit unapproved products on Shop Drawings or other submittals.
 - 2. Identify product to be replaced and provide complete documentation showing compliance of proposed product with applicable requirements. Include a full comparison with the specified product.
 - 3. Architect will review the proposed product and notify Contractor of its acceptance or rejection.
- D. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
 - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
 - 2. Deliver products to Project site in manufacturer's original sealed container or packaging, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.

3. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.
4. Store materials in a manner that will not endanger Project structure.
5. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.

PART 2 - PRODUCTS

2.1 PRODUCT OPTIONS

- A. Provide products that comply with the Contract Documents, are undamaged, and are new at the time of installation.
 1. Provide products complete with accessories, trim, finish, and other devices and components needed for a complete installation and the intended use and effect.
- B. Select products to comply with all of the following that are applicable:
 1. Where only a single product or manufacturer is named, provide the item indicated. No substitutions will be permitted.
 2. Where two or more products or manufacturers are named, provide one of the items indicated. No substitutions will be permitted.
 3. Where products or manufacturers are specified by name, accompanied by the term "available products" or "available manufacturers," provide one of the named items or comply with provisions for "comparable product" to obtain approval for use of an unnamed product or manufacturer.
 4. Where a single product is named as the "basis-of-design" together with the names of other manufacturers, provide the named product or comply with provisions for "comparable product submittal" to obtain approval for use of a product of one of the other named manufacturers.
 5. Where a single product is named as the "basis-of-design" and no other manufacturers are named, provide the named product or comply with provisions for "comparable product submittal" to obtain approval for use of a product of another manufacturer.
 6. Where a product is described with required characteristics, provide a product that complies with those characteristics.
 7. Where compliance with performance requirements is specified, provide products that comply and are recommended in writing by the manufacturer for the application.
 8. Where compliance with codes, regulations, or standards, is specified, select a product that complies with the codes, regulations, or standards referenced.
- C. Unless otherwise indicated, Architect will select color, pattern, and texture of each product from manufacturer's full range of options that includes both standard and premium items.

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 7320 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Unless otherwise indicated, demolished materials become Contractor's property. Remove from Project site.
- B. Items indicated to be removed and salvaged remain Owner's property. Remove, clean, and deliver to Owner's designated storage area.
- C. Comply with EPA& DEC regulations and disposal regulations of authorities having jurisdiction.
- D. Conduct demolition without disrupting Owner's use of the building.
- E. It is possible that hazardous or contaminated materials may be encountered in the Work. If materials suspected of containing hazardous materials are encountered, immediately notify Architect and Owner. Hazardous materials shall be removed as indicated on the plans and in the specifications.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 DEMOLITION

- A. Maintain and protect existing utilities to remain in service before proceeding with demolition, providing bypass connections to other parts of the building.
- B. Locate, identify, shut off, disconnect, and cap off utility services to be demolished.
- C. Conduct demolition operations and remove debris to prevent injury to people and damage to adjacent buildings and site improvements.
- D. Provide and maintain shoring, bracing, or structural support to preserve building stability and prevent movement, settlement, or collapse.
- E. Protect building structure and interior from weather and water leakage and damage.
- F. Protect walls, ceilings, floors, and exposed finishes that are to remain. Erect and maintain dustproof partitions. Cover and protect fixtures, furnishings, and equipment that are to remain.
- G. 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.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

- H. Promptly patch and repair holes and damaged surfaces of building caused by demolition. Restore exposed finishes of patched areas and extend finish restoration into remaining adjoining construction.
- I. Promptly remove demolished materials from Owner's property and legally dispose of them. Do not burn demolished materials.

END OF SECTION

SECTION 01 7700 – PROJECT CLOSEOUT

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The work shall include final cleaning, final observations, submissions and payments required to closeout the project.

1.2 CLEANING

- A. The General cleaning and more specific cleaning may be required in other individual Sections of the Specifications.
- B. This cleaning shall be done just prior to the Architect/Engineer's final observations for substantial completion. Recleaning will not be required after the Work has been observed and accepted unless later operations of the Contractor, in the opinion of the Architect/Engineer, make recleaning of certain portions necessary.

1.3 OBSERVATION

- A. Contractor:
 - 1. Submit written certification to the Architect/Engineer that Project, or designated portion of Project, is substantially complete.
 - 2. Submit list of all items to be completed or corrected.
- B. Architect/Engineer will make a final observation within (10) days after receipt of certification, together with Owner's Representative.
- C. Should the Architect/Engineer consider that the work is not substantially complete:
 - 1. He shall immediately notify Contractor, in writing, stating reasons.
 - 2. Contractor: Complete work, and send second written notice to the Architect, certifying that Project, or designated portion of project is substantially complete.
 - 3. Architect/Engineer will re-perform final observation the Work.
- D. Should the Architect/Engineer consider that the Work is substantially complete:
 - 1. Architect/Engineer will prepare and issue a Certificate of Substantial completion, AIA Document G704, complete with signatures of Owners and Contractor, accompanied by Contractor's list of items to be completed or corrected, as verified and amended by the Architect/Engineer and Owner's Representative.
 - 2. Contractor: Complete work listed for completion or correction within designated time.

1.4 CLOSEOUT SUBMITTALS

- A. Guarantees, Warranties, and Bonds: To requirements of paragraph 1.05.
- B. Project Record Documents: To requirements of paragraph 1.06 and 1.07.
- C. Required inspection certificates from AHJ.

1.5 GUARANTEES AND CERTIFICATIONS

- A. Prior to issuance of Certificate of Substantial Completion, the Contractor shall deliver to the Architect/Engineer, bound in separate, indexed folders, two (2) copies of all guarantees, warranties, bonds and certificates that are required by the General and Supplementary Conditions, and the individual technical sections of the Specifications.
- B. All submittals shall be duly executed and corporately sealed before delivery to the Architect.

1.6 RECORD DRAWINGS

- A. Prior to issuance of Certificate of Substantial Completion, the Contractor shall submit record drawings to the Architect/Engineer as follows:
 - 1. During construction, the Contractor shall keep an accurate record of all deviations between the Work as shown on the Drawings and that which is actually installed. This record set of prints shall be kept at the job site for final observation by the Architect/Engineer.
 - 2. Upon completion of the Work, such changes shall be neatly and correctly transferred to a reproducible set of the Drawings, and the Contractor shall certify by endorsement to the Drawings that the revisions are complete and accurate. He shall then deliver the reproducible record to the Architect/Engineer.

1.7 MAINTENANCE MANUAL

- A. Prior to issuance of Certificate of Substantial Completion, the Contractor shall submit maintenance manuals to the Architect/Engineer as follows:
 - 1. Each Subcontractor shall, under the direction of the Contractor, furnish three (3) complete sets of manuals, containing the manufacturer's instructions for maintenance and operation of each item of equipment and apparatus furnished under the Contract and any additional data specifically required under the technical sections of the Specifications for each division of the Work. The manuals shall be arranged in proper order, indexed, and suitably bound.
 - 2. The Contractor and each Subcontractor shall certify by endorsement thereon, that each of the manuals is complete and accurate. The Contractor shall assemble these manuals for all divisions of the Work, review them for completeness and submit them to the Architect/Engineer. The Contractor shall provide suitable

transfer case and deliver the manuals therein indexed and marked for each division of the Work.

PART 2.0 - PRODUCTS (NOT USED)

PART 3.0 - EXECUTION

3.1 FINAL OBSERVATION

- A. Contractor shall submit written certification that:
 - 1. Contract Documents have been reviewed.
 - 2. Project has been inspected by Contractor & AHJ for compliance with Contract Document.
 - 3. Work has been completed in accordance with Contract Documents.
 - 4. Equipment and systems have been tested in presence of Owner's Representative and are operational.
 - 5. Project is completed, and ready for final observation.
- B. Architect/Engineer will make final observation within ten (10) days after receipt of certification.
- C. Should the Architect/Engineer consider that the work is not finally complete:
 - 1. He shall notify Contractor, in writing, stating reasons.
 - 2. Contractor shall take immediate steps to remedy the stated deficiencies, and send second written notice to the Architect/Engineer certifying that the Work is complete.
 - 3. Architect/Engineer will re-perform final observation the Work.
- D. Should the Architect/Engineer consider that the Work is finally complete in accordance with requirements of Contract Documents, he shall request Contractor to make final payment submittals.

3.2 EVIDENCE OF PAYMENT, AND RELEASE OF LIENS

- A. Prior to issuance of final Certificate for Payment, the Contractor shall deliver to the Architect/Engineer, complete release of all claims as required by the General Conditions.
- B. The Contractor shall, along with his final Application for Payment deliver three (3) copies of AIA forms.
 - 1. G706- Contractor's Affidavit of Payment of Debts and Claims.

2. G707- Consent of Surety Company to Final Payment.
 3. G706A- Contractor's Affidavit of Release of Liens-with Contractor's Release of Waiver of Liens Subcontractor's Releases of Waivers of Liens
 4. Contractors letter of guarantee for a period of one (1) year from substantial completion.
 5. Maintenance Bond.
- C. All submittals shall be duly executed, notarized and sealed before delivery to the Architect/Engineer.

3.3 FINAL ADJUSTMENT OF ACCOUNTS

- A. Submit final statement of accounting to Architect/Engineer.
- B. Statement shall reflect all adjustments.
1. Original Contract Sum.
 2. Additions and deductions resulting from:
 - a. Previous change orders
 - b. Cash Allowances
 - c. Unit prices
 - d. Other adjustments
 - e. Deductions for uncorrected Work.
 - f. Deductions for non-conforming Work.
 - g. Deductions for liquidated damages.
 - h. Deductions for re-inspection payments.
 3. Total Contract Sum, as adjusted.
 4. Previous payments.
 5. Sum remaining due.
- C. Architect/Engineer will prepare final Change Order, reflecting approved adjustments to Contract Sum not previously made by Change Orders.

3.4 FINAL APPLICATION FOR PAYMENT & FINAL CERTIFICATE FOR PAYMENT

- A. Contractor shall submit final application in accordance with requirements of General Conditions.
- B. Architect/Engineer will issue final certificate in accordance with provisions of General Conditions.
- C. Should final completion be materially delayed through no fault of Contractor, Architect/Engineer may issue a semi-final Certificate for payment, in accordance with provisions of General Conditions.

END OF SECTION

SECTION 024119 - SELECTIVE STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Items indicated to be removed and salvaged remain Owner's property. Remove, clean, and deliver to Owner's designated storage area.
- B. Comply with EPA regulations and hauling and disposal regulations of authorities having jurisdiction.
- C. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- D. It is not expected that hazardous materials will be encountered in the Work. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 DEMOLITION

- A. Maintain services/systems indicated to remain and protect them against damage during selective demolition operations. Before proceeding with demolition, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of the building.
- B. Locate, identify, shut off, disconnect, and cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
- C. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- D. 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 or construction being demolished.
- E. Provide temporary weather protection to prevent water leakage and damage to structure and interior areas.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

- F. Protect walls, ceilings, floors, and other existing finish work that are to remain. Erect and maintain dustproof partitions. Cover and protect furniture, furnishings, and equipment that have not been removed.
- G. 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.
- H. Promptly remove demolished materials from Owner's property and legally dispose of them. Do not burn demolished materials.

END OF SECTION 024119

SECTION 054000 - COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: **Product Data and material certificates.**
- B. Comply with AISI's "Specification for the Design of Cold-Formed Steel Structural Members" for calculating structural characteristics of cold-formed metal framing.
- C. Comply with AWS D1.3, "Structural Welding Code - Sheet Steel."
- D. Protect cold-formed metal framing from corrosion, deformation, and other damage during delivery, storage, and handling.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Galvanized Steel Sheet: ASTM A 653/A 653M, **G60 (Z180)** zinc coated; Structural Steel (SS); Grade **33 (230)**.
- B. Steel Studs: C-shaped, with flange width of not less than **1-5/8 inches (41 mm)**, minimum uncoated steel thickness of **0.0428 inch (1.09 mm)** or as noted on drawings, and of depths indicated.
- C. Steel Track: U-shaped, minimum uncoated metal thickness same as **studs** used with track, with flange widths of **2 inches (32 mm)** for studs, of web depths indicated.

2.2 ACCESSORIES

- A. Accessories: Fabricate from the same material and finish used for framing members, of manufacturer's standard thickness and configuration, unless otherwise indicated.
- B. Cast-in-Place Anchor Bolts: ASTM F 1554, Grade 36, threaded carbon-steel hex-headed bolts and carbon-steel nuts; and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A 153/A 153M, Class C.
- C. Mechanical Fasteners: Corrosion-resistant coated, self-drilling, self-threading steel drill screws.
- D. Insulation: ASTM C 665, Type I, unfaced mineral-fiber sound attenuating blankets.
- E. Galvanizing Repair Paint: SSPC-Paint 20 or DOD-P-21035.

PART 3 - EXECUTION

3.1 FRAMING

- A. Install framing and accessories level, plumb, square, and true to line, and securely fastened, according to ASTM C 1007. Temporarily brace framing until entire integrated supporting structure has been completed and permanent connections are secured.
 - 1. Cut framing members by sawing or shearing; do not torch cut.
 - 2. Fasten framing members by welding or screw fastening.
 - 3. Install insulation in built-up exterior framing members.
 - 4. Fasten reinforcement plates over web penetrations larger than standard punched openings.
- B. Erection Tolerances: Install cold-formed metal framing with a maximum variation of **1/8 inch in 10 feet (1:960)** and with individual framing members no more than plus or minus **1/8 inch (3 mm)** from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
- C. Studs: Install continuous top and bottom tracks securely anchored at corners and ends. Squarely seat studs against webs of top and bottom tracks. Space studs as indicated, set plumb, align, and fasten both flanges of studs to top and bottom tracks.
 - 1. Install and fasten horizontal bridging in stud system, spaced in rows not more than **48 inches (1219 mm)** apart.
 - 2. Install miscellaneous framing and connections to provide a complete and stable wall-framing system.
 - 3. Isolate non-load-bearing, curtain-wall framing from building structure using vertical slide clips or deflection track to prevent transfer of vertical loads while providing lateral support.

END OF SECTION 054000

SECTION 064023 - INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: **Product Data for solid-surfacing materials, Shop Drawings and Samples showing the full range of colors, textures, and patterns available for each type of finish.**
- B. Quality Standard: North American Architectural Woodwork Standard's (NAAWS) AWMAC's Standards Manual.
- C. Forest Certification: Provide woodwork produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."
- D. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is completed, and HVAC system is operating.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Hardboard: AHA A135.4.
 - B. Medium-Density Fiberboard: ANSI A208.2, Grade 130, **made with binder containing no urea formaldehyde.**
 - C. Particleboard: **ANSI A208.1, Grade M-2**
 - D. Softwood Plywood: DOC PS 1.
 - E. Hardwood Plywood and Face Veneers: HPVA HP-1, **made with adhesive containing no urea formaldehyde.**
 - F. Thermoset Decorative Panels: Comply with LMA SAT - 1.
 - G. High-Pressure Decorative Laminate: NEMA LD 3.
- 1. Products:
 - a. Formica, WilsonArt; **Plastic Laminate** Solid Colors, Linen Matte Finish D427-60, or color as selected by owner.

2.2 INTERIOR WOODWORK

- A. Complete fabrication to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.
- C. Interior Standing and Running Trim for Transparent Finish: **Premium** grade, made from **red oak, plain sawn**.
- D. Interior Ornamental Work for Transparent Finish: **Premium** grade, made from **red oak, plain sawn**.

2.3 SHOP FINISHING OF INTERIOR ARCHITECTURAL WOODWORK

- A. Finishes: Same grades as items to be finished.
- B. Finish architectural woodwork at the fabrication shop; defer only final touch up until after installation.
 - 1. Apply one coat of sealer or primer to concealed surfaces of woodwork. **Apply two coats to end-grain surfaces.**
 - 2. Apply a vinyl wash coat to woodwork made from closed-grain wood before staining and finishing.
 - 3. After staining, if any, apply paste wood filler to open-grain woods and wipe off excess. Tint filler to match stained wood.
- C. Transparent Finish: AWI finish system **catalyzed polyurethane**.
- D. Transparent Finish: WI finish System **[5, catalyzed polyurethane]**.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas.
- B. Install woodwork to comply with referenced quality standard for grade specified.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of **1/8 inch in 96 inches (3 mm in 2400 mm)**.
- D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

- E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Fasten with countersunk concealed fasteners and blind nailing. Use fine finishing nails **or finishing screws** for exposed nailing, countersunk and filled flush with woodwork.
- F. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than **36 inches (900 mm)** long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members.
- G. Anchor paneling to supports with concealed panel-hanger clips and by blind nailing on back-up strips, splined-connection strips, and similar associated trim and framing.
- H. Anchor countertops securely to base units. Seal space between backsplash and wall.

END OF SECTION 064023

SECTION 078413 - PENETRATION FIRESTOPPING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and product certificates signed by manufacturer certifying that products furnished comply with requirements.
- B. Provide firestopping systems with fire-resistance ratings indicated by reference to UL designations as listed in its "Fire Resistance Directory," or to designations of another testing agency acceptable to authorities having jurisdiction.
- C. Provide through-penetration firestopping systems with F-ratings indicated, as determined according to ASTM E 814, but not less than fire-resistance rating of construction penetrated.
- D. For exposed firestopping, provide products with flame-spread indexes of less than 25 and smoke-developed indexes of less than 450, as determined according to ASTM E 84.

PART 2 - PRODUCTS

2.1 FIRESTOP SYSTEMS

- A. Any through-penetration firestop system that is **classified by UL** for the application and with F-rating indicated may be used.
- B. **UL-classified** system designations for rated floor penetrations.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install firestopping systems to comply with requirements listed in testing agency's directory for indicated fire-resistance rating.

END OF SECTION 078413

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and color Samples.
- B. Environmental Limitations: Do not proceed with installation of joint sealants when ambient and substrate temperature conditions are outside limits permitted by joint sealant manufacturer or are below **40 deg F (4.4 deg C)**.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under service and application conditions.
- B. Sealant for Use in Building Expansion Joints:
 - 1. Single-component, neutral-curing silicone sealant, ASTM C 920, Type S; Grade NS; Class 25; Uses T, M, and O, with the additional capability to withstand **50 percent movement in both extension and compression for a total of 100 percent movement**.
- C. Sealant for Use in Interior Joints in Ceramic Tile and Other Hard Surfaces in Kitchens and Toilet Rooms and Around Plumbing Fixtures:
 - 1. Single-component, mildew-resistant silicone sealant, ASTM C 920, Type S; Grade NS; Class 25; Uses NT, G, A, and O; formulated with fungicide.
- D. Sealant for Interior Use at Perimeters of Door and Window Frames:
 - 1. Latex sealant, single-component, nonsag, mildew-resistant, paintable, acrylic-emulsion sealant complying with ASTM C 834.
- E. Acoustical Sealant **for Exposed Interior Joints**:
 - 1. Nonsag, paintable, nonstaining, latex sealant complying with ASTM C 834.
- F. Acoustical Sealant for Concealed Joints:
 - 1. Nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.

2.2 JOINT-SEALANT BACKING

- A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer.
- B. Cylindrical Sealant Backings: ASTM C 1330, 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.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with ASTM C 1193.
- B. Comply with ASTM C 919 for use of joint sealants in acoustical applications.

END OF SECTION 079200

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ANSI/SDI A250.8.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cold-Rolled Steel Sheets: ASTM A 1008/A 1008M, suitable for exposed applications.
- B. Hot-Rolled Steel Sheets: ASTM A 1011/A 1011M, free of scale, pitting, or surface defects.
- C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, with **G40 ((Z120) or)A40 (ZF120)** metallic coating.
- D. Frame Anchors: ASTM A 591/A 591M, **4OZ ((12G))** coating designation; mill phosphatized.
 - 1. For anchors built into exterior walls, sheet steel complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M, hot-dip galvanized according to ASTM A 153/A 153M, Class B.
- E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.

2.2 HOLLOW METAL DOORS AND FRAMES

- A. **Available**Products:
 - 1. Nelco, or approved equiv.
- B. Doors: Complying with ANSI 250.8 for level and model and ANSI A250.4 for physical-endurance level indicated, **1-3/4 inches (44 mm)** thick unless otherwise indicated.
 - 1. Interior Doors: **Level 2 and Physical Performance Level B (Heavy Duty), Model 1 (Full Flush)** .
 - 2. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as door face sheets.
- C. Frames: ANSI A250.8; conceal fastenings unless otherwise indicated.

1. Steel Sheet Thickness for Interior Doors: **0.042 inch (1.0 mm)**
 2. Fabricate interior frames with mitered or coped **and continuously welded corners, corners knocked down for field assembly.**
 3. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames.
 4. Frame Anchors: Not less than **0.042 inch (1.0 mm)** thick.
- D. Glazing Stops: Nonremovable stops on outside of exterior doors and on secure side of interior doors; screw-applied, removable, glazing stops on inside, fabricated from same material as door face sheet in which they are installed.
- E. Door Silencers: Three on strike jambs of single-door frames and two on heads of double-door frames.
- F. Grout Guards: Provide where mortar might obstruct hardware operation.
- G. Prepare doors and frames to receive mortised and concealed hardware according to ANSI A250.6 and ANSI A115 Series standards.
- H. Reinforce doors and frames to receive surface-applied hardware.
- I. Prime Finish: Manufacturer's standard, factory-applied coat of lead- and chromate-free primer complying with ANSI/SDI A250.10 acceptance criteria.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install hollow metal frames to comply with ANSI/SDI A250.11.
1. Fire-Rated Frames: Install according to NFPA 80.
- B. Install doors to provide clearances between doors and frames as indicated in ANSI/SDI A250.11.
- C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying rust-inhibitive primer. **Use galvanizing repair paint for metallic coated surfaces.**

END OF SECTION 081113

SECTION 081416 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Samples for **factory-finished** doors.
- B. Quality Standard: WDMA I.S.1-A.
- C. Fire-Rated Wood Doors: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing per **NFPA 252 at positive pressure UL 10C at positive pressure**.
 - 1. At stairs and exit passageways, provide doors that have a temperature rise rating of **450 deg F (250 deg C)**.
- D. Forest Certification: Provide doors produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."

PART 2 - PRODUCTS

2.1 DOOR CONSTRUCTION, GENERAL

- A. WDMA I.S.1-A Performance Grade:
 - 1. Extra Heavy Duty: **Classrooms and storage closet**.
- B. Fire-Protection-Rated Doors: Provide core specified or mineral core as needed to provide fire-protection rating indicated. Provide the following for mineral-core doors:
 - 1. Composite blocking where required to eliminate through-bolting hardware.
 - 2. Laminated-edge construction.
 - 3. Formed-steel edges and astragals for pairs of doors.

2.2 FLUSH WOOD DOORS

- A. Doors for Transparent Finish:
 - 1. Interior Solid-Core Doors: **Premium** grade, **seven-ply**, **particleboard** or **structural composite lumber** cores.
 - a. Faces: Grade A **species and cut** to match existing.
 - b. Veneer Matching: **Book and balance** match.
 - c. Pair matching **and set matching**.

- d. Continuous matching for doors with transoms.

2.3 LOUVERS AND LIGHT FRAMES

- A. Light Frames: Wood beads of **same species as door faces**.

2.4 FABRICATION AND FINISHING

- A. Factory fit doors to suit frame-opening sizes indicated and to comply with clearances specified.
- B. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3.
- C. Cut and trim openings to comply with referenced standards.
 - 1. Trim light openings with moldings indicated.
 - 2. Factory install glazing in doors indicated to be factory finished.
 - 3. Factory install louvers in prepared openings.
- D. Factory finish doors indicated for transparent finish with **stain and** manufacturer's standard finish complying with **WDMA System TR-4, conversion varnish** or **WDMA System TR-6, catalyzed polyurethane** for grade specified for doors.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install doors to comply with manufacturer's written instructions, WDMA I.S.1-A and as indicated.
 - 1. Install fire-rated doors to comply with NFPA 80.
- B. Align **and fit** doors in frames with uniform clearances and bevels. **Machine doors for hardware. Seal cut surfaces after fitting and machining.**
- C. Clearances: As follows, unless otherwise indicated:
 - 1. **1/8 inch (3.2 mm)** at heads, jambs, and between pairs of doors.
 - 2. **1/8 inch (3.2 mm)** from bottom of door to top of decorative floor finish or covering.
 - 3. **1/4 inch (6.4 mm)** from bottom of door to top of threshold.
 - 4. Comply with NFPA 80 for fire-rated doors.
- D. Repair, refinish, or replace factory-finished doors damaged during installation, as directed by Architect.

END OF SECTION 081416

Section 08 56 49
RADIATION SHIELDING GLAZING AND FRAMES

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. The BIDDING REQUIREMENTS, CONTRACT FORMS, and CONTRACT CONDITIONS as listed in the Table of Contents, and applicable parts of Division 1 - GENERAL REQUIREMENTS, shall be included in and made a part of this Section.
- B. Examine all Drawings and all other Sections of the Specifications for requirements therein affecting the work of this Section.

1.2 SUMMARY

- A. The work of this Section consists of radiation shielding frames and glazing where shown on the Drawings, as specified herein, and as required for a complete and proper installation. Work includes, but is not limited to the following:
 - 1. Furnish and install the following:
 - a. Lead lined telescopic hollow metal frames for view windows, complete with internal reinforcing.
 - b. Lead glass.
 - c. Acrylic lead glazing.
 - d. All materials required to properly install glass furnished hereunder, including tapes, setting blocks, and spacers.

1.3 RELATED SECTIONS

- A. Section 01 73 00 - EXECUTION: Waste management and recycling during Final Cleaning.
- B. Section 08 80 00 - GLAZING: Conventional glazing.
- C. Section 09 91 00 - PAINTING: Applied opaque finish coatings to frames.

1.4 REFERENCES

- A. Comply with applicable requirements of the following standards and those others referenced in this Section.
 - 1. American Conference of Government Industrial Hygienists – Industrial Ventilation Manual.
 - 2. American National Standards Institute (ANSI):
 - a. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frame Anchors and Hardware Reinforcing.
 - b. ANSI A250.8 (formerly SDI 100) - Recommended Specifications for Standard Steel Doors and Frames.
 - 3. American Society for Testing and Materials (ASTM):
 - a. ASTM A 109 - Standard Specification for Steel, Strip, Carbon (0.25 Maximum Percent), Cold-Rolled.

- b. ASTM A 415 - Standard Specification for Hot-Rolled Carbon Steel Sheets, Commercial.
- c. ASTM A 568 - Standard Specification for Steel, Carbon and High Strength Low Alloy Hot Rolled Strip, and Cold Rolled Sheet.
- d. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- e. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- f. ASTM A 1008 - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
- g. ASTM B 29 - Standard Specification for Refined Lead.
- 4. Glass Association of North America.
 - a. Glazing Manual (2004 edition).
- 5. International Organization for Standardization (ISO): ISO 9001:2008.
- 6. National Council on Radiation Protection and Measurements (NCRP):
 - a. NCRP Report No. 038 – Protection Against Neutron Radiation.
 - b. NCRP Report No. 147 – Structural Shielding for Medical X-Ray Imaging Facilities.
 - c. NCRP Report No. 148 – Radiation Protection in Veterinary Medicine.
 - d. NCRP Report No. 151 – Structural Shielding Design and Evaluation for Megavoltage X- and Gamma Ray Radiotherapy Facilities.
- 7. Steel Door Institute (SDI):
 - a. SDI 111 Series (111A-111F): Recommended Details, Steel Doors and Frames.
 - b. SDI 117-93: Manufacturing Tolerances for Standard Steel Doors and Frames.
- 8. U.S. Department of Labor Occupational Safety and Health Administration (OSHA):
 - a. OSHA standard 29 CFR 1910.1025 – Lead.
 - b. OSHA standard 29 CFR 1926 – Safety and Health Regulations for Construction.
 - c. OSHA standard 29 CFR 1926.62 – Lead.
 - d. CAL-OSHA Title 8 Sec 1532.1, Sec 5198, and Sec 5216
- 9. All applicable federal, state, and municipal codes, laws, and regulations for fire rated assemblies.

1.5 SUBMITTALS

- A. Submit the following under provisions of Section 01 33 00 - SUBMITTAL PROCEDURES:
 - 1. Literature: Manufacturer's product data sheets, specifications, performance data, physical properties, and installation instructions for each item furnished hereunder.
 - a. Recycled material content: Indicate recycled content and provide manufacturer's written certification of recycled steel and lead products (LEED™ NC Version 2.2 Credits MR 4.1 and 4.2).
 - 1) Indicate percentage both post-consumer and pre-consumer recycled content per unit of product.

RADIATION SHIELDING GLAZING AND FRAMES

- b. Local / regional materials (LEED™ NC Version 2.2 Credit MR 5.1):
 - 1) Indicate location of extraction, harvesting, and recovery; indicate the distance between extraction, harvesting, and recovery and the project site.
 - 2) Indicate location of manufacturing facility; indicate distance between manufacturing facility and the project site.
- c. Include certification of data indicating Volatile Organic Compound (VOC) content of all joint sealants. Submit MSDS highlighting VOC limits. (LEED™ NC Version 2.2 Credit EQ 4.1)
- 2. Product data sheets on door and frame products: Provide chemical, functional, and environmental characteristics, size limitations, and special application requirements. Identify available colors.
- 3. Product data sheets on glazing products: Provide chemical, functional, and environmental characteristics, size limitations, and special application requirements.
- 4. Shop drawings: Show sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades.
 - a. 1/4 inch scale elevations and plans of each type of glazing assembly; Verify dimensions with field measurements.
- 5. Certification: Manufacturer's written certification stating that frames, and all related items to be furnished hereunder, meet or exceed the requirements specified under this Section; that specified shop priming/finishing has been performed.
- 6. Manufacturer's instructions: Manufacturer's installation instructions and diagrams for components installed under other trades.

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA - Glazing Manual.
- B. Installers:
 - 1. Installers, foreman, and job supervisors for the Work of this Section shall be trained by, and approved by, product manufacturer. Foreman and job supervisors shall be certified by manufacturer to have not less than 5 years experience in the installation of neutron / radiation shielding.
 - 2. All construction workers, foreman, and job supervisors for the work of this section shall have a minimum certification of 10 hours of OSHA training in occupational safety and health.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Store and handle glass and acrylic in strict compliance with manufacturer's instructions and recommendations of GANA Glazing Manual. Use clean gloves and tools when handling materials, avoid contamination. Use rolling blocks and suction cups to move glass units not in shipping crates.
 - 1. Carefully store materials to avoid overloading any building component or structure.
- B. Do not deliver items to the site, until all specified submittals have been submitted to, and approved by, the Architect.
- C. Prior to shipping, identify each lead lined frame with a removable metal or plastic label which corresponds with door schedule identifying opening number and location.

- D. Deliver materials boxed or crated to provide protection during transit and job storage.
- E. Inspect frames upon delivery for damage. Minor damage may be repaired provided the refinished items are equal in respects to new work and acceptable to the Architect; otherwise remove and replace damaged items.
- F. Store frames at the building site upright and under cover. Place the units on wood dunnage and cover in a manner that will prevent rust and damage.

1.8 FIELD MEASUREMENTS

- A. Take field measurements before preparation of shop drawings and fabrication, where possible, to ensure proper fitting of Work.
- B. Allow for adjustments within specified tolerances wherever taking of field measurements before fabrication might delay Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Specified Manufacturer: To establish a standard of quality, design and function desired, Drawings and specifications have been based on products of NELCO, 2 Burlington Woods Dr, Suite 300, Burlington, MA 01803, www.nelcoworldwide.com (telephone 800-635-2613).
 - 1. Manufacturing Facilities:
 - a. NELCO Boston: 3 Gill St - Unit D, Woburn, MA 01801
 - b. NELCO Houston: 4600 Homestead Road, Houston, TX 77028
 - c. NELCO San Francisco: 1840 Williams Street, San Leandro, CA 94577
- B. Alternative products (substitutions): Contractor must furnish appropriate and complete product data, proof of ISO 9001:2008 certification, worker OSHA certifications, environmental characteristics, and sample warranty with bid for the Architect to consider the substitutions as "equal" to the manufacturer, product specified and quality assurance requirements. Further additional information may be requested by the Architect for determination that the proposed product substitution is fully equal to the specified products. There is no guarantee that proposed substitutions will be approved, and the Contractor is hereby directed not to order any materials until said approval(s) are received in writing.
 - 1. Requesting substitutions is at the Contractor's own risk, with regard to uncompensated delays of the Project. Time is required for sufficient review and for additional requests of information. Delays of work which result from substitution reviews and resubmissions are not grounds for additional time or cost change orders, and will not be considered by the Owner.

2.2 LEAD LINED HOLLOW METAL FRAMES

- A. General: Refer to the Drawings for various types of frames, sizes, and profiles, UL fire-resistive label frames, and other characteristics of frames and related items.
 - 1. Frame type: Telescopic frames with mitered joints arc-welded, reinforced and ground smooth.

RADIATION SHIELDING GLAZING AND FRAMES

2. Frame type: Shop welded frames with mitered joints arc-welded, reinforced and ground smooth.
- B. Materials for frames, reinforcement, anchors, anchor clips, and related items: commercial grade cold-rolled steel conforming to ASTM A109 or commercial grade hot-rolled and pickled steel conforming to ASTM A415.
1. Frame gage: 16-gage, 0.053 inch thick.
 2. Hinge, lock, and strike reinforcement: 7 gage thick.
 3. Door closer reinforcement: 12 gage, minimum 0.093 inch thick.
 4. Glazing stops: 16 gage, minimum 0.053 inch thick.
 5. Shop-fabricate frames as whole single units per opening, except when frame size is too large to ship as a single unit. Oversized frames may be shipped in large sections as practicable for field assembly with concealed splice plates or channels.
 6. Reinforcements, stiffeners, and base angle clips: Welded to interior surfaces of frames to provide a stable base and so as to not interfere with installation of hardware.
 7. Appearance of finished frames: Strong, rigid, completely free from warp and buckle, with miters well formed and in true alignment, and with surfaces smooth and free from defects of any kind.
 8. Glazing beads: Carefully place to properly accommodate the various thicknesses of glass and glazing materials, and loosely-attach to frames with flathead galvanized steel screws through pre-drilled holes having countersunk depressions.
 9. Line frames with sheet lead of same thickness as scheduled for partitions in which they occur.
 - a. Install sheet lead free of waves, lumps, and wrinkles with as few joints as possible.
 - b. Form and permanently adhere lead around and concealed behind the frame.
 10. Anchorage:
 - a. Anchor clips for frames in metal stud partitions: 16-gage steel z-shaped clips, 1-1/2 inch upturned and downturned legs, or equivalent type standard with the manufacturer, contained within the frames, for screw attachment to metal studs under Section 09 22 16 - NON-STRUCTURAL METAL FRAMING.
 - b. Provide not less than 3 anchors, clips, or bolts, per jamb, as applicable.

2.3 LEAD SHEET

- A. General Sustainability Requirements: Use maximum available percentage of recycled materials but not less than that required to meet LEED™ NC, Version 2.2 Credit MR 5.2
 - 1. Lead Backing: Lead sheet incorporated into the work shall contain not less than 100 percent of pre-consumer recycled materials.
- B. Lead sheet: Conforming to ASTM B 29 in uniform thickness(es) as required by Physicist of Record report(s).

2.4 LEAD GLASS

- A. Provide clear x-ray lead glass with a thickness approximately 5/16 to 3/8 inch and installed in single or multiple layers to provide a lead equivalent as required by Physicist of Record report(s).

2.5 LEAD ACRYLIC GLAZING

- A. Provide shatter-resistant, distortion-free optical clarity lead acrylic glazing.
- B. Fabricate lead acrylic glazing from acrylic copolymer resin into which lead is chemically introduced as an organolead salt compound. Provide polished lead acrylic glazing containing 30 percent minimum lead by weight.
- C. Install in single or multiple thicknesses to provide a lead equivalent as required by Physicist of Record report(s).

2.6 ACCESSORIES

- A. Glazing tape: Preformed butyl-polyisobutylene rubber with 100 percent solids contained in extruded tape roll form and complying with AAMA 804.1; coiled on release paper; of sizes required for proper glazing, equal to one of the following or an approved equal:
 - 1. CRL 74418X38BL
 - 2. Pemko FG3000S45
 - 3. Pemko FG3000S90
 - 4. CRL 98418x38BL
- B. Setting blocks/Spacers: As required

2.7 FABRICATION TOLERANCES

- A. Maximum variation for lead lined frames: Maximum diagonal distortion 1/16 inch measured with straight edge, corner to corner.

2.8 FACTORY FINISHING

- A. Preparation: Pressure-sand all surfaces of all frames, accessory items, anchors, and related items, to remove blemishes and foreign matter and provide paint grip. Spot-fill

RADIATION SHIELDING GLAZING AND FRAMES

imperfections with metallic filler and sand smooth. Thoroughly clean the surfaces by applying hot or cold phosphate treatment standard with the manufacturer.

- B. Following cleaning apply one dip or spray coat of rust-inhibitive metallic oxide, zinc chromate, or synthetic resin primer to all surfaces, including those which will be concealed after erection. Bake, or oven dry, the primer at time and temperature recommended by the manufacturer for developing maximum hardness and resistance to abrasion.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that opening sizes and tolerances are acceptable and in compliance with these specifications and applicable codes.
- B. Inspect glazing receiving surfaces and ensure that they are dry and free from dust, or other foreign materials before glazing. Clean all surfaces with cloth saturated with mineral spirits of high-flash naphtha as recommended by glazing tape manufacturer, before glazing.
- C. Check all openings, prior to glazing, to make certain that the opening is square, plumb and secure in order that uniform face and edge clearances are maintained.
- D. Beginning of installation means acceptance of existing conditions.

3.2 PROTECTION

- A. During the operation of the Work of this Section, protect existing work against damage by the exercise of reasonable care and precautions. Repair all existing materials which are damaged by Work of this Section, to match original profiles and finishes. Existing materials repaired shall be removed and replaced with new work to match existing.

3.3 INSTALLATION OF FRAMES

- A. Pre-coordination for rough openings in framing.
- B. General: Install frames in accordance with the manufacturer's recommendations, and applicable parts of ANSI A250.8. Install with a maximum diagonal distortion of 1/16 inch measured with a straight edge, corner to corner.
- C. Place in position all steel frames, in accordance with the approved shop drawings and frame schedule.
 - 1. Coordinate installation of frames with the various trades installing abutting wall construction for anchor placement and continuity of lead lining.
 - 2. Provide rigid temporary bracing for frames as required to ensure maintenance of positioning, and remove only after frames have been permanently anchored.
 - 3. Where exposed fastener heads occur in frames, fill with automotive body filler and sand smooth.

3.4 GLAZING

- 1. Utilize dry glazing methods for field installation of glass in interior doors and frames.

2. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (2 mm) above sight line.
3. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane.
4. Place glazing tape on free perimeter of glazing in manner as described above.
5. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
6. Trim protruding tape neatly.

3.5 INSTALLED TOLERANCES

- A. Maximum variation from plumb or level: 1/8 inch.
- B. Maximum offset from true dimensional alignment: 1/8 inch.

3.6 FIELD QUALITY CONTROL AND ADJUSTING

- A. Field inspection will be performed under the provisions of Section 01 45 00 - QUALITY CONTROL.
 1. Physicist testing will be performed under separate contract with Owner.

3.7 CLEANING

- A. General: Clean work under provisions of Section 01 73 00 - EXECUTION.
 1. Upon completion of the work of this Section in any given area, remove tools, equipment and all rubbish and debris from the work area.
- B. Daily clean work areas by disposing of debris, scraps, and lead. Vacuum floor surfaces with HEPA (High Efficiency Particulate Air filter) vacuum in compliance with OSHA Standard 1926.62.
- C. After completion of the work of this Section, remove rubbish, tools and equipment, and clean all wall, partition, and floor areas free from deposits of lead, and other materials installed under this Section. Vacuum surfaces with HEPA vacuum in compliance with OSHA Standard 1926.62.
- D. Clean glass surfaces promptly after installation, exercising care to avoid damage to the same. Remove excess glazing tape, labels, dirt, and other contaminants.

3.8 PROTECTION

- A. General Contractor is responsible to protect finished work under provisions of Section 01 50 00 - TEMPORARY FACILITIES AND CONTROLS.
- B. Protect glass from breakage immediately upon installation. Use streamers or ribbons suitably attached to framing and held free of the glass. Do not apply warning markings directly to the glass.

End of Section

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Allowances: Provide hardware under Hardware Allowance in Division 01 Section "Price and Payment Procedures."
- B. Submittals: Hardware schedule **and keying schedule**.
- C. Deliver keys to Owner.
- D. Fire-Resistance-Rated Assemblies: Provide products that comply with NFPA 80 and are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for applications indicated. On exit devices provide label indicating "Fire Exit Hardware."

PART 2 - PRODUCTS

2.1 HARDWARE

- A. Manufacturers:
 - 1. Basis of Design: Sargent or hardware manufacturer to match existing hardware and keying
- B. Hinges:
 - 1. **Stainless-steel** hinges with stainless-steel pins for exterior.
 - 2. Nonremovable hinge pins for exterior and public interior exposure.
 - 3. Ball-bearing hinges for doors with closers and entry doors.
 - 4. 2 hinges for **1-3/8-inch- (35-mm-)** thick wood doors.
 - 5. 3 hinges for **1-3/4-inch- (45-mm-)** thick doors **90 inches (2300 mm)** or less in height; 4 hinges for doors more than **90 inches (2300 mm)** in height.
- C. Locksets and Latchsets:
 - 1. BHMA A156.2, Series 4000, **Grade 1** for bored locks and latches.
 - 2. BHMA A156.3, Grade 1 for exit devices.
 - 3. BHMA A156.5, **Grade 1** for auxiliary locks.
 - 4. BHMA A156.12, Series 5000, **Grade 1** for interconnected locks and latches.
 - 5. BHMA A156.13, Series 1000, **Grade 1** for mortise locks and latches.
 - 6. **Lever handles** on locksets and latchsets, ADA Compliant
 - 7. Provide trim on exit devices matching locksets.
- D. Key locks to Owner's **existing** master-key system.

1. Cylinders with **five** or **six**-pin tumblers **and removable cores**, to match existing.
2. Provide cylinders for locking doors that do not require other hardware.
3. Provide construction keying.
4. Provide key control system, including cabinet.

E. Closers:

1. Mount closers on interior side (room side) of door opening. Provide regular-arm, parallel-arm, or top-jamb-mounted closers as necessary.
2. Adjustable delayed opening (accessible to people with disabilities) feature on closers.

F. Provide wall stops or floor stops for doors without closers.

G. Provide hardware finishes as follows:

1. Hinges: **Matching finish of lockset/latchset.**
2. Locksets, Latchsets, and Exit Devices: **Satin chrome plated.**
3. Closers: **Matching finish of lockset/latchset**
4. Other Hardware: Matching finish of lockset/latchset.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mount hardware in locations recommended by the Door and Hardware Institute unless otherwise indicated.

3.2 HARDWARE SCHEDULE

A. Hardware Set No. 1

1. Hinges.
2. Electrified Cylindrical **entry lock (F04) to coordinate with x-ray equipment.**
3. Closer.

- B. Hardware Set No. 2 Hardware set in first paragraph below is for residential or nonresidential interior door.

1. Hinges.
2. Cylindrical **entry lock (F04).**
3. Closer.

C. Hardware Set No. 3

1. Hinges.
2. Cylindrical **store room or closet lock (F86).**
3. Closer.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

END OF SECTION

SECTION 092900 - GYPSUM BOARD

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- C. STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 90 and classified per ASTM E 413 by a qualified independent testing and inspecting agency.

PART 2 - PRODUCTS

2.1 PANEL PRODUCTS

- A. Provide in maximum lengths available to minimize end-to-end butt joints.
- B. Interior Gypsum Board: ASTM C 36/C 36M or ASTM C 1396/C 1396M, in thickness indicated, with manufacturer's standard edges. **Type X**
- C. Water-Resistant Gypsum Backing Board: ASTM C 630/C 630M or ASTM C 1396/C 1396M, in thickness indicated. **Type X**.
- D. Cementitious Backer Units: ANSI A118.9.

2.2 ACCESSORIES

- A. Trim Accessories: ASTM C 1047, formed from galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet. For exterior trim, use accessories formed from hot-dip galvanized-steel sheet, plastic, or rolled zinc.
 - 1. Provide cornerbead at outside corners unless otherwise indicated.
 - 2. Provide LC-bead (J-bead) at exposed panel edges.
 - 3. Provide control joints where indicated.
- B. Aluminum Accessories: Extruded-aluminum accessories indicated with **manufacturer's standard corrosion-resistant primer**.
- C. Joint-Treatment Materials: ASTM C 475/C 475M.

1. Joint Tape: Paper unless otherwise recommended by panel manufacturer.
 2. Joint Compounds: **Setting-type taping compound and drying-type, ready-mixed, compounds for topping.**
 3. Skim Coat: For final coat of Level 5 finish, use **high-build interior coating product designed for application by airless sprayer and to be used instead of skim coat to produce Level 5 finish.**
 4. Cementitious Backer Unit Joint-Treatment Materials: Products recommended by cementitious backer unit manufacturer.
- D. Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.
- E. Sound-Attenuation Blankets: ASTM C 665, Type I (unfaced).

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install gypsum board to comply with ASTM C 840.
1. Isolate gypsum board assemblies from abutting structural and masonry work. Provide edge trim and acoustical sealant.
 2. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws.
 3. Multilayer Fastening Methods: Fasten base layers **and face layer separately to supports with screws**
- B. Install cementitious backer units to comply with ANSI A108.11.
- C. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.
- D. Finishing Gypsum Board: ASTM C 840.
1. At concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies, provide Level 1 finish: Embed tape at joints.
 2. At substrates for tile, provide Level 2 finish: Embed tape and apply separate first coat of joint compound to tape, fasteners, and trim flanges.
 3. Unless otherwise indicated, provide Level 4 finish: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges.
 4. Where indicated, provide Level 5 finish: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. Apply skim coat to entire surface.
- E. Glass-Mat, Water-Resistant Backing Panels: Finish according to manufacturer's written instructions.
- F. Cementitious Backer Units: Finish according to manufacturer's written instructions.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

- G. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture free of starved spots or other evidence of thin application or of application patterns.

END OF SECTION 092900

SECTION 095123 - ACOUSTICAL TILE CEILINGS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and material Samples.
- B. Surface-Burning Characteristics of Panels: ASTM E 1264, **Class A** materials, tested per ASTM E 84.
- C. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- D. Seismic Standard: Provide acoustical tile ceilings designed and installed to withstand the effects of earthquake motions according to the following:
 - 1. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings - Seismic Zones 0-2."
 - 2. CISCA's Guidelines for Systems Requiring Seismic Restraint: Comply with CISCA's "Guidelines for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies - Seismic Zones 3 & 4."
 - 3. UBC Standard 25-2, "Metal Suspension Systems for Acoustical Tile and for Lay-in Panel Ceilings."

PART 2 - PRODUCTS

2.1 ACOUSTICAL TILE

- A. **Available** Products:
 - 1. CertainTeed, Armstrong
- B. Classification: As follows, per ASTM E 1264:
 - 1. Type and Form: **Type III, Form 1**
 - 2. Pattern: Fine fissured or pattern to match existing ceiling tile
 - 3. Color: **White**
- C. Edge Detail: **Beveled, kerfed and rabbeted, or tongue and grooved, or butt** to match existing tiles
- D. Thickness: **¾ inch (19.05 mm)** or thickness to match existing

- E. Modular Size: 24 by 24.

2.2 SUSPENSION SYSTEM

- A. Ceiling Suspension System: existing.
- B. Attachment Devices: Size for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated.
- C. Wire Hangers, Braces, and Ties: Zinc-coated carbon-steel wire; ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
 - 1. Size: Provide yield strength at least 3 times the hanger design load (ASTM C 635, Table 1, Direct Hung), but not less than ~~0.135-inch-~~ (3.5-mm-) diameter wire.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Ceiling Suspension System Installation: Comply with **ASTM C 636** and CISCA's "Ceiling Systems Handbook." Existing system shall not be disturbed.
 - 1. Fire-Rated Assembly: Install fire-rated ceiling systems according to tested fire-rated design.
- B. Install acoustical tiles in coordination with suspension system and exposed moldings and trim. Place splines or suspension system flanges into kerfed edges so tile-to-tile joints are closed by double lap of material.
 - 1. Fit adjoining tile to form flush, tight joints. Scribe and cut tile for accurate fit at borders and around penetrations through tile.

END OF SECTION 095123

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Samples.
- B. Extra Materials: Deliver to Owner at least 120 **linear feet (linear m)**, of each type and color of resilient wall base installed.

PART 2 - PRODUCTS

2.1 WALL BASE

- A. **Available** Products:
 - 1. Mannington Type TP/TV
- B. Color and Pattern: Gray Beige, Traditional Vinyl with toe (Type TV)
- C. ASTM F 1861, **Type TV (vinyl)**
- D. Group (Manufacturing Method): **I (solid, homogeneous) or II (layered)**
- E. Style: **Cove (with top-set toe)**.
- F. Minimum Thickness: **0.080 inch (2.0 mm)** or **0.125 inch (3.2 mm)**.
- G. Height: **4 inches (101.6 mm)**
- H. Lengths: **coils in manufacturer's standard lengths**.
- I. Outside Corners: **Job formed or premolded**.
- J. Inside Corners: **Job formed or premolded**

2.2 RESILIENT ACCESSORY

- A. **Available** Products:
 - 1. Mannington
- B. Color: Beige

- C. Description: **Joiner for tile and LVT**
- D. Material: **Vinyl**
- E. Profile and Dimensions: CTA-XX-A, 1-3/8" cap with 1/8" wide support.

2.3 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by flooring manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by manufacturer to suit products and substrate conditions.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Prepare concrete substrates according to ASTM F 710. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
- B. Adhesively install resilient wall base and accessories.
- C. Install wall base in maximum lengths possible. Apply to walls, columns, pilasters, casework, and other permanent fixtures in rooms or areas where base is required.
- D. Install reducer strips at edges of floor coverings that would otherwise be exposed.

END OF SECTION 096513

SECTION 096519 - RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Samples.

PART 2 - PRODUCTS

2.1 LUXURY VINYL COMPOSITION FLOOR TILE

- A. **Available** Products:
 - 1. Mannington Amtico Signature Collection Abstract
- B. Color and Pattern: Etch Ephemeral (AROJET11) and Diffusion Chambray (ARODF39)
- C. ASTM F 1700, **Class 3, Type B**.
- D. Wearing Surface: **Quantum Guard Elite 40 mil**
- E. Thickness: Overall **0.098 inch**
- F. Size: **18 by 18 inches**
- G. **Warranty: 25 year**

2.2 INSTALLATION ACCESSORIES –

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by flooring manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
- C. Metal Edge Strips: Extruded aluminum in maximum available lengths to minimize joints.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Prepare concrete substrates according to ASTM F 710. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
- B. Lay out tiles so tile widths at opposite edges of room are equal and are at least one-half of a tile.
- C. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged. Lay tiles **with grain running in one direction.**
- D. Clean per manufacturer's recommendation.

END OF SECTION 096519

SECTION 099100 - PAINTING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Summary: Paint exposed surfaces, **new and existing**, unless otherwise indicated.
 - 1. Paint the back side of access panels.
 - 2. Color-code mechanical piping in accessible ceiling spaces.
 - 3. Do not paint prefinished items, items with an integral finish, operating parts, and labels unless otherwise indicated.
- B. Submittals:
 - 1. Product Data. **Include printout of "MPI Approved Products List" with product highlighted.**
 - 2. Samples.
- C. MPI Standards:
 - 1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
 - 2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.
- D. Mockups: Full-coat finish Sample of each type of coating, color, and substrate, applied where directed.
- E. Extra Materials: Deliver to Owner **1 gal. (3.8 L)** of each color and type of finish coat paint used on Project, in containers, properly labeled and sealed.

PART 2 - PRODUCTS

2.1 PAINT

- A. **Available** Products:
 - 1. Sherwin Williams, ProMar 200 Zero VOC Interior Latex and compatible Primer.
- B. Material Compatibility: Provide materials that are compatible with one another and with substrates.
 - 1. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

- C. Colors: Rain SW6219 or as **selected** by owner

PART 3 - EXECUTION

3.1 PREPARATION

- A. Remove hardware, lighting fixtures, and similar items that are not to be painted. Mask items that cannot be removed. Reinstall items in each area after painting is complete.
- B. Clean and prepare surfaces in an area before beginning painting in that area. Schedule painting so cleaning operations will not damage newly painted surfaces.

3.2 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
1. Use brushes only for exterior painting and where the use of other applicators is not practical.
 2. Use rollers for finish coat on interior walls and ceilings.
- B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
1. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- C. Apply stains and transparent finishes to produce surface films without color irregularity, cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other imperfections. Use multiple coats to produce a smooth surface film of even luster.

3.3 INTERIOR PAINT APPLICATION SCHEDULE

- A. Gypsum Board:
1. **Eggshell** Latex: **Two coats** over primer/sealer: MPI INT 9.2A.

END OF SECTION 099100

SECTION 12 24 00

MANUAL LIGHTBLOC ZIP™ WINDOW SHADES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Opaque window shade system: Manually operated, roll-up fabric opaque window shade system for complete blackout of window opening including side and bottom channels, headbox, manual operator, and mounting hardware.

1.2 RELATED SECTIONS

- A. Section 07 92 00 - Joint Sealants.
- B. Section 09 29 00 - Gypsum Board.
- C. Section 09 51 23 - Acoustical Tile Ceilings.

1.3 REFERENCES

- A. NFPA 701-99 - Fire Tests for Flame-Resistant Textiles and Films.
- B. Greenguard and Greenguard Gold.
- C. US Green Building Council.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 26 - Source Quality Control Reporting:
- B. Product Data: Manufacturer's data sheets on each product specified, including:
 - 1. Preparation instructions and recommendations.
 - 2. Installation and maintenance instructions.
 - 3. Styles, material descriptions, dimensions of individual components, profiles, features, finishes and operating instructions.
 - 4. Storage and handling requirements and recommendations.
 - 5. Mounting details and installation methods.
- C. Window Treatment Schedule: For all roller shades. Use same room designations as indicated on the Drawings, field verified window dimensions, quantities, type of shade, controls, fabric, and color, and include opening sizes and key to typical mounting details.
- D. Verification Samples: For each finish product specified, two complete sets of shade components, unassembled, demonstrating compliance with specified requirements. Shade fabric sample and aluminum finish sample as selected, representing actual product, color, and patterns. Mark face of material to indicate interior faces.
- E. Maintenance Data: Methods for maintaining roller shades, precautions regarding

cleaning materials and methods, instructions for operating hardware and controls.

- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Obtain roller shades through one source from a single manufacturer with a minimum of twenty years' experience in manufacturing products comparable to those specified in this section.
- B. NFPA Flame-Test: Passes NFPA 701. Materials tested shall be identical to products proposed for use.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver window shades until building is enclosed and construction within spaces where shades will be installed is substantially complete.
- B. Deliver products in manufacturer's original, unopened, undamaged containers with labels intact.
- C. Label containers and shades according to Window Shade Schedule.
- D. Store products in manufacturer's unopened packaging until ready for installation.

1.7 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.8 PROJECT CONDITIONS

- A. Install roller shades after finish work and ambient temperature, humidity and ventilation conditions are maintained at levels recommended for project upon completion.

1.9 WARRANTY

- A. Hardware and Shade Fabric: Draper's standard twenty-five year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Draper™, Inc., which is located at: 411 S. Pearl P. O. Box 425 ; Spiceland, IN 47385-0425; Toll Free Tel: 800-238-7999; Tel: 765-987-7999; Email: [request info](#); Web: www.draperinc.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 OPAQUE ZIPPER WINDOW SHADE SYSTEM

- A. Operation Type: Crank operated, vertical roll-up, fabric, opaque window shade system, complete with headbox, side and sill channels for total opacity; LightBloc ZIP™ FlexShade® System as manufactured by Draper, Inc.
- B. Operation: Crank operated shades:
 - 1. Crank handle.
 - a. Detachable anodized aluminum and chrome plated steel handle:
 - b. Permanently mounted anodized aluminum and chrome plated steel handle:
 - c. Size: 4 feet (122 cm). (Surface Mounted Shade)
 - d. Size: 6 feet (183 cm). (Recessed Shade)
 - 2. .
- C. Roller Tube: 2.364" (60 mm) dia. Aluminum with 0.049" (1.245 mm) wall;.
- D. Headbox: Consists of extruded aluminum sections with endcaps and opacity plates.
 - 1. Size: [3-5/8" (92 mm) tall x 35/8" (92 mm) deep] [5" (127 mm) tall x 5" (127 mm) deep) by length required for shade being provided.
 - 2. L-shaped removable front face and bottom cover and L-shaped back and top.
- E. Endcaps: Stamped steel with universal design suitable for mounting to ceiling, wall, and jamb. Provide size compatible with roller size.
- F. Side Channels/Retention System: Side channels to be extruded aluminum and incorporate plastic inner channels. Plastic inner channels to be held inside the extrusion by means of cushioning pads that also dampen the movement of the fabric panel under wind load. 'Zip' details on the edges of the fabric panel to run in the inner channels to retain the fabric in place.
- G. Hem bar: Aluminum, with steel weight to reduce fabric movement. Color to match headbox.
- H. Exposed aluminum finish:
 - 1. Finish: White. or
 - 2. Finish: Ivory.
 - 3. as selected by the Architect.

2.3 FABRIC

- A. Room Darkening Fabrics
 - 1. **SheerWeave® Series SW7001 Blackout by Phifer®: PVC-free polyester with acrylic foamed backing. Fire rating: California U.S. Title 19 (small scale), BS 5867 Part 2 Type B Performance, IBC Section 803.1.1 (Class A Rating), NFPA 101 (Class A Rating), NFPA 701 TM#1 (small scale), CAN/ULC-S 109 (large and small scale), CAN/CGSB2-4. 162-M80. Bacteria and fungal resistance: ASTM G21, AATCC 174-1998 Part II and III. Environmental certification: Certified to GREENGUARD® and GREENGUARD Gold® standards for low chemical emissions into indoor air during product usage. Safe use:**

RoHS/Directive 2002/95/EC, US Consumer Product Safety Commission Section 101 and ANSI/WCMA A 100.1-2007 for lead content. Draper shades made with this fabric are GreenSpec® listed. Opaque, .030 inches thick, 13.92 oz/square yard.

A. Color and pattern: As indicated in Color Schedule on Drawings, or .

B.as selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Coordinate requirements for blocking, construction of shade pockets (where applicable), and structural supports to ensure adequate means for installation of window shades.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install roller shades level, plumb, square, and true. Allow proper clearances for window operation hardware.

C. Install headbox, side channels, and sill channel with sealant specified in Section 07 90 00 - Joint Protection.

D. Position shades level, plumb, and at proper height relative to adjacent construction. Secure with fasteners recommended by manufacturer.

3.4 TESTING AND DEMONSTRATION

A. Test window shades to verify that controls, limit switches, interface to other building systems, and other components are functional. Correct deficiencies.

B. Test window shades to verify that operating mechanism, fabric retainer, and other operating components are functional. Correct deficiencies.

C. During daylight hours, lower shades and turn off interior lights. Verify that there are no light leaks at perimeter or within shade assembly. Correct deficiencies.

D. Demonstrate operation of shades to Owner's designated representatives.

3.5 PROTECTION

A. Protect installed products until completion of project.

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

B. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 SCHEDULES

A. Refer to Drawings for shade types and locations.

END OF SECTION

SECTION 123661. - SOLID SURFACING COUNTERTOPS

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 countertops.
 - 2. Solid surface vanities.
 - 3. Solid surface material backsplashes.
 - 4. Solid surface adhesives and sealants.
- B. Related Requirements:
 - 1. Section 064023 "Interior Architectural Woodwork.
 - 2. Section 220000 " Plumbing " for **sinks and plumbing fittings**.

1.3 ACTION SUBMITTALS

- A. Product Data: For countertop materials including manufacturer's technical data sheets, and published written instructions.
- B. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, terminations, and cutouts.
 - 1. Show locations and details of joints.
 - 2. Show direction of directional pattern, if any.
- C. Samples for Initial Selection: For each type of material exposed to view.
- D. Samples for Verification: For the following products:
 - 1. Countertop material, **6 inches (150 mm)** square.
 - 2. Wood trim, **8 inches (200 mm)** long.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer and fabricator.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For solid surface material countertops 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.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ISO 9001 quality management system certification for manufacturing facility(ies).
- B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate countertops similar to that required for this Project, and whose products have a record of successful in-service performance.
 - 1. Manufacturer-certified fabricator.
- C. Installer Qualifications: Manufacturer certified fabricator of countertops.
 - 1.].

1.7 FIELD CONDITIONS

- A. Field Measurements: Verify dimensions of countertops by field measurements before countertop fabrication is complete.

1.8 COORDINATION

- A. Coordinate locations of utilities that will penetrate countertops or backsplashes.

1.9 WARRANTY

- A. Manufacturer's Warranty: Manufacturer and installer agree to repair or replace sheet material not free from defects in materials, fabrication, or workmanship within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOLID SURFACE COUNTERTOP AND WALL MATERIALS

- A. Composition Solid-Surface Material: Homogeneous-filled plastic resin complying with ICPA SS-1.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Wilsonart LLC; [051] [025] or a comparable product by one of the following:
 - a.
 - b. Formica Corporation.
 - c. Swan Corporation (The).
 2. Thickness: **0.490 inch (12.4 mm)**
 3. Panel Weight: **4.4 lb/sq. ft. (21.5 kg/sq. m)**
 4. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: **25** or less.
 - b. Smoke-Developed Index: **50** or less.
 5. Colors and Patterns: **As selected by Architect from manufacturer's full range.**
- B. Composite Wood Products: Products shall be made using ultra-low-emitting formaldehyde resins as defined in the California Air Resources Board's "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" or shall be made with no added formaldehyde.
- C. Particleboard: ANSI A208.1, **Grade M-2**
- D. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.
- 2.2 COUNTERTOP FABRICATION
- A. Fabricate countertops according to solid surface material manufacturer's written instructions and to the AWI/AWMAC/WT's "Architectural Woodwork Standards."
1. Grade: **Premium**
- B. Configuration:
1. Front: **1-1/2-inch (38-mm)** w/ **bullnose**
 2. Backsplash: **Straight, slightly eased at corner**
 3. End Splash: **None.**
- C. Countertops: **1/2-inch (12.7-mm)** thick, solid surface material with front edge built up with same material.
- D. Backsplashes: **1/2-inch (12.7-mm)** thick, solid surface material.
- E. Fabricate tops with shop-applied edges **and backsplashes**, where noted unless otherwise indicated. Comply with solid surface material manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
1. Fabricate with loose backsplashes for field assembly.

F. Joints: Fabricate countertops without joints.

G. Cutouts and Holes:

1. Undercounter Plumbing Fixtures: Make cutouts for fixtures using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves.
 - a. Provide vertical edges, slightly eased at juncture of cutout edges with top and bottom surfaces of countertop.
 - b. Provide vertical edges, rounded to **3/8-inch (10-mm)** radius at juncture of cutout edges with top surface of countertop, slightly eased at bottom.
2. Counter-Mounted Plumbing Fixtures: Prepare countertops in shop for field cutting openings for counter-mounted fixtures. Mark tops for cutouts and drill holes at corners of cutout locations. Make corner holes of largest radius practical.
3. Fittings: Drill countertops in shop for plumbing fittings, grommets, and similar items.

2.3 INSTALLATION MATERIALS

A. Adhesive: Product recommended by solid surface material manufacturer.

1. Adhesives shall have a VOC content of **70g/L** or less.

B. Sealant for Countertops: Comply with applicable requirements in Section 079200 "Joint Sealants."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates to receive solid surface material countertops and conditions under which countertops will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of countertops.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install countertops level to a tolerance of **1/8 inch in 8 feet (3 mm in 2.4 m)**, **1/4 inch (6 mm)** maximum. Do not exceed **1/64-inch (0.4-mm)** difference between planes of adjacent units.
- B. Fasten countertops by adhering with 100-percent silicone material in dab format (not bead format) to base units into underside of countertop at **18 to 24 inches (457 to 610 mm)** o.c. Align adjacent surfaces and, using adhesive in color to match countertop, form seams to comply with

manufacturer's written instructions. Carefully dress joints smooth, remove surface scratches, and clean entire surface.

- C. Fasten countertops by adhering with 100-percent silicone material in dab format (not bead format) to base units into underside of countertop at 18 to 24 inches (457 to 610 mm) o.c. Shim as needed to align subtops in a level plane.
- D. Secure countertops to subtops or wood-web frame with adhesive according to solid surface material manufacturer's written instructions. Align adjacent surfaces and, using adhesive in color to match countertop, form seams to comply with manufacturer's written instructions. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
- E. Bond joints with adhesive and draw tight as countertops are set. Mask areas of countertops adjacent to joints to prevent adhesive smears.
 - 1. Clamp units to temporary bracing, supports, or each other to ensure that countertops are properly aligned and joints are of specified width.
- F. Install backsplashes and end splashes by adhering to wall and countertops with adhesive. Mask areas of countertops and splashes adjacent to joints to prevent adhesive smears.
- G. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts to prevent damage while cutting. Make cutouts to accurately fit items to be installed, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.
- H. Apply sealant to gaps at walls; comply with Section 079200 "Joint Sealants."

END OF SECTION 123661

**SECTION 13 49 00
RADIATION PROTECTION**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Radiation protection with and lead lined products where indicated on drawings.

1.2 RELATED WORK

- A. Section 08 11 13, HOLLOW METAL DOORS AND FRAMES: Steel door frames and Installation of Doors.
- B. Section 08 14 16, WOOD DOORS: Wood Veneer Finish for Doors and Installation of Doors.
- C. Section 08 71 00, DOOR HARDWARE: Hardware and installation for Doors.
- D. Section 09 29 00, GYPSUM BOARD: Joint treatment of Lead-Lined Gypsum Board.

1.3 APPLICABLE PUBLICATIONS

- A. Comply with references to extent specified in this section.
- B. ASTM International (ASTM):
 - A240/A240M-20.....Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
 - C90-16a.....Loadbearing Concrete Masonry Units.
 - C1002-18Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
 - C1396/C1396M-17Gypsum Board.
 - D1187/D1187M-97(2018).....Asphalt-Base Emulsions for Use as Protective Coatings for Metal.
- C. Federal Specifications (Fed. Spec.):
 - QQ-L-201F(2)-65Lead Sheet.
- D. National Council on Radiation Protection & Measurements (NCRP):
 - Report No. 102-89Medical X-Ray, Electron Beam and Gamma-Ray Protection for Energies Up to 50 MeV (Equipment Design, Performance and Use).
 - Report No. 147-04Structural Shielding Design for Medical X-Ray Imaging Facilities.
- E. National Institute of Standards and Technology (NIST):

PS 1-09.....Structural Plywood.

1.4 PREINSTALLATION MEETINGS

- A. Conduct preinstallation meeting minimum 30 days before beginning Work of this section.
 - 1. Required Participants:
 - a. Owner's Representative.
 - b. Architect/Engineer.
 - c. Inspection and Testing Agency.
 - d. Contractor.
 - e. Installer.
 - f. Manufacturer's field representative.
 - g. Other installers responsible for adjacent and intersecting work, including <installer> and <installer>.

1.5 SUBMITTALS

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Submittal Drawings:
 - 1. Show size, configuration, and fabrication and installation details.
 - 2. Show type, location, and thickness of radiation protection.
- C. Manufacturer's Literature and Data:
 - 1. Description of each product.
 - 2. Installation instructions.
 - 3. Warranty.
- D. Samples:
 - 1. Gypsum Lath and Gypsum Wallboard: 300 mm (12 inches) square.
 - 2. Bottom corner section of lead lined door: 300 mm (12 inches) square showing bottom and side edge strips.
- E. Test Reports: Certify each product complies with specifications.
 - 1. Lead control windows.
 - 2. Lead lined wood doors.
 - 3. Hardware.
 - 4. Lead lined door frames.
 - 5. Thresholds.

- F. Qualifications: Substantiate qualifications comply with specifications.
 - 1. Manufacturer with project experience list .
- G. Delegated Design Drawings and Calculations: Signed and sealed by responsible design professional.
- H. Operation and Maintenance Data:
 - 1. Care instructions for each exposed finish product.
 - 2. Start-up, maintenance, troubleshooting, emergency, and shut-down instructions for each operational product.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Regularly manufactures specified products.
 - 2. Manufactured specified products with satisfactory service on five similar installations for minimum five years.
 - a. Project Experience List: Provide contact names and addresses for completed projects.
 - 3. Approval by Contracting Officer is required for product or service of proposed manufacturer and suppliers, and will be based upon submission by Contractor of certification that:
 - 4. Manufacturer regularly and presently manufactures lead radiation shielding as specified as one of its principal products.

1.7 WARRANTY

- A. Manufacturer's Warranty: Warrant lead lined doors against material and manufacturing defects.
 - 1. Defects Include: Warp or twist exceeding 6 mm (1/4 inch) in any face dimension of door (including full diagonal), measured minimum six months after doors have been hung and finished.
 - 2. Warranty Period: Two years.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Lead Sheet: Fed. Spec. QQ-L-201, Grade C, thickness as indicated on drawings.
- B. Lead Lined Gypsum Wallboard:
 - 1. Gypsum Wallboard: ASTM C1396/C1396M, Type X, 16 mm (5/8 inch) thick.
 - 2. Factory bond sheet lead to one side of wallboard.
 - 3. Apply sheet lead in thicknesses shown, unpierced and in one piece.
- C. Stainless Steel: ASTM A240/A240M, Type 304.
- D. Fasteners:

1. Cadmium or chromium plated steel screws for securing lead louvers.
2. Standard Steel Drill Screws: ASTM C1002, with lead washers for application of lead lined sheet materials to metal studs.
3. Nails:
 - a. Use barbed lead head nails for application of lead lined materials to wood furring strips.
 - b. Length: Sufficient to penetrate furring strips minimum 25 mm (1 inch).
 - c. Cast-Lead Head Thickness: Equal protection of penetrated lead shielding.
- E. Lead Discs Thickness: Equal protection of fastener penetrated lead shielding, diameter 25 mm (1 inch) larger than fastener.

2.2 PRODUCTS - GENERAL

- A. Basis of Design:
- B. Radiation Shielding Products: Conform to applicable requirements of NCRP Report No. 147 and NCRP Report No. 102.
- C. General: Provide lead lining for items occurring within partitions matching radiation protection equivalent to adjacent partitions including:
 1. Doors and door frames, and related glazing.
 2. Lead control windows.
- D. Lead Glass: Clear, thickness as required for equivalent lead protection.
- E. Lead Control Windows: Cast lead, rigid, single unit type without joints, with or without voice passage as shown and with lead stop beads and lead glass.
- F. Signs: As scheduled in this section.
 1. Heavy white paper or cardboard.
 2. Height of lettering and number minimum 3 mm (1/8 inch).
 3. Fill in blank spaces on signs with millimeter thickness of lead as installed and total mm thickness of lead equivalent (determined by VA Physicist) and height of radiation protection above finished floor where required.
 4. Provide manufacturer's standard stainless steel frame with clear acrylic plastic cover, 3 mm (1/8 inch) thick over sign, to hold card size 100 mm by 150 mm (4 inches by 6 inches).
- G. Lead Lined Wood Doors:
 1. Refer to Section 08 14 16, WOOD DOORS for quality standards, finishing, installation and related requirements.
 2. Flush veneered construction.

3. Construct doors of two separate solid wood cores with a single sheet of lead lining through center.
 4. Construct doors with filler strips, crossbanding, face veneers and hardwood edge strips, bonded under heavy pressure.
 5. Extend sheet lead lining to door edges.
 6. Fasten wood cores together with countersunk steel bolts through lead with bolt heads and nuts covered with poured lead, or with poured lead dowels.
 7. Locate bolts or dowels 38 mm (1-1/2 inches) from door edges, and maximum 200 mm (8 inches) on center in both directions over door area.
 8. Finish face of dowels and lead covering of bolt heads and nuts flush with wood cores.
 9. Edge Strips:
 - a. Same species of wood as face veneer.
 - b. Minimum 38 mm (1-1/2 inches) at top edge and 63 mm (2-1/2 inches) at bottom edge.
 - c. Glue strips to cores before face veneer is applied.
 - d. Extend vertical edge strips full height of door and bevel 3 mm (1/8 inch) for each 50 mm (2 inches) of door thickness.
 - e. Coat top and bottom edges of doors to receive transparent finish two coats of water resistant sealer before shipment.
 - f. For door to Deep Therapy, provide lead strip on all four edges of door.
 10. Crossbanding of Hardwood:
 - a. 2 mm (0.08 inch) thick minimum with minimum of 1 mm (0.04 inch) thick face veneer, after sanding.
 11. Face Veneers and Finish: Refer to Section 08 14 16, WOOD DOORS.
 12. Secure glass panels with hardwood stops of same species as face veneer. Glue stops to doors on corridor side and fasten with countersunk oval head screws on room side. Finish edge of stop flush with face veneer.
 13. Clearance between Doors and Frames and Floors:
 - a. Jambs and Heads: A maximum 3 mm (1/8 inch) clearance.
 - b. Bottom of door to finish floor: Maximum 19 mm (3/4 inch) clearance.
- H. Hardware:
1. Hardware for doors is specified in Section 08 71 00, DOOR HARDWARE.
 2. Stagger bolts to door pulls on plates which penetrate lead lining relative to opposite plate and recess on side of door opposite pull.

3. Provide lead plugs or discs over recessed nut ends of bolts, unless otherwise shown.
4. Countersink nut ends of bolts for surface applied hinges, door closures and covered with lead lined 1.5 mm (0.06 inch) stainless steel pans.
5. Provide round head screws with dull chromium plated finish to secure stainless steel pans.
6. Provide mortises for flush bolts, floor hinge arms, and top pivots with sheet lead on both sides. Enclose floor boxes of floor hinges with sheet lead at sides and bottom.
7. Recess lock and latch cases at mill and line with lead butted tightly to lead in door.
8. Protection and installation of doors and hardware as specified in Section, 08 11 13, HOLLOW METAL DOORS AND FRAMES, 08 14 16, WOOD DOORS 08 71 00, DOOR HARDWARE .

I. Lead Lining of Frames:

1. Line or cover steel frames, stops for doors, and corner type control windows with sheet lead with sheet lead free of waves, lumps and wrinkles with as few joints as possible.
2. Fabricate joints in sheet lead to obtain radiation protection equivalent to adjacent sheet lead. Finish joints smooth and neat.
3. Structural steel frames and metal door frames for lead lined doors are specified in Section 05 50 00, METAL FABRICATIONS and Section 08 11 13, HOLLOW METAL DOORS AND FRAMES respectively.

2.3 ACCESSORIES

- A. Asphalt Emulsion: ASTM D1187/D1187M.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Examine and verify substrate suitability for product installation.
1. partitions.

3.2 INSTALLATION OF LEAD LINED GYPSUM WALLBOARD PANELS

- A. Apply lead lined gypsum wallboard to metal studs as indicated on drawings.
- B. Predrill or drill pilot holes for nails or screws necessary to prevent deforming fastener and lead shielding and to prevent distorting wallboard.
- C. Apply wallboard vertically with lead linings placed next to supports.
- D. Install sheet lead strips behind joints in same thickness used for wallboard.
1. Lead Strips: 45 mm (1-3/4 inches) wide.
 2. Lead Angles at Corners: 45 mm by 45 mm (1-3/4 by 1-3/4 inch).
 3. Secure the lead strips to supports at outer edges of strips.

E. Wallboard:

1. Fasten to supports using screws and lead washers or discs at maximum 250 mm (10 inches) on centers.
2. Make provisions for connection with lead lined door frames and for cutouts for vision panels.
3. Joint treatment of lead lined gypsum board panels and fastening depressions as specified in Section 09 29 00, GYPSUM BOARD.

3.3 INSTALLATION OF SUPPLEMENTAL LEAD SHIELDING

- A. Line or cover penetrations of wall lead, pipe chases, columns fasteners and other interruptions with sheet lead.
1. Install sheet lead free of waves, lumps and wrinkles and with as few joints as possible.
 2. Joints in sheet lead to provide radiation protection equivalent to adjacent sheet lead.
 3. Finish joints smooth and neat.
- B. Where plaster finish is required over columns or other vertical surfaces covered with sheet lead, drive bolts or other fasteners securing the sheet lead to backing surface half way, and wrap 1.0 mm (0.04 inch) diameter stainless steel tie wire around fasteners.
1. Provide sufficient lengths on both ends of wire ties so nail or screw when fully driven, completes fastening of metal lath.
 2. Locate fasteners maximum 400 mm (16 inches) on center both ways.
 3. Cover heads with lead strips or discs if washers are not used.
- C. Provide lead shielding for spaces around outlet boxes, junction boxes, film illuminators, and pipes, to achieve radiation protection equaling radiation protection specified for adjacent wall surface.

3.4 FIELD QUALITY CONTROL

- A. Field Tests: Contractor to provide field test performed by testing laboratory.
1. Lead radiation shielding will be tested after radiation producing equipment is installed.
 2. Additional testing required due to correction and replacement of defective work will be done at Contractor's expense.

3.5 SIGNAGE SCHEDULE

- A. Install signs on each wall of each room, maximum 300 mm (12 inches) above accessible ceilings, centered along length of each wall.
1. Space signs maximum 6000 mm (20 feet) on center.
 2. Fasten signs with screws at each corner of sign.
- B. X-Ray and Examination Rooms, lettered as follows:

THE PARTITIONS, THE DOORS AND THE SHIELD OF THIS ROOM HAVE
BEEN PROTECTED WITH SHEET LEAD OF _____ mm THICKNESS
PROVIDING A TOTAL LEAD EQUIVALENT PROTECTION OF ____ mm.

C.

--- E N D ---

DIVISION 21 – SPRINKLER SPECIFICATIONS (SP)

- 210500 General Description and Scope - Sprinkler (SP)
 - 1.0 General Description
 - 2.0 Scope

- 210505 General Conditions - Sprinkler System (SP)
 - 1.0 Governing Conditions
 - 2.0 Drawings, Specifications, Bid Documents
 - 3.0 Shop Drawings & Approvals
 - 4.0 Workmanship
 - 5.0 Materials
 - 6.0 Guarantee
 - 7.0 Codes, Permits & Inspections
 - 8.0 Openings, Chase, Cutting & Patching, Clean-Up
 - 9.0 Accessibility
 - 10.0 Supports
 - 11.0 Protection of Apparatus

- 210510 Supplemental General Conditions (SP)
 - 1.0 Contractual Relationship With Owner
 - 2.0 O.S.H.A.
 - 3.0 Other General Conditions
 - 4.0 Fire Stopping
 - 5.0 Equipment Returns
 - 6.0 Coordination of Trades
 - 7.0 Building Services Shutdowns

- 210515 Fire Protection Sprinkler System (SP)
 - 1.0 Related Documents
 - 2.0 Description of Work
 - 3.0 General
 - 4.0 Scope of Work
 - 5.0 Supervision
 - 6.0 Installation
 - 7.0 Laws, Ordinances and Fees
 - 8.0 Location & Measurement
 - 9.0 Design, Material & Installation Criteria
 - 10.0 Piping System
 - 11.0 Joints & Fittings
 - 12.0 Valves
 - 13.0 Specialties
 - 14.0 Cutting, Patching, and Auxiliary Supports and and Bracing
 - 15.0 Pipe Installation
 - 16.0 Flushing & Draining

- 17.0 Hangers & Supports
- 18.0 Test & Inspection
- 19.0 Final Certificate of Approval and Prints
- 20.0 Removal of Debris, Material and Equipment

210500 GENERAL DESCRIPTION & SCOPE - SPRINKLER

- 1.0 General Description and Scope - General Description - These plans and specifications cover furnishing all labor, materials, transportation and equipment to provide complete and operative sprinkler systems for OCCC Newburgh Rad Tech Diagnostic Imaging Expansion Project.

Work to be provided by the sprinkler contractor shall entail the following:

1. Inspection of the job site by said contractor to familiarize himself with the site.
2. Review pipe schedule method for the installation of additional heads.
3. Install new automatic sprinkler piping and heads.
4. All work to be in accordance with New York State Uniform Fire Prevention and Building Code, all applicable NFPA documents including NFPA13 (Standard for the Installation of Sprinkler Systems) and NFPA 101 (Life Safety Code), as well as all applicable local standards and ordinances.

- 2.0 Scope - These plans and specifications include but are not limited to the following:

1. Addition of new sprinkler head to existing system.
2. New sprinkler heads and escutcheon plates to match existing.
3. All required system appurtenances.
4. Meeting all NFPA Codes and local inspection codes.
5. Testing and rendering systems operative.
6. Payment of all fees and charges of Municipal authorities.
7. Cutting and patching required for new work.

210505 GENERAL CONDITIONS – SPRINKLER

- 1.0 Governing Conditions - Governing Conditions of the Sprinkler Contract shall be in accordance with all provisions of the Bid Documents, Contract Documents, Specifications and Supplementary General Conditions, including "Standard General Conditions of the Construction Contract" (NSPE/ACED-56465, latest edition) and/or "General Conditions of the Contract for Construction" (AIA Document A201, latest edition).

Supplementary General Conditions may be provided for all mechanical and electrical work and are contained in the General Construction Documents. This contractor should read and understand these conditions.

This contractor shall familiarize himself with the site and understand all the conditions under which he will be obligated to operate in performing his part of the contract. No allowance will be subsequently made in this connection to this contract or for any errors through omission or negligence on his part.

- 2.0 Drawings, Specifications, Bid Documents - System layout and details shown on drawings - FP series. Scale as noted. Do not scale drawings. Refer to field conditions for actual dimensions and ceiling configurations. Follow drawings as far as practical and supplement by actual field conditions.

All work within this Section shall be subject to all provisions of the bidding documents, contract documents, specifications and all Supplementary General Conditions thereto.

Provide all labor, materials, equipment, apparatus, tools, services, appliances, plant, permanent and temporary facilities required in performing all operations necessary for the complete installation of sprinkler systems as called for within this Section of the specifications and drawings.

Provisions within this Section of the specifications are complementary to all other Sections of the specifications, to the drawings, and to the site and job conditioning.

It is the intention that these specifications, and drawings accompanying same, shall provide for the furnishing and installing of the sprinkler systems complete as specified and shown. Any work shown on the drawings and not particularly described in the specifications or vice versa, or any work changes which may be evidently necessary to complete the installation shall be furnished by this contractor.

- 3.0 Shop Drawings and Approvals - Furnish shop drawings for all major items of equipment. Items requiring shop drawings:

Calculations
Escutcheon Plates
Automatic Sprinkler Heads
Piping

Sprinkler Piping and Head Locations

Submit six copies of shop drawings for approval and cuts of all equipment and appliances prior to start any work. No items of equipment will be permitted on the site until this approval has been given. Contractor shall allow ample time for checking and processing and shall assume responsibility for delays incurred due to rejected items.

- 4.0 Workmanship - Provide neat, mechanical appearance. Provide minor alterations to suit job conditions to accomplish. Special attention shall be given to headroom requirements where ducts and piping are exposed.
- 5.0 Materials - Provide best-accepted industry standard equipment as per manufacturer and catalog numbers shown. Piping materials shall meet ASME test codes. All equipment shall be new and corrosion protected.
- 6.0 Guarantee - Contractor shall guarantee all workmanship, materials and correct operation for a period of one year and shall repair promptly any leaks or breakdowns during that period. Where specific items have greater manufacturer's guarantee period, this guarantee is in addition to manufacturer's liability. Guarantee shall be in writing to the Owner.
- 7.0 Codes, Permits and Inspections - Comply with all building code requirements of New York State Building Code, National Electrical Code, NFPA documents and all applicable Federal, State and Municipal laws, ordinances and regulations. This contractor shall apply for and obtain all required permits and inspections and pay all fees.
- 8.0 Openings, Chases, Cutting and Patching, Cleanup - General Contractor shall provide all openings, chases, and recesses necessary for this work. Sprinkler Contractor shall be responsible for furnishing all necessary information to General Contractor, such as locations and sizes, in ample time prior to installation of his work.

Furnish the GC with sleeves, inserts, etc. ahead of the general construction work so that they may be installed by him. Supervise the placing of these items.

In no case may floors or walls that are waterproofed be cut for admission of any equipment nor any structural member be pierced without written permission of the architect.

All cutting and patching of existing or installed construction shall be by sprinkler contractor.

Sprinkler contractor shall do all cutting and patching of his work which may be required to make various parts come together properly and fit it to receive or be received by work of other contractors as shown or reasonably implied by the contract drawings and specifications for completed work; and, he shall make good after them as the architect may direct.

Any additional costs caused by defective or ill-timed work by the sprinkler contractor shall be borne by him.

Sprinkler contractor shall not endanger any work by cutting, excavating or otherwise altering the

work and shall not cut or alter the work of any other contractor save with written permission of the architect.

Sprinkler contractor shall at all times keep all areas void of packing, rubbish, etc., and shall clean up project as soon as completed.

- 9.0 Accessibility - Sprinkler contractor shall fully inform himself regarding any and all peculiarities and limitations of the space available for the installation of all work and materials furnished and installed under the contract. Due care shall be exercised so that all parts of his work are made quickly and easily accessible. All concealed equipment, valves, controls, etc., provided with access doors of sufficient size and as approved by architect.
- 10.0 Supports - This contractor shall guarantee that the work as installed by him will not result in the transmission of objectionable noise or vibration to any occupied parts of the building; and, he shall take full responsibility for any necessary modifications of his equipment, or of the foundations and supports for the same necessary to secure this result.
- 11.0 Protection of Apparatus - All pipe and duct openings shall be protected by temporary covers to exclude entrance of debris or other foreign matter during construction.

All equipment shall be properly protected from damage during the course of building construction.

210510 SUPPLEMENTAL GENERAL CONDITIONS (SP)

- 1.0 Contractual Relationship with Owner - Upon award of this contract, the contractor shall save harmless the owner and his agents from any or all causes of action arising out of the contractor's negligence.
- 2.0 O.S.H.A. - All work on this project shall be accomplished in accordance with Federal Statutes such as the Occupational Safety and Health Act (1970).
- 3.0 Other General Conditions -

1. Intent - It is the intent of these plans and specifications to provide alterations and/or new construction as indicated on the drawings and in the specifications to provide complete new systems in every respect, capable of operating as designed. It is not intended that every fitting, minor detail or feature be shown on drawings.

The contractor shall be responsible for any detail necessary for completion of these systems in accordance with good practice.

Installation shall be executed so as to contribute to efficiency of operation, minimum maintenance, accessibility and sightliness. The installation shall conform and accommodate itself to the building structure, its equipment and its usage. No piping or equipment shall be installed in such a manner as to interfere with the operation of any doors or windows.

Requirements specified herein shall govern applicable portions of mechanical and electrical sections whether so stated herein or not.

2. Regulations and Certificates - All work shall be done in strict accordance with rules and regulations of local and state authorities having jurisdiction over such work, utility companies operating where apparatus is being installed, National Fire Protection Association, IEEE and insurance companies. Where discrepancies occur between above regulations and these plans and specifications, requirements of the regulations shall take precedence, except that these specifications shall be minimum requirements and that no changes shall be made without approval of the engineer.

Complete approval of all above mentioned authorities shall be secured and their certificates of approval shall be delivered to the owner before final acceptance. Any and all drawings or documents required (in addition to contract drawings) shall be furnished in order to secure above-mentioned approvals.

3. Drawings and Measurements - Contract drawings for mechanical and electrical work are in part diagrammatic, intended to cover the general design and extent of the systems and indicate general arrangement of equipment, ducts, conduits, piping and approximate sizes and locations of equipment and outlets.
Drawings are not intended to be scaled for roughing-in measurements nor to serve as

shop drawings. Where drawings are required for these purposes or have to be made from field measurements, they shall be prepared by the various trades and coordinated by the contractor.

Where job conditions require reasonable changes from indicated locations and arrangements, such changes shall be made without cost to the owner.

Exact locations of all grilles, registers, plumbing fixtures, electrical fixtures, panelboards, etc., shall be governed by plans, elevations and details.

4. Record Drawings - During the course of construction the respective contractor shall keep a careful record (in drawing form) of all deviations from the work as shown on the contract drawings on the installation of pipes, ducts, electric outlets, equipment, invert elevations, etc. These drawings shall be delivered to the engineer before the final certificate of payment is issued.
5. Accessibility - Locate all equipment which must be serviced, operated or maintained, in fully accessible position. Equipment shall include but not be limited to valves, traps, cleanouts, motors, controllers, drain points, etc. Furnish access doors where required. Minor deviations from the drawings may be made to allow for better accessibility, but changes of magnitude or which involve extra cost shall not be made without approval.
6. Access Doors and Panels - Furnish flush type door or panel with metal frame for all dampers, valves, cleanouts or apparatus located in chases, walls or floors. Finish shall be prime coat.
7. Quiet Operation - All equipment shall operate under all conditions of load without any sound or vibration which is objectionable to the opinion of the engineer. In case of moving machinery, sound or vibration noticeable outside of room in which it is installed or annoyingly noticeable inside its own room will be considered objectionable. Sound or vibration conditions considered objectionable by the engineer shall be corrected in approved manner by the contractor at the latter's expense.
8. Covering of Work - No pipe fittings or other work of any kind shall be covered up or hidden from view before it has been examined or approved by the engineer or other authority having jurisdiction. Any unfaithful or imperfect work or material which may be discovered shall be removed and corrected immediately before being condemned, and other work and materials shall be furnished which shall be satisfactory to the engineer.
9. Waterproofing - Where any work pierces waterproofing, the installation shall be as approved by the engineer. Contractor shall furnish all necessary sleeves, caulking and flashing as required to make the openings absolutely watertight.
10. Excavation and Backfill - All excavation and backfill shall be by the contractor who is furnishing and installing the respective equipment. Cleanup, resurface and resod all disturbed areas.

11. Site Conditions - Prior to bid submission, this contractor shall familiarize himself with the site and understand all the conditions under which he will be obligated to operate in performing his part of the contract. No allowance will be subsequently made in this connection to this contract or for any errors through omission or negligence on his part.
- 4.0 Firestopping - All penetrations through fire and smoke rated walls, floors, and ceilings shall be thoroughly sealed with 3M Brand Fire Barrier CP25WB latex based caulk, or approved equal. Install in accordance with manufacturer's instructions.
- 5.0 Equipment Returns - As part of this contract, contractors shall ensure that suppliers of any and all equipment supplied for this project agree to accept the return of any equipment on this project that is in undamaged condition and has not been put into service with a maximum restocking fee of 25%, up until the date of certified substantial completion of the project.
- 6.0 Coordination of Trades - It is understood that coordination between all of the trades on this project is the responsibility of the construction manager (if any), the general contractor (if any) and the trades themselves. This coordination will include meetings and discussions as needed among the parties noted above, and preparation of coordination drawings as needed. The cost of this coordination work shall be included in the contractors' bids. It is not the responsibility of the engineer to perform this coordination. No extra charges will be paid to any contractor that is due to additional work being performed due to lack of coordination between the trades.
- 7.0 Building Services Shutdowns - All building services shutdowns, including electric, gas, water, and telephone utilities, and HVAC, sprinkler, and plumbing systems in existing buildings, for the purpose of performing cutovers and tie-ins of new systems, shall be strictly coordinated with the appropriate utility companies and the building owner. For work in existing buildings, it will be required to perform this work outside of normal building operation hours and the cost for this is to be included in the bids.

210515 FIRE PROTECTION SPRINKLER SYSTEM (SP)

- 1.0 Related Documents - The general provisions of the Contract, including the General and Supplementary Conditions and General Requirements, apply to the work specified in this section.
- 2.0 Description of Work - These specifications cover the furnishing of materials, products, accessories, equipment, tools, services, labor and other items necessary for fabrication and completion of the sprinkler system.

The Contractor shall include in his bid the furnishing of all necessary permits and inspections in connection with his work, and he shall apply for and pay for the cost of these permits and inspections. He shall also furnish all necessary certificates of approval of the sprinkler installation from all authorities having jurisdiction before final payment.

The fire protection system shall be 100% coverage for standard automatic wet type sprinkler system as defined in National Fire Protection Association Document 13, latest edition, as well as various special systems as described on plans.

- 3.0 General - The work of this Section shall be performed in accordance with the General Conditions, the Supplementary General Conditions, the Special Conditions for Mechanical and Electrical Trades, and the other requirements of the Contract Documents.

All materials and equipment used in the installation shall be listed in the latest edition of the "Factory Mutual Approval Guide" and NFPA No. 13.

Where the word "Contractor" occurs in the Specifications or drawings, this shall mean the "Sprinkler Contractor".

Cooperation by this Contractor, with utilities furnishing services, the Owner, and other contractors is mandatory.

Shop drawings and data sheets shall provide all pertinent information for proper evaluation of each item of equipment, and shall include:

1. Principal Dimensions - Including "tie-in" dimensions to building.
2. Sizes and locations of piping and connections.
3. Information for design of supports.
4. Performance data and manufacturer's catalog data on all equipment.
5. Approval stamp of insurance service office of New York State and other authorities having jurisdiction of design and drawings requiring such approval.

Procurement and installation of materials, products and equipment shall be coordinated with the work of other trades and shall be installed so as to be readily accessible for operating, servicing, maintaining and repairing.

Those which are installed in unsuitable locations, shall be removed and relocated as directed by Owner, at Contractor's expense.

Materials, products and equipment and all components thereof, shall be such as appear on Fire Protection Equipment List of Underwriter Laboratories, Inc., and all other bodies having jurisdiction over this work.

Items of any one classification which are used in quantity such as valves, specialties, accessories, etc., shall be products of one manufacturer only.

Entire System - Shall conform to applicable requirements of:

1. Local, state and other codes, laws and regulations.
2. Standards as recommended by National Fire Protection Association.
3. Fire Insurance Underwriters.

- 4.0 Scope of Work - It is the intent and purpose of these Specifications and drawings to include and provide for all materials, appliances and labor to properly complete and leave in perfect working condition the entire system hereinafter specified. Any material, labor or appliance not specifically mentioned in these Specifications or shown on the drawings, but necessary for a complete installation must be furnished by this Contractor. Sprinklers shall be installed throughout every building included in contract. Sprinkler piping shall be run concealed in all finished areas.
- 5.0 Supervision - This contractor shall have a competent foreman in responsible charge of the work, who will be on the site during the erection of the material furnished under these Specifications until same has been put into complete operative condition and accepted by the Owner.
- 6.0 Installation - The work of installation shall be carried out and completed in an expeditious manner and must be executed so as not to interfere with the progress of other trades. The work must advance as quickly as the construction will permit and must not delay the completion of the projects.
- 7.0 Laws, Ordinances and Fees - The work included under this Contract must comply with all Local and State Ordinances and local Fire Department Rules and Regulations and the Standards of the National Fire Protection Association as applicable. This Contractor must have the necessary inspections made by the Authorities having jurisdiction and under their supervision. This Contractor shall pay all fees and obtain all necessary permits, and shall furnish the Owner with all necessary final certificates before final payment on this Contract is made. All testing is to be done in the presence of the owner's agent, engineer and authorities having jurisdiction.

- 8.0 Location and Measurement - The location of piping and appliances are specified and shown on the drawings as accurately as possible, but in all cases they are to be adjusted to the surrounding conditions and the requirements of the National Fire Protection Association and authorities having jurisdiction. Contractor shall prepare shop drawings indicating location and number of Sprinkler heads and clearances for all piping, including all applicable items per NFPA 13.
- 9.0 Design, Material and Installation Criteria - The system design shall be in accordance with sprinkler system drawings made a part of this project. Said drawings show location of sprinkler heads and detail of buildings. This Contractor shall provide "shop drawings" of the entire system in full detail for the Engineer's approval. Said drawings shall provide pipe sizes, hangers, valves, and other equipment with locations and details.
- 10.0 Piping System - All materials as per NFPA 13, FM and authorities having jurisdiction. All sprinkler piping larger than 2" shall be schedule #10 with rolled groove fittings. All piping 2" and smaller shall be schedule #40 with threaded fittings. When screwed joints are used, minimum steel pipe wall thickness shall be .085". Pipe for threading shall be listed and approved per ASTM 135. No slip type fittings shall be permitted. All valves to be flanged, grooved or wafer. Hangers to be adjustable loop type with beam type attachments. All sprinkler escutcheon plates to be of one manufacturer. All sprinklers in areas with finished ceilings to have chrome plated semi-recessed escutcheons.

All materials shall be of type, size and quality as herein shown on the attached drawings.

Fittings shall be screwed black cast iron and shall conform to the requirements set forth in Underwriters Inspected List of Fire Protection Equipment and Materials.

- 11.0 Joints - Steel Pipe and Fittings - Screwed, for black and galvanized.
1. Threads of pipes, fittings and couplings shall conform to applicable requirements of ASA-B2-1.
 2. Length of threading shall produce sufficient number of perfect threads to insure full metal-to-metal contacts when screwed home.
 3. Ends, countersunk, reamed and cleaned of chips and burrs, inside and outside.
 4. Connections, made up full, with not more than one full thread exposed, by such method as will obviate strains or twists in pipes and fitting.
 5. Male threads, smeared with waterproof joint compound, "Teflon" type, or approved equal.
- 12.0 Valves - All valves shall be approved by, and bear identification marks of the Underwriters Laboratories.

Interior valves shall be gate valves of the outside screw and yoke type. Valves for drainage, test connection, etc., shall be as required.

- 13.0 Sprinkler System Specialties - In finished areas with hung ceilings and sheetrock ceilings, the sprinkler heads shall be pendant type with new chrome plated escutcheons.

The Contractor shall provide and install as directed, a standard sprinkler cabinet containing all spare sprinkler heads together with a wrench. Locate as directed by Owner.

- 14.0 Cutting, Patching, and Auxiliary Supports and Bracing - All cutting, patching, auxiliary supports and bracing shall be the responsibility of the sprinkler contractor. All cutting and patching shall be coordinated with and performed in a manner approved by the Architect. No building partitions shall be cut until approval has been given by the Architect.

- 15.0 Pipe Installation - All piping systems shall conform to the requirements of the National Fire Protection Association. Such systems shall be installed without interference with the work of other trades, and in a safe, substantial, rigid, neat and orderly manner.

Piping shall be of full lengths to the greatest extent feasible.

- 16.0 Flushing and Drains - Piping shall be cleaned of dirt, rust, scale, grease and other foreign matter, by flushing with water at required rate as per NFPA-13.

- 17.0 Hangers and Supports - Types and Sizes shall be such as will support piping filled with water, with safety factor of 5 based on tensile strength, without sagging or excessive vibration or movement. They shall be supplied or as made by:

Crane Company, Multi-A-Frame Division, Fee & Mason Mfg. Co., Inc., Ainsworth Mfg. Co., Grinnell Co., Inc., Unistrut Products Co., or approved equal.

Hangers shall be as follows:

1. Types, as approved by Underwriters' Laboratories.
2. Spacings, in conformity with applicable requirements of National Fire Protection Association.
3. Rods, merchant quality, ASTM Design A-107.

Minimum Rod Size	Single Pipe Size
3/8"	3/4 - 4 inch
1/2"	5 - 6 inch

Supports, shall include:

1. Wall brackets
2. Riser stands
3. Pipe stands
4. Pipe saddles
5. Steel angles, channels and other shapes.

Accessories:

1. Insert, one-piece malleable iron or wrought steel, with long radius necks and keyhole slots, for attachment in forms.
2. Expansion shields, self-drilling type with inside threads and expanding plugs as made by Phillips Drill Co., or approved equal.
3. Beam clamps, U-bolts, etc.

Installation:

1. Fastenings shall be to joists, trusses or other structural supports, walls, ceiling, or other piping.
2. Shall not restrict expansion and contraction of piping, or interfere with work of other trades.
3. In a substantial, safe and rigid manner, and so as to avoid undue stresses, vibration or movement.

18.0 Test and Inspection - Tests shall conform to applicable requirements of National Fire Protection Association as follows:

1. After systems are flushed out.
2. In presence of representative of Owner and authorities having jurisdiction.
3. Instruments, specialties, and equipment subject to damage, shall be isolated during tests.
4. Test pressures, valved off, shall not drop appreciably in a 2-hour period.

Sprinkler System shall be tested with water at 200 psi, or 50 psi in excess of maximum static pressure if maximum static pressure is in excess of 150 psi.

19.0 Final Certificate of Approval and Prints - At the completion of sprinkler work, (1) set of corrected prints shall be given to the Owner with the final certificate of tests on all interior systems and stamped approved by the Owner's fire insurance carrier.

20.0 Removal of Debris, Material and Equipment - During operations and at completion of work included in this Section of these specifications, the contractor when directed by the Superintendent representing the Owner, shall promptly remove from the site all debris not resulting from other trades and excess material. All tools, equipment, and shanties whether owned or rented by this Contractor shall be removed immediately after the Superintendent representing the Owner directs such removal.

DIVISION 22 – PLUMBING SPECIFICATIONS (P)

- 220500 General Description and Scope (P)
 - 1.0 General Description
 - 2.0 Scope

- 220505 General Conditions (P)
 - 1.0 Governing Conditions
 - 2.0 Drawings
 - 3.0 Shop Drawings and Approvals
 - 4.0 Workmanship
 - 5.0 Materials
 - 6.0 Guarantee
 - 7.0 Codes, Permits, Inspections
 - 8.0 Tests
 - 9.0 Job Conditions
 - 10.0 Slopes
 - 11.0 Piping
 - 12.0 Painting
 - 13.0 Cleaning Piping
 - 14.0 Access Doors and Panels
 - 15.0 Sleeves and Inserts

- 220510 Supplemental General Conditions (P)
 - 1.0 Contractual Relationship With Owner
 - 2.0 O.S.H.A.
 - 3.0 Other General Conditions
 - 4.0 Firestopping
 - 5.0 Equipment Returns
 - 6.0 Coordination of Trades
 - 7.0 Building Services Shutdowns

- 221116 Water Supply System (P)
 - 1.0 Piping and Supply
 - 2.0 Hangers
 - 3.0 Air Chambers
 - 4.0 Piping Insulation
 - 5.0 Sterilization of Water Piping
 - 6.0 Valves

- 221316 Drainage, Waste and Vent System (P)
 - 1.0 Drainage, Waste and Vent
 - 2.0 Cleanouts

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

224000	Fixtures and Installation - (P)
1.0	Schedule of Equipment Connections
2.0	Schedule of Equipment
3.0	Fixture Installation

220500 GENERAL DESCRIPTION AND SCOPE - PLUMBING

1.0 General Description - These plans and specifications cover furnishing all labor, materials, transportation and equipment to provide a complete and operative plumbing system for OCCC Newburgh Rad Tech Diagnostic Imaging Expansion Project.

2.0 Scope - These plans and specifications include but are not limited to the following:

1. Water supply piping, hot and cold, including piping insulation.
2. Fixtures including supply and drainage fittings.
3. Sanitary Drainage, waste and vent piping.
4. Connection of new to existing systems.
5. Testing and rendering operative of all new systems.
6. Meeting of all codes and ordinances.

220505 GENERAL CONDITIONS - PLUMBING

- 1.0 Governing Conditions - General Conditions of the Plumbing Contract shall be in accordance with:
1. "Standard General Conditions of the Construction Contract per AIA 201" - latest edition.
 2. "Instructions to Bidders - AIA" - latest edition.
 3. Special conditions of the contract as included in general construction documents.

2.0 Drawings - Plumbing installation shown in drawings and on supplementary drawings supplied.

3.0 Shop Drawings and Approvals - Furnish shop drawings for approval, six copies on all major items of equipment. Items requiring shop drawings are:

All equipment show on drawing legend and schedule

The materials, workmanship, design and arrangement of all work installed under the contract shall be subject to the approval of the engineer.

If material or equipment is installed before it is approved, the contractor shall be liable for the removal and replacement at no extra charge to the owner if, in the opinion of the engineer, the material or equipment does not meet the intent of the drawings and specifications.

The words "or approved equal" shall be understood to follow the name of all manufacturers stated herein.

4.0 Workmanship - Provide neat mechanical appearance. Provide minor alterations to accomplish. Conceal all piping in all finished areas.

With submission of bid, the contractor shall give written notice to the engineer of any materials, apparatus, or omissions believed to be in violation of laws, ordinances, rules or regulations of authorities having jurisdiction. In the absence of such written notice, it is mutually agreed that the contractor shall include the cost of providing all systems in accordance with applicable regulations without extra compensation.

5.0 Materials - Provide the best-accepted industry standard equipment and materials. Entire installation shall conform to principles and practices of National Plumbing Code and shall meet New York State Plumbing Code requirements.

Substitutions of equipment or materials other than those indicated on the drawings may be made only upon written approval from the engineer. The contractor shall submit his substitution for approval before releasing order for fabrication and/or shipment. Engineer reserves the right to disapprove such substitutions provided, in his opinion, the item offered is not equal to the item

specified.

Where such approved deviation requires a different quantity and arrangement of ductwork, piping, wiring, conduit and equipment from that specified or indicated on the drawings, subject to approval of the engineer, the contractor shall provide any such ductwork, piping, structural supports, insulation, controllers, motors, starters, electrical wiring and conduit, and any other additional equipment required by the system, at no additional cost to the owner.

- 6.0 Guarantee - Contractor shall guarantee all workmanship, materials and performance for a period of one year from the date of the certificate of completion and acceptance of his work. The contractor shall promptly correct, without cost to the owner, such defects upon notice from the owner to do so.
- 7.0 Codes, Permits, Inspections - Comply with plumbing code requirements of the municipality in which located, NYS Building Code and National Plumbing Code. Materials per code hereinbefore mentioned. Furnish permit and certificate of final inspection from municipality. Contractor shall pay all fees and inspections and same shall be included in the contract amount.
- 8.0 Tests - Labor, material, instruments and power required for testing shall be furnished by this contractor.

Tests shall be performed in the presence and to the satisfaction of the engineer and such other parties as may have legal jurisdiction.

Pressure tests shall be applied to piping only before connection of equipment. In no case shall piping, equipment or accessories be subject to pressure exceeding their rating.

All defective work shall be promptly repaired or replaced and the tests shall be repeated until the particular system and component parts thereof receive the approval of the engineer.

Any damages resulting from tests shall be repaired, and damaged materials replaced, all to the satisfaction of the engineer.

The duration of tests shall be as determined by all authorities having jurisdiction, but in no case less than the time prescribed in the specification.

Equipment and systems which normally operate during certain seasons of the year shall be tested during the appropriate season. Tests shall be performed on individual equipment, system and their controls. Whenever the equipment or system under test is interrelated with and depends upon the operation of other equipment, systems and their controls, for proper operation, functioning and performance, the latter shall be operated simultaneously with the equipment of system tested.

No piping in any location shall be closed up, furred in or covered before testing.

The entire drainage and vent system shall have all openings plugged to permit the entire system to be filled with water to the upper level of the highest vent stack above the roof. When a

portion of the system is being tested, a vertical stack ten feet above the highest horizontal line to be tested may be installed and that portion of the system filled with water. The water shall remain in the system for a four-hour period minimum, without any lowering of the water level at the overflow.

After setting of fixtures and/or equipment, the entire waste and vent system shall be subjected to a smoke test as follows: Fill all trap seals with water. Introduce into the system through a suitable opening, a thick penetrating smoke which is produced in openings above roof, close the vent openings and continue introducing smoke until a pressure of one inch of water has been built up. Maintain pressure for fifteen minutes minimum before starting inspection. Smoke shall not be visible from any joint, fixture connections and/or fixture.

- 9.0 Job Conditions - Contractor shall inform himself of all job conditions, entrance clearances, etc. for his equipment and material. He shall so consider in his estimates. No extras shall be allowed in his failure to do so.
- 10.0 Slopes - All horizontal soil, waste, or storm piping of less than 3 inch diameter shall be run in a uniform grade at not less than 1/4" per foot unless otherwise indicated. All horizontal soil waste, or storm piping 3 inches or larger in diameter shall be run in a uniform ratio at not less than 1/8" per foot. All vent piping shall be so graded as to free itself quickly of any condensation.
- 11.0 Piping - General - Pipe Expansion - All pipe connections shall be installed to allow for freedom of movement of the piping during expansion and contraction without springing. Swing joints, expansion loops and expansion joints with proper anchors and guides shall be provided by the contractor where necessary, and/or when shown on drawings. Anchors and guides shall be subject to approval of the engineer.

Bases and Supports - The contractor shall provide all bases and supports not part of the building structure, of required size, type and strength as approved by the engineer, for all equipment and materials furnished by him.

All equipment, bases and supports shall be adequately anchored to the building structure to prevent shifting of position under operating conditions.

Sleeves, Inserts and Anchor Bolts - The contractor shall provide and will be held responsible for the location of, and maintaining in proper position all sleeves, inserts and anchor bolts required for his work. In the event that failure to do so requires cutting and patching of finished work, it shall be done at the contractor's expense.

Escutcheons - Contractor shall provide escutcheons on pipes wherever they pass through the floors, ceilings, walls or partitions.

Escutcheons for pipes passing through outside walls shall be solid, cast brass, flat type secured to pipe with a setscrew.

Escutcheons for pipes passing through floors shall be split-hinged, case brass type designed to fit pipe on one end and cover sleeve projecting through floor on the other end.

Escutcheons for pipes through interior walls, partitions and ceiling shall be split hinged, cast brass, chromium plated type.

- 12.0 Painting - The contractor shall paint all unpainted, non-insulated, non-galvanized ferrous metal surfaces of pipes, equipment, fixtures, hangers, supports and accessories as follows:
- Exposed - One prime coat of gray lead and oil paint.
 - Concealed - One coat of black asphaltum paint.
 - Underground - Two coats of black asphaltum paint.

Uncoated or otherwise unfinished canvas jackets or insulation shall be painted with one coat of glue sizing as soon as possible after installation.

- 13.0 Cleaning Piping - This contractor shall thoroughly clean all piping, ducts, and equipment of all foreign substances inside and out before being placed in operation.

If any part of the system should be stopped by any foreign matter after being placed in operation, the system shall be disconnected, cleaned and reconnected wherever necessary to locate and remove obstructions. Any work damaged in the course of the removal of obstruction shall be repaired or replaced when the system is reconnected at no additional cost to the owner.

During the course of construction all ducts and pipes shall be capped in an approved manner to insure adequate protection against the entrance of foreign substances.

- 14.0 Access Doors and Panels - Furnish and install flush type access doors or panel with metal frame for all valves or apparatus located in chases, walls or floors. Finish shall be prime coated.
- 15.0 Sleeves and Inserts - This contractor shall be held responsible for the location of and maintaining in proper position, sleeves, inserts and anchor bolts supplied and/or set in place by him. In the event that failure to do so requires cutting and patching of finished work, it shall be done at this contractor's expense by the concrete and/or masonry contractor.

All pipes passing through floors, walls or partitions shall be provided with sleeves having an internal diameter of 1" larger than the outside diameter of the pipe or insulation on covered lines.

Sleeves passing through lightproof or soundproof walls, floors and partitions and through firewalls shall be made tight using approved caulking materials.

Sleeves through floors and all other walls shall be Schedule 40, black steel pipe, set flush with finished wall or ceiling surfaces, but extending ½" above finished floors.

Sleeves through outside walls shall be Schedule 40 black steel pipe with 150 lb. black steel slip-on welding flange welded at the center of the sleeve and shall be painted with one coat of bitmastic paint inside and outside. The space between sleeve and pipe shall be packed with

oakum to within 2" of each face of the wall. The remaining space shall be packed and made water tight with a waterproof compound.

Sleeves through masonry floors or interior masonry walls shall be Schedule 40 black steel pipe, set flush with finished wall or floor surfaces.

Sleeves through interior partitions shall be 22- gauge galvanized sheet steel, set flush with finished surfaces of the partitions.

Inserts shall be individual or strip type of pressed steel construction with accommodation for removable nuts and threaded rods up to 3/4" diameter, permitting lateral adjustment. Individual inserts shall have an opening at the top to allow reinforcing rods up to 1/2" diameter to be passed through the insert body. Strip inserts shall have attached rods with hooked ends to allow fastening to reinforcing rods.

220510 SUPPLEMENTAL GENERAL CONDITIONS (P)

- 1.0 Contractual Relationship with Owner - Upon award of this contract, the contractor shall save harmless the owner and his agents from any or all causes of action arising out of the contractor's negligence.
- 2.0 O.S.H.A. - All work on this project shall be accomplished in accordance with Federal Statutes such as the Occupational Safety and Health Act (1970).

3.0 Other General Conditions -

1. Intent - It is the intent of these plans and specifications to provide alterations and/or new construction as indicated on the drawings and in the specifications to provide complete new systems in every respect, capable of operating as designed. It is not intended that every fitting, minor detail or feature be shown on drawings.

The contractor shall be responsible for any detail necessary for completion of these systems in accordance with good practice.

Installation shall be executed so as to contribute to efficiency of operation, minimum maintenance, accessibility and sightliness. The installation shall conform and accommodate itself to the building structure, its equipment and its usage. No piping or equipment shall be installed in such a manner as to interfere with the operation of any doors or windows.

Requirements specified herein shall govern applicable portions of mechanical and electrical sections whether so stated herein or not.

2. Regulations and Certificates - All work shall be done in strict accordance with rules and regulations of local and state authorities having jurisdiction over such work, utility companies operating where apparatus is being installed, National Fire Protection Association, IEEE and insurance companies. Where discrepancies occur between above regulations and these plans and specifications, requirements of the regulations shall take precedence, except that these specifications shall be minimum requirements and that no changes shall be made without approval of the engineer.

Complete approval of all above mentioned authorities shall be secured and their certificates of approval shall be delivered to the owner before final acceptance. Any and all drawings or documents required (in addition to contract drawings) shall be furnished in order to secure above-mentioned approvals.

3. Drawings and Measurements - Contract drawings for mechanical and electrical work are in part diagrammatic, intended to cover the general design and extent of the systems and indicate general arrangement of equipment, ducts, conduits, piping and approximate sizes and locations of equipment and outlets.
Drawings are not intended to be scaled for roughing-in measurements nor to serve as

shop drawings. Where drawings are required for these purposes or have to be made from field measurements, they shall be prepared by the various trades and coordinated by the contractor.

Where job conditions require reasonable changes from indicated locations and arrangements, such changes shall be made without cost to the owner.

Exact locations of all grilles, registers, plumbing fixtures, electrical fixtures, panelboards, etc., shall be governed by plans, elevations and details.

4. Record Drawings - During the course of construction the respective contractor shall keep a careful record (in drawing form) of all deviations from the work as shown on the contract drawings on the installation of pipes, ducts, electric outlets, equipment, invert elevations, etc. These drawings shall be delivered to the engineer before the final certificate of payment is issued.
5. Accessibility - Locate all equipment which must be serviced, operated or maintained, in fully accessible position. Equipment shall include but not be limited to valves, traps, cleanouts, motors, controllers, drain points, etc. Furnish access doors where required. Minor deviations from the drawings may be made to allow for better accessibility, but changes of magnitude or which involve extra cost shall not be made without approval.
6. Access Doors and Panels - Furnish flush type door or panel with metal frame for all dampers, valves, cleanouts or apparatus located in chases, walls or floors. Finish shall be prime coat.
7. Quiet Operation - All equipment shall operate under all conditions of load without any sound or vibration which is objectionable to the opinion of the engineer. In case of moving machinery, sound or vibration noticeable outside of room in which it is installed or annoyingly noticeable inside its own room will be considered objectionable. Sound or vibration conditions considered objectionable by the engineer shall be corrected in approved manner by the contractor at the latter's expense.
8. Covering of Work - No pipe fittings or other work of any kind shall be covered up or hidden from view before it has been examined or approved by the engineer or other authority having jurisdiction. Any unfaithful or imperfect work or material which may be discovered shall be removed and corrected immediately before being condemned, and other work and materials shall be furnished which shall be satisfactory to the engineer.
9. Waterproofing - Where any work pierces waterproofing, the installation shall be as approved by the engineer. Contractor shall furnish all necessary sleeves, caulking and flashing as required to make the openings absolutely watertight.
10. Site Conditions - Prior to bid submission, this contractor shall familiarize himself with the site and understand all the conditions under which he will be obligated to operate in performing his part of the contract. No allowance will be subsequently made in this connection to this contract or for any errors through omission or negligence on his part.

- 4.0 Firestopping - All penetrations through fire and smoke rated walls, floors, and ceilings shall be thoroughly sealed with 3M Brand Fire Barrier CP25WB latex based caulk, or approved equal. Install in accordance with manufacturer's instructions.
- 5.0 Equipment Returns - As part of this contract, contractors shall ensure that suppliers of any and all equipment supplied for this project agree to accept the return of any equipment on this project that is in undamaged condition and has not been put into service with a maximum restocking fee of 25%, up until the date of certified substantial completion of the project.
- 6.0 Coordination of Trades - It is understood that coordination between all of the trades on this project is the responsibility of the construction manager (if any), the general contractor (if any) and the trades themselves. This coordination will include meetings and discussions as needed among the parties noted above, and preparation of coordination drawings as needed. The cost of this coordination work shall be included in the contractors' bids. It is not the responsibility of the engineer to perform this coordination. No extra charges will be paid to any contractor that is due to additional work being performed due to lack of coordination between the trades.
- 7.0 Building Services Shutdowns - All building services shutdowns, including electric, gas, water, and telephone utilities, and HVAC, sprinkler, and plumbing systems in existing buildings, for the purpose of performing cutovers and tie-ins of new systems, shall be strictly coordinated with the appropriate utility companies and the building owner. For work in existing buildings, it will be required to perform this work outside of normal building operation hours and the cost for this is to be included in the bids.

221116 WATER SUPPLY SYSTEM

- 13.0 Piping and Supply - All piping supply shall be Type "L" copper above grade inside of building. Use Type "K" for all other supply piping. No Type "M" shall be permitted. All fittings shall be wrought copper. Clean all areas to be connected using fine sand cloth. Solder using paste type non-corrosive flux of petrolatum base. Joints shall be soldered within an hour of flux applications. All copper shall be tempered type and shall not be bent. Furnish proper mechanical support before soldering. All solder for Type "L" shall be 95-05 or approved equal. Type "K" underground copper shall be silver soldered.

All fixtures shall be provided with separate valves. Furnish and install at accessible locations at all fixtures.

- 2.0 Hangers - Furnish and install pipe hangers in accordance with the following spacing schedule:

Size Pipe	Ctr to Ctr Spacing
½"	6'
¾" - 1"	8'
1 ¼" - 2"	10'
2 ½" - 5"	12'

- 3.0 Air Chambers - Furnish and install full size air chambers as follows:

Locations	Height
Top of all main risers	2'-0"
Each fixture	1'-0"

The above applies to all hot and cold pipes and fixtures.

- 4.0 Piping Insulation - All domestic cold, hot water supply, and recirculation piping shall be insulated with Certain Teed 500 degree Snap-on Heavy Density Pipe insulation, or approved equal. The insulation shall have an average thermal resistance of at least 4.0 (square foot) (degrees F)/BTUH per inch of thickness on a flat surface at a mean temperature of 75 degrees F.

Application - Insulation shall be applied over clean dry pipe with all joints butted firmly together.

Do not install insulation when air temperature is lower than 35 degrees or higher than 120 degrees. Do not leave adhesive strip exposed to air. Adhere self-sealing lap immediately after removing paper backing.

Fittings and valves shall be insulated and fitted with Manville Zeston PVC pipe fitting covers and Hi-Lo Temp Insulation Inserts, or approved equal. Insulation thickness shall be as per New York State Energy Code.

All piping insulation shall comply with New York State Energy Code Requirements.

INSULATION SCHEDULE (DOMESTIC WATER PIPING 140° AND BELOW)

<u>RUNOUTS</u>	<u>≤1</u>	<u>1 1/4"-4"</u>	<u>5" AND LARGER</u>
Cold Water	1/2"	1/2"	1"
Hot Water	1"	1 1/2"	1 1/2"
Hot Water Recirc	1"	1 1/2"	1 1/2"

All piping shall be marked with pipe identification by Seton, or similar.

- 5.0 Sterilization of Water Piping - Water piping shall be sterilized by introducing into the system a solution of liquid chlorine or sodium chlorine. Chlorine content of solution shall not be less than 50 ppm. Solution shall remain the system not less than eight hours during which time all faucets, valves, etc., shall be opened and closed not less than three times each, at intervals of not less than 30 minutes.

At conclusion of eight-hour period, flush sterilizing solution from system. Reflush, as many as may be required with fresh water until residual chlorine content in any part does not exceed 0.05 ppm.

- 6.0 Valves - The entire plumbing system shall be provided with valves so located that they can be operated, replaced and repaired and afford complete control of the water to each group of fixtures, each riser and wherever else required.

Each fixture shall have supply stops. Exposed supply stops shall be polished chrome finish.

All valves shall be 150 lb. type that can be repacked under pressure when wide open. Where possible one make of valve shall be used throughout (NIBCO, Jenkins, Crane or Walworth).

Provide 125# sweat globe valves for drains and blow-offs.

Valves 3/4" and smaller shall be ball or globe valves, larger size shall be solid wedge type gate valves. Valves two inch and smaller shall be all bronze with screwed or sweat type ends. Valves 2-1/2" and larger shall be iron body bronze-mounted gate valves with screwed or flanged ends.

221316 DRAINAGE, WASTE AND VENT SYSTEM (P)

- 1.0 Drainage, Waste and Vent - All piping above grade shall be Type DWV copper or no-hub cast iron down to 6" above grade. All piping below this point, in slab and below grade shall be service weight cast iron. All copper piping connections shall be soldered using standards hereinbefore described. All cast iron piping shall be no-hub above grade bell and spigot type below grade and shall have neoprene insert joints.

All lines shall be sloped 1/8" per foot minimum. All horizontal changes of direction shall be 1/8 bend (45 degree maximum). Vertical changes shall be "TY".

- 2.0 Cleanouts - All cleanouts shall be closed gas tight by heavy cast bronze screw type plugs with raised hex heads. Plugs shall be full size up to and including 4".

All cleanouts in finished floors shall have a heavy cast bronze plug with straight thread and tapered shroud that seals against caulk lead seat in body, coated cast-iron extension body with cut off serrations and polished brass access cover and frame with integral lugs for adjustment to level of finished floor. (Zurn, Smith, Wade)

Wall cleanouts shall be covered with 6" nickel bronze cover set flush with finished wall and held in place by means of integral anchoring lugs. (Zurn, Smith, Wade)

All cleanouts in finished floors to be covered with linoleum or other applied composition flooring materials shall have recessed inlay type nickel cover.

Soil, waste and storm drains shall be provided with cleanouts at the base of each stack, at every change or direction greater than 45 degrees and at least every 50 feet (maximum) on all horizontal runs.

224000 **FIXTURES AND INSTALLATION**

1.0 Schedules of Equipment Connections - Furnish and install all fixture connections as follows:

	SUPPLIES H C	DRAIN	VENT	TRAP CONNECTION
SINKS	½ ½	2"	1 1/2"	1 1/2"

All supply piping shall be hard drawn type 'L' copper only. All sanitary and vent piping shall be type DWV Copper or service weight, no hub cast-iron above grade and Bell & Spigot service weight cast iron below grade.

2.0 Schedule of Equipment - Shown on drawings.

3.0 Fixture Installation - Fixture trim, faucets, stop valves, escutcheons and waste pipe exposed to view in finished areas shall be brass with polished chromium plating over nickel finish, guaranteed not to strip or peel.

Faucet locations shall be uniform with the cold water faucet on the right side of the fixture and hot water on the left.

This contractor shall be responsible for providing these portions of the fixture trim which are not supplied with the fixture, but are required for the complete installation. All fixtures shall be carefully checked to determine the portion which must be provided to complete the installation.

All fixtures shall be provided with separate stop valves for hot and cold water so that each fixture may be separately controlled without effecting any other fixture.

Provide a capped air chamber 18" long with one size larger than the branch on each hot and cold-water riser to each fixtures.

**DIVISION 23 - HEATING, VENTILATING & AIR CONDITIONING SYSTEMS
SPECIFICATIONS (HVAC)**

- 230500 General Description and Scope - HVAC
 - 1.0 General Description
 - 2.0 Scope

- 230505 General Conditions - HVAC
 - 1.0 Governing Conditions
 - 2.0 Drawings, Specifications, Bid Documents
 - 3.0 Shop Drawings and Approvals.
 - 4.0 Workmanship
 - 5.0 Materials
 - 6.0 Guarantee
 - 7.0 Codes, Permits, Inspections
 - 8.0 Ducts and Hangers
 - 9.0 Insulation
 - 10.0 Openings, Chases, Cutting and Patching, Cleanup
 - 11.0 Accessibility
 - 12.0 Supports
 - 13.0 Protection of Apparatus
 - 14.0 Access Doors & Panels
 - 15.0 Mechanical Identification

- 230510 Supplemental General Conditions (HVAC)
 - 1.0 Contractual Relationship With Owner
 - 2.0 O.S.H.A.
 - 3.0 Other General Conditions
 - 4.0 Firestopping
 - 5.0 Equipment Returns
 - 6.0 Coordination of Trades
 - 7.0 Building Services Shutdowns

- 230593 System Testing, Adjustment and Operation (HVAC, P & SP)
 - 1.0 Testing
 - 2.0 Adjustment and Balancing
 - 3.0 Operating Instructions
 - 4.0 Contract Close Out

237413	Air Handling and Cooling Systems and Equipment- (HVAC)
1.0	Supply and Return Air
2.0	Grilles, Registers, Diffusers
3.0	Insulation
239000	Sequence of Contract Work
1.0	Description
2.0	Contractor Work Phasing

230500 GENERAL DESCRIPTION AND SCOPE - HVAC

- 1.0 General Description - These plans and specifications cover furnishing and installing all equipment, materials, transportation and labor to provide complete and operative heating, ventilating and air-conditioning systems at OCCC Newburgh Rad Tech Diagnostic Imaging Expansion Project.

Included also are specific detailed instructions as may be later issued by the engineer.

- 2.0 Scope - The entire installation shall consist of but not be limited to furnishing and installation of the following:

Modifying existing ductwork based on space reconfigurations.

New dampers, diffusers, and grilles.

Relocation of thermostats and carbon dioxide detectors including extending wiring.

New ductwork connections.

Painting.

Cutting, patching, painting and boxing in of wiring and components.

Testing and rendering operative of all modified systems.

Meeting of all codes and ordinances.

230505 GENERAL CONDITIONS - HVAC

- 1.0 Governing Conditions - Governing Conditions of the Heating, Ventilating and Air-Conditioning Contract shall be in accordance with all provisions of the Bid Documents, Contract Documents, Specifications and Supplementary General Conditions, including "Standard General Conditions of the Construction Contract" (NSPE/ACED-56465, latest edition) and/or "General Conditions of the Contract for Construction" (AIA Document A201, latest edition).

Supplementary General Conditions may be provided for all mechanical work and are contained in the General Construction Documents. This contractor should read and understand these conditions.

- 2.0 Drawings, Specifications, Bid Documents - System layout and details shown on drawings - HVAC series. Scale as noted. Do not scale drawings. Refer to architectural drawings for actual dimensions. Follow drawings as far as practical and supplement by actual field conditions.

All work within this Section shall be subject to all provisions of the bidding documents, contract documents, specifications and all Supplementary General Conditions thereto.

Provide all labor, materials, equipment, apparatus, tools, services, appliances, plant, permanent and temporary facilities required in performing all operations necessary for the complete installation of heating, ventilating and air conditioning facilities as called for within this Section of the specifications and drawings.

Provisions within this Section of the specifications are complementary to all other Sections of the specifications, to the drawings, and to the site and job conditioning.

It is the intention that these specifications, and drawings accompanying same, shall provide for the furnishing and installing of the heating, ventilating and air-conditioning systems complete as specified and shown. Any work shown on the drawings and not particularly described in the specifications or vice versa, or any work changes which may be evidently necessary to complete the installation shall be furnished by this contractor.

- 3.0 Shop Drawings and Approvals - Furnish shop drawings for all major items of equipment. Items requiring shop drawings:

Ductwork - new and alterations to existing
Diffusers and grilles

Submit six copies of shop drawings for approval and cuts of all equipment and appliances prior to start any work. No items of equipment will be permitted on the site until this approval has been given. HVAC contractor shall allow ample time for checking and processing and shall assume responsibility for delays incurred due to rejected items.

- 4.0 Workmanship - Provide neat, mechanical appearance. Provide minor alterations to suit job conditions to accomplish. Special attention shall be given to headroom requirements where ducts and piping are exposed.
- 5.0 Materials - Provide best-accepted industry standard equipment as per manufacturer and catalog numbers shown. Piping materials shall meet ASME test codes. Cooling equipment ratings should be per ARI standards. All equipment shall be new and corrosion protected.
- 6.0 Guarantee - Contractor shall guarantee all workmanship, materials and correct operation for a period of one year and shall repair promptly any leaks or breakdowns during that period. Where specific items have greater manufacturer's guarantee period, this guarantee is in addition to manufacturer's liability. Guarantee shall be in writing to the Owner. All air conditioning compressors shall be guaranteed for five years. The contractor shall promptly correct any defects upon notice from the owner to do so, without cost to the owner.
- 7.0 Codes, Permits and Inspections - Comply with all building code requirements of New York State Building Code, National Electrical Code, NFPA, and all applicable Federal, State and Municipal laws, ordinances and regulations. This contractor shall apply for and obtain all required permits and inspections and pay all fees.
- 8.0 Ducts and Hangers - Provide all duct work for the various heating and ventilating systems complete in every respect and ready to operate.

Material shall be galvanized sheet, ASTM A-653 / A653M. All galvanized steel ducts shall be of gauges shown on drawings and as follows:

<u>Round</u>	<u>Rectangular Greatest Dimension</u>	<u>Gauge</u>
0" - 8	0" - 12"	26
9" - 12"	13" - 30"	24
Over 12"	Over 30"	22

All rectangular ducts shall be crossbroken.

Methods of construction and metal gauges shall be as set forth in SMACNA guide (latest edition). All ducts shall be straight and smooth on the inside and neatly finished joints. Slip joints shall be used in the direction of the airflow.

All duct joints shall be sealed using liquid duct sealant and wrap joints with duct tape.

Ducts shall be securely supported in approved manner, and so constructed and installed as to be free from vibration, "panting" or "oil canning" under all operating conditions, especially on startup and shutting down.

Horizontal ducts shall be suspended by galvanized bond iron hangers on 3" centers from joints, angle irons or floor slabs. Each hanger band shall run completely across bottom of duct and be

supported at each floor level by approved angle iron supports.

Where space permits, duct elbows shall have a centerline radius 1-1/2 times the dimensions of the duct in the plane of the bend. Where space does not permit, the minimum radius of 1.25 may be used without concentric splitters or square elbows with turning vanes similar to Tuttle and Bailey "Ducturns" or approved equal. When concentric splitters are used, the radius of the bends shall be carefully located for low loss elbows.

All branch ducts and outlets not equipped with adjustable louvered registers or volume control devices shall be equipped with volume dampers. (Accessible).

Approved access doors shall be located on ducts and housing for cleaning and maintenance of ducts, dampers, damper operators and equipment not otherwise accessible.

All ducts 36"-45" wide shall be reinforced by 1" x 1" x 1/8" angles on 4'-0" on centers.

Ductwork shall present neat workmanlike appearance, straight and plumb or level as location requires. Set openings symmetrically across walls, located to comply with architectural details.

Provide fire dampers where shown and/or required. Construct in accordance with NBFU Bulletin No. 90 (latest edition).

Provide double thick 14 oz cotton canvas connections wherever ductwork adjoins air-moving equipment. Minimum 4" separation.

The inside of all ductwork where visible through openings shall be painted with two prime coats of flat black paint.

9.0 Insulation -

1. All supply and return air ductwork shall be externally insulated with minimum R-6 (installed value) fiberglass insulation when located inside the building envelope in unconditioned spaces and R-12 (installed value) when located outside the building envelope. Insulation shall have reinforced foil Kraft facing and be adhered to ducts by 4" strips of bonding adhesive on 8" centers. All joints shall butt together and be sealed with 2" flaps. Materials shall be Owens-Corning RFK-75 or approved equal.
2. Acoustic duct liner shall be 1" thick fiberglass board with fire-resistant resin coating. Liner shall be adhered by cementing with mechanical fasteners. Materials shall be Owens-Corning Duct Liner Board or approved equal. Insulation shall be applied where directed and shown on drawings.
3. Vibration Isolation: All motorized equipment shall be insulated with approved vibration eliminator.

- 10.0 Openings, Chases, Cutting and Patching, Cleanup - General Contractor shall provide all openings, chases, and recesses necessary for this work. HVAC Contractor shall be responsible for furnishing all necessary information to General Contractor, such as locations and sizes, in ample time prior to installation of his work.

Furnish the GC with sleeves, inserts, etc. ahead of the general construction work so that they may be installed by him. Supervise the placing of these items.

In no case may floor or walls that are waterproofed be cut for admission of any equipment nor any structural member be pierced without written permission of the (architect, engineer, owner). All cutting and patching of existing or installed construction shall be by HVAC contractor.

HVAC contractor shall do all cutting and patching of his work which may be required to make various parts come together properly and fit it to receive or be received by work of other contractors as shown or reasonably implied by the contract drawings and specifications for completed work; and, he shall make good after them as the architect may direct.

Any additional costs caused by defective or ill-timed work by the HVAC contractor shall be borne by him.

HVAC contractor shall not endanger any work by cutting, excavating or otherwise altering the work and shall not cut or alter the work of any other contractor save with written permission of the architect.

HVAC contractor shall at all times keep all areas void of packing, rubbish, etc., and shall clean up project as soon as completed.

- 11.0 Accessibility - HVAC contractor shall fully inform himself regarding any and all peculiarities and limitations of the space available for the installation of all work and materials furnished and installed under the contract. Due care shall be exercised so that all parts of his work are made quickly and easily accessible. All concealed equipment, valves, controls, etc., provided with access doors of sufficient size and as approved by architect.

- 12.0 Supports - All concrete foundations for heating, ventilating and air conditioning apparatus shall be installed by this contractor. Furnish all necessary templates, anchor bolts, plates, tubes, washers, double nuts, etc., required for setting.

This contractor shall guarantee that the work as installed by him will not result in the transmission of objectionable noise or vibration to any occupied parts of the building; and, he shall take full responsibility for any necessary modifications of his equipment, or of the foundations and supports for the same necessary to secure this result.

- 13.0 Protection of Apparatus - All pipe and duct openings shall be protected by temporary covers to exclude entrance of debris or other foreign matter during construction. All equipment shall be properly protected from damage during the course of building construction.

- 14.0 Access Doors and Panels-Furnish and install flush type access doors or panels with metal frame to permit access to control dampers, valves, devices, fire dampers, etc. Furnish insulated duct access panels for access to devices within ducts.
- 15.0 Mechanical Identification – All piping and equipment shall be labeled with industry standard labels and stamps.

230510 SUPPLEMENTAL GENERAL CONDITIONS (HVAC)

- 1.0 Contractual Relationship with Owner - Upon award of this contract, the contractor shall save harmless the owner and his agents from any or all causes of action arising out of the contractor's negligence.
- 2.0 O.S.H.A. - All work on this project shall be accomplished in accordance with Federal Statutes such as the Occupational Safety and Health Act (1970).

3.0 Other General Conditions -

1. Intent - It is the intent of these plans and specifications to provide alterations and/or new construction as indicated on the drawings and in the specifications to provide complete new systems in every respect, capable of operating as designed. It is not intended that every fitting, minor detail or feature be shown on drawings.

The contractor shall be responsible for any detail necessary for completion of these systems in accordance with good practice.

Installation shall be executed so as to contribute to efficiency of operation, minimum maintenance, accessibility and sightliness. The installation shall conform and accommodate itself to the building structure, its equipment and its usage. No piping or equipment shall be installed in such a manner as to interfere with the operation of any doors or windows.

Requirements specified herein shall govern applicable portions of mechanical and electrical sections whether so stated herein or not.

2. Regulations and Certificates - All work shall be done in strict accordance with rules and regulations of local and state authorities having jurisdiction over such work, utility companies operating where apparatus is being installed, National Fire Protection Association, IEEE and insurance companies. Where discrepancies occur between above regulations and these plans and specifications, requirements of the regulations shall take precedence, except that these specifications shall be minimum requirements and that no changes shall be made without approval of the engineer.

Complete approval of all above mentioned authorities shall be secured and their certificates of approval shall be delivered to the owner before final acceptance. Any and all drawings or documents required (in addition to contract drawings) shall be furnished in order to secure above-mentioned approvals.

3. Drawings and Measurements - Contract drawings for mechanical and electrical work are in part diagrammatic, intended to cover the general design and extent of the systems and indicate general arrangement of equipment, ducts, conduits, piping and approximate sizes and locations of equipment and outlets.

Drawings are not intended to be scaled for roughing-in measurements nor to serve as shop drawings. Where drawings are required for these purposes or have to be made from field measurements, they shall be prepared by the various trades and coordinated by the contractor.

Where job conditions require reasonable changes from indicated locations and arrangements, such changes shall be made without cost to the owner.

Exact locations of all grilles, registers, plumbing fixtures, electrical fixtures, panelboards, etc., shall be governed by plans, elevations and details.

4. Record Drawings - During the course of construction the respective contractor shall keep a careful record (in drawing form) of all deviations from the work as shown on the contract drawings on the installation of pipes, ducts, electric outlets, equipment, invert elevations, etc. These drawings shall be delivered to the engineer before the final certificate of payment is issued.
5. Accessibility - Locate all equipment which must be serviced, operated or maintained, in fully accessible position. Equipment shall include but not be limited to valves, traps, cleanouts, motors, controllers, drain points, etc. Furnish access doors where required. Minor deviations from the drawings may be made to allow for better accessibility, but changes of magnitude or which involve extra cost shall not be made without approval.
6. Access Doors and Panels - Furnish flush type door or panel with metal frame for all dampers, valves, cleanouts or apparatus located in chases, walls or floors. Finish shall be prime coat.
7. Quiet Operation - All equipment shall operate under all conditions of load without any sound or vibration which is objectionable to the opinion of the engineer. In case of moving machinery, sound or vibration noticeable outside of room in which it is installed or annoyingly noticeable inside its own room will be considered objectionable. Sound or vibration conditions considered objectionable by the engineer shall be corrected in approved manner by the contractor at the latter's expense.
8. Covering of Work - No pipe fittings or other work of any kind shall be covered up or hidden from view before it has been examined or approved by the engineer or other authority having jurisdiction. Any unfaithful or imperfect work or material which may be discovered shall be removed and corrected immediately before being condemned, and other work and materials shall be furnished which shall be satisfactory to the engineer.
9. Waterproofing - Where any work pierces waterproofing, the installation shall be as approved by the engineer. Contractor shall furnish all necessary sleeves, caulking and flashing as required to make the openings absolutely watertight.
10. Excavation and Backfill - All excavation and backfill shall be by the contractor who is furnishing and installing the respective equipment. Cleanup, resurface and resod all

disturbed areas.

11. Site Conditions-Prior to bid submission, this contractor shall familiarize himself with the site and understand all the conditions under which he will be obligated to operate in performing his part of the contract. No allowance will be subsequently made in this connection to this contract or for any errors through omission or negligence on his part.
- 4.0 Firestopping-All penetrations through fire and smoke rated walls, floors, and ceilings shall be thoroughly sealed with 3M Brand Fire Barrier CP25WB latex based caulk, or approved equal. Install in accordance with manufacturer's instructions.
- 5.0 Equipment Returns-As part of this contract, contractors shall ensure that suppliers of any and all equipment supplied for this project agree to accept the return of any equipment on this project that is in undamaged condition and has not been put into service with a maximum restocking fee of 25%, up until the date of certified substantial completion of the project.
- 6.0 Coordination of Trades – It is understood that coordination between all of the trades on this project is the responsibility of the construction manager (if any), the general contractor (if any) and the trades themselves. This coordination will include meetings and discussions as needed among the parties noted above, and preparation of coordination drawings as needed. The cost of this coordination work shall be included in the contractors' bids. It is not the responsibility of the engineer to perform this coordination. No extra charges will be paid to any contractor that is due to additional work being performed due to lack of coordination between the trades.
- 7.0 Building Services Shutdowns – All building services shutdowns, including electric, gas, water, and telephone utilities, and HVAC, sprinkler, and plumbing systems in existing buildings, for the purpose of performing cutovers and tie-ins of new systems, shall be strictly coordinated with the appropriate utility companies and the building owner. For work in existing buildings, it will be required to perform this work outside of normal building operation hours and the cost for this is to be included in the bids.

230593 SYSTEM TESTING, ADJUSTMENT AND OPERATION

- 1.0 Testing - Render all equipment operative. Check system for proper operation. Run all equipment long enough to dry out and test all controls for proper operation and operation of all safety controls.
- 2.0 Adjustment and Balancing - Operate all equipment on cooling cycles and balance volume dampers on all ducts and registers to effect comfort and proper cfm. All testing and balancing shall be performed by a Certified HVAC Testing and Balancing Contractor at responsibility of HVAC Contractor.
- 3.0 HVAC Contractor to provide Certified HVAC Test and Balance Report for Engineer's review and approval. HVAC Test and Balance must meet the satisfaction of the Engineer. Approved Test and Balance Report shall be provided to Code Enforcement Agent upon request.
- 4.0 Operating Instructions - Furnish, frame and post all operating instructions for all HVAC/Plumbing equipment on project.
- 5.0 Contract Close Out-
 - a. In the presence of the owner, engineer or architect; demonstrating operation of systems and that all specifications have been met to the satisfaction of all parties.
 - b. Provide required spare parts, devices and appurtenances.
 - c. Provide 2 copies of O & M manuals, shop drawings and catalog cuts, bound in 3 ring binder or similar.
 - d. Demonstrate to building maintenance personnel correct preventive maintenance and scheduled maintenance services.
 - e. Provide warranties to owner, including points of contact for warranty work for system installation and manufacturers equipment installed.

Final payment will not be released until contract closeout is complete.

237413 AIR HANDLING AND COOLING SYSTEMS AND EQUIPMENT

- 1.0 Supply and Return Air - Furnish and install/modify a complete ducted system to required space. Entire duct system shall have net inside dimensions as shown on plans. All ducts shall be externally insulated as shown and described herein.

- 2.0 Grilles, Registers, Diffusers - See drawings for sizes, manufacturer, catalog numbers.

Provide and connect with ductwork in an approved manner all registers and grilles and diffusers shown on drawings. The exact locations of all registers and grilles shall be obtained from the architectural drawings. The right is reserved to vary the location of any register, grille or diffuser to a reasonable extent without extra cost to the owner.

- 3.0 Insulation - This contractor shall provide all insulation for thermal and acoustical purposes on all ducts and equipment as follows or as indicated on drawings. Insulation shall be Knauf, Owens Corning or approved equal. All dimensions are net internal measurements.

All work shall be performed in strict accordance with the best practices of the trade, recommendations of the manufacturer and the intent of this specification. All supplies and return air ducts, including all branches, risers, take offs, etc., insulated with minimum R-6 (installed value) when located inside the building envelope in unconditioned spaces and R-12 (installed value) when located outside the building envelope. Insulation shall be fiberglass with foil kraft facing.

Insulated ductwork as follows-

1. Provide insulation with vapor barrier jackets.
2. Finish with tape and vapor barrier jacket.
3. Continue insulation through walls, sleeves, hangers, and other duct penetrations.
4. Insulate entire system including fittings, joints, flanges, fire dampers, flexible connections, and expansion joints.

External Duct Insulation Application-

1. Secure insulation with vapor barrier with wires and seal jacket joints with vapor barrier adhesive or tape to match jacket.
2. Secure insulation without vapor barrier with staples, tape, or wires.
3. Install without sag on underside of ductwork. Use adhesive or mechanical fasteners where necessary to prevent sagging. Lift ductwork off trapeze hangers and insert spacers.
4. Seal vapor barrier penetrations by mechanical fasteners with vapor barrier adhesive.
5. Stop and point insulation around access doors and damper operators to allow operation without disturbing wrapping.

Duct Line Application (where indicated on drawings)

1. Adhere insulation with adhesive for 100 percent coverage.
2. Secure insulation with mechanical liner fasteners. Refer to SMACNA Standards for spacing.
3. Seal and smooth joints. Seal and cost transverse joints.
4. Seal liner surface penetrations with adhesive.
5. Duct dimensions indicated are net inside dimensions required for airflow. Increase duct size to allow for insulation thickness.

**FELLENZER ENGINEERING, LLP
22 MULBERRY STREET
MIDDLETOWN, NY 10940**

**(CLIENT)
(PROJECT NAME)
(FE PROJECT NO. __-__)**

239000 SEQUENCE OF CONTRACT WORK

- 1.0 Description - This project work shall be subject to strict coordination of all trades to permit completely normal operations of this facility throughout the construction of the renovated areas.
- 2.0 Contractor Work Phasing - This contractor shall phase all work to meet the foregoing conditions of the project work.

DIVISION 260000

ELECTRICAL SPECIFICATIONS

- 260100 Scope and General Description
 - 1.0 General Description
 - 2.0 Scope

- 260500 General Conditions
 - 1.0 Governing Conditions
 - 2.0 Supplementary General Conditions
 - 3.0 Drawings
 - 4.0 Submission of Bid
 - 5.0 Investigation of Conditions
 - 6.0 Contractual Relationship with Owner
 - 7.0 National Electrical Code
 - 8.0 Safety
 - 9.0 Field Measurements
 - 10.0 Excavation and Backfill
 - 11.0 Temporary Power and Lighting Service
 - 12.0 Existing Systems and Equipment
 - 13.0 Tests and Energizing
 - 14.0 Prevailing Wage Rates
 - 15.0 Other General Conditions

- 260800 Codes, Permits and Inspections
 - 1.0 Applicable Codes
 - 2.0 Permits
 - 3.0 Certificate of Inspection
 - 4.0 Electric Utility Company Standards
 - 5.0 Laws, Ordinances and Fees
 - 6.0 O.S.H.A.

- 261000 Materials, Workmanship and Guarantee
 - 1.0 Materials Standards
 - 2.0 Appearance of Work
 - 3.0 Guarantee
 - 4.0 Layout, Cutting and Patching
 - 5.0 Shop Drawings and Samples
 - 6.0 Rigid Steel Conduit and EMT
 - 7.0 Junction and Pull Boxes

- 264200 Panels and Appurtenances
 - 1.0 Description of System

	2.0	Description of Panels
	3.0	Wiring Method
	4.0	Fuses
	5.0	Dry Type Transformers
264400		Individual Equipment Circuits
	1.0	Description and Location
	2.0	Wiring Method
	3.0	X-Ray Equipment
264600		General Purpose Branch Circuits
	1.0	Description
	2.0	Wiring Method
	3.0	Control of Circuits
	4.0	Wiring Devices
	5.0	Connections
	6.0	Plates
265000		Lighting and Equipment
	1.0	Description and Guarantee
	2.0	Lighting Fixture Schedule
	3.0	Installation of Lighting Fixtures
266000		Electrical Connections to HVAC and Plumbing Equipment
	1.0	General
	2.0	Overcurrent Protection and Disconnect Switches
	3.0	Thermal Protection
267200		Fire Alarm System
	1.0	Description of System
	2.0	Wiring
	3.0	Drawings
	4.0	Equipment
	5.0	Mounting, Instructions and Checkout
269000		Cutovers
	1.0	Cutovers
269200		Completion of Work
	1.0	Testing
	2.0	Acceptance
	3.0	Miscellaneous
	4.0	Close Out

SUNY Orange – Newburgh Campus -Kaplan Hall
Rad Tech Diagnostic Imaging Expansion Project
FE Project # 23-197

269400	Sequence of Contract Work
1.0	Description
2.0	Contractor Work Phasing

260100 SCOPE & GENERAL DESCRIPTION

- 1.0 General Description - These specifications cover furnishing all labor and materials to provide a complete and operative electrical system for OCCC Newburgh Rad Tech Diagnostic Imaging Expansion Project..
- 2.0 Scope - The systems described in these plans and specifications include but are not limited to the following:
 - 1. Branch feeder circuits.
 - 2. Branch panels.
 - 3. Lighting fixtures (relocations and new).
 - 4. General purpose receptacles (relocations and new)
 - 5. General purpose circuits (relocations and new).
 - 6. Individual equipment circuits.
 - 7. Cutovers and removals of existing unused systems.

260500 GENERAL CONDITIONS

- 1.0 Governing Conditions - General conditions of the electrical contract shall be in accordance with the "General Conditions of the Contract for the Constructions of Buildings" NSPE/ACEC-CS 156465 (latest edition) with the latest addenda and revisions.
- 2.0 Supplementary General Conditions - Supplementary general conditions may be provided for all mechanical and electrical work and are contained in the General Construction documents. This contractor should read and understand same.
- 3.0 Drawings - Work on this project as described in these specifications is shown on drawings of sheets appropriately titled and plot plan.
- 4.0 Submission of Bid - Contractor shall submit bid as directed to the owner's agent at the time specified. The bid shall contain a statement of the work to be performed and the total construction cost. The contractor shall state that this work is to be performed in accordance with all applicable plans and specifications.
- 5.0 Investigation of Conditions - The electrical contractor shall visit the site of the work and familiarize himself with all available information concerning the nature of local conditions bearing on transportation, handling and storage of materials. The electrical contractor shall make his own estimate of the facilities needed and difficulties attending the execution of the contract, including local conditions, availability of labor, uncertainties of weather, transportation and other conditions bearing on transportation, handling and storage of materials.
- 6.0 Contractual Relationship with Owner - Upon award of this contract, the contractor shall save harmless the owner and his agents from any and all causes of action arising out of this contract.
- 7.0 National Electrical Code - Entire installation shall be made in accordance with the latest edition of National Electrical Code. Contractor shall cooperate with NEC inspector on the installation.
- 8.0 Safety - This electrical contractor shall perform all work in accordance with Rule #23 of the New York State Department of Labor and shall take special precaution during the construction to avoid any exposed live parts. When working on live equipment, the contractor shall give other trades adequate warning and provide adequate protection and warning for others. All open trenches shall be barricaded at all times and safety lighted at night.
- 9.0 Field Measurements - The electrical contractor shall verify in the field, all measurements necessary for his work and shall assume responsibility for their accuracy.
- 10.0 Excavation and Backfill - All excavation and backfill for electrical work shall be performed by this contractor.
- 11.0 Temporary Power and Lighting Service - This contractor shall install, maintain and remove temporary electrical service for lighting and power for construction purposes. If during the

course of this project it is necessary to interrupt electric lighting or power service, this contractor shall provide temporary power and lighting as required and directed. Existing lighting and power may be interrupted only upon written consent of the owner, after 48 hours notice.

- 12.0 Existing Systems and Equipment - Portions of existing services, cables, conduits, panels or equipment may be reused and/or altered. See drawings for details.
- 13.0 Tests and Energizing - After the electrical installation is complete, this contractor shall test all circuits, busses and equipment and verify to ensure that they are free from grounds and short circuits before energizing. All 600-volt cable shall be tested using megohmmeter. Cables of higher voltage rating shall be tested using a D.C. high potential tester. Equipment shall be energized only after said tests have been conducted and test results evaluated.
- 14.0 Prevailing Wage Rates - Provisions of the New York State Labor Law require payment of "Prevailing Wage Rates" in certain public projects. Where applicable, these will be made a part of this contract.
- 15.0 Other General Conditions -
1. Intent - It is the intent of these plans and specifications to provide alterations and/or new construction as indicated on the drawings and in the specifications to provide complete systems in every respect, capable of operating as designed. It is not intended that every fitting, minor detail or feature be shown on drawings. The contractor shall be responsible for any detail necessary for completion of these systems in accordance with good practice. Installation shall be executed so as to contribute to efficiency of operation, minimum maintenance, accessibility and sightliness. The installation shall conform and accommodate itself to the building structure, its equipment and its usage. No piping or equipment shall be installed in such a manner as to interfere with the operation of any doors or windows. Requirements specified herein shall govern applicable portion of mechanical and electrical sections whether so stated herein or not.
 2. Regulations and Certificates - All work shall be done in strict accordance with rules and regulations of local and state authorities having jurisdiction over such work, utility companies operating where apparatus is being installed, National Fire Protection Association, IEEE and insurance companies. Where discrepancies occur between above regulations and these plans and specifications, requirements of the regulations shall take precedence, except that these specifications shall be minimum requirements and that no changes shall be made without approval of the engineer. Complete approval of all above mentioned authorities shall be secured and their certificates of approval shall be delivered to the owner before final acceptance. Any and all drawings or documents required (in addition to contract drawings) shall be furnished in order to secure above-mentioned approvals.
 3. Drawings and Measurements - Contract drawings for mechanical and electrical work are in part diagrammatic, intended to cover the general design and extent of

the systems and indicate general arrangement of equipment, ducts, conduits, piping and approximate sizes and locations of equipment and outlets. Drawings are not intended to be scaled for roughing-in measurements nor to serve as shop drawings. Where drawings are required for these purposes or have to be made from field measurements, they shall be prepared by the various trades and coordinated among the contractors. Where job conditions require reasonable changes from indicated locations and arrangements, such changes shall be made without cost to the owner. Exact locations of all grilles, registers, plumbing fixtures, electrical fixtures, panelboards, etc., shall be governed by plans, elevations and details.

4. Record Drawings - During the course of construction the respective contractor shall keep a careful record (in drawing form) of all deviations from the work as shown on the contract drawings on the installation of pipes, ducts, electric outlets, equipment, invert elevations, etc. These drawings shall be delivered to the engineer before the final certificate of payment is issued.
5. Accessibility - Locate all equipment which must be serviced, operated or maintained, in fully accessible position. Equipment shall include but not be limited to valves, traps, cleanouts, motors, controllers, drain points, etc. Furnish access doors where required. Minor deviations from the drawings may be made to allow for better accessibility, but changes of magnitude or which involve extra cost shall not be made without approval.
6. Access Doors and Panels - Furnish flush type door or panel with metal frame for all junction boxes or apparatus located in chases, walls or floors. Finish shall be prime coat.
7. Quiet Operation - All work shall operate under all conditions of load without any sound or vibration which is objectionable in the opinion of the engineer. In case of moving machinery, sound or vibration noticeable outside of room in which it is installed or annoyingly noticeable inside its own room will be considered objectionable by the engineer and shall be corrected in approved manner by the contractor at the latter's expense.
8. Covering of Work - No pipe fittings or other work of any kind shall be covered up or hidden from view before it has been examined or approved by the engineer or other authority having jurisdiction. Any unfaithful or imperfect work or material which may be discovered shall be removed and corrected immediately before being condemned, and other work and materials shall be furnished which shall be satisfactory to the engineer.
9. Guarantee - The electrical contractor shall guarantee all workmanship, materials, performance for a period of one year from the date of the certificate of completion and acceptance of his work. The contractors shall promptly correct any defects upon notice from the owner to do so, without cost to the owner.

10. Waterproofing - Where any work pierces waterproofing, the installation shall be as approved by the engineer. The electrical contractor shall furnish all necessary sleeves, caulking and flashing as required to make the openings absolutely watertight.
11. Excavation and Backfill - All excavation and backfill shall be by the contractor who is furnishing and installing the respective equipment. Cleanup, resurface and resod all disturbed areas.
12. Fire Stopping - All penetrations through fire and smoke rated walls, floors and ceilings shall be thoroughly sealed with 3M brand Fire Barrier CP25WB latex based caulk, or approved equal. Install in accordance with manufacturer's instructions.
13. Equipment Returns - As part of this contract, contractors shall ensure that suppliers of any and all equipment supplied for this project agree to accept the return of any equipment on this project that is in undamaged condition and has not been put into service with a maximum restocking fee of 25%, up until the date of certified substantial completion of the project.
14. Coordination of Trades - It is understood that coordination between all of the trades on this project is the responsibility of the construction manager (if any), the general contractor (if any) and the trades themselves. This coordination will include meetings and discussions as needed among the parties noted above, and preparation of coordination drawings as needed. The cost of this coordination work shall be included in the contractors' bids. It is not the responsibility of the engineer to perform this coordination. No extra charges will be paid to any contractor that is due to additional work being performed due to lack of coordination between the trades.
15. Building Services Shutdowns - All building services shutdowns, including electric, gas, water, and telecommunications utilities, and HVAC, sprinkler, and plumbing systems in existing buildings, for the purpose of performing cutovers and tie-ins of new systems, shall be strictly coordinated with the appropriate utility companies and the building owner. For work in existing buildings, it will be required to perform this work outside of normal building operation hours and the cost for this is to be included in the bids.

260800 CODES, PERMITS AND INSPECTIONS

- 1.0 Applicable Codes - The entire installation shall conform to the rules and regulations of the following parties having jurisdiction:
 1. National Electrical Code of the National Fire Protection Association, latest edition.
 2. State Codes, Local Electrical Codes and other regulations of municipality.
 3. "Specifications for Electrical Installations" issued by supplying electric utility company.
 4. Internet service provider standards.
- 2.0 Permits - Contractor shall obtain all permits required by local utility company ordinances. Contractor shall cooperate with utility companies on electric and telephone installations. Contractor shall obtain approval of all utilities on service entrances.
- 3.0 Certificate of Inspection - Upon completion, the electrical contractor shall furnish a certificate of final inspection to the owner from the New York Board of Fire Underwriters covering all electrical installations in these plans and specifications in his contract. The cost of said inspection shall be borne by the contractor and shall be included in the contract amount.
- 4.0 Electric Utility Company Standards - Entire installation shall conform to all rules and regulations for service as issued by the utility company.
- 5.0 Laws, Ordinances and Fees - This contractor shall give all necessary notices, obtain all permits, and pay all taxes, fees and other documents and obtain all necessary approvals of all local, County, New York and/or State of New York Departments, having jurisdiction; obtain all required Certificates of Inspection for his work and deliver same to the engineer before request for acceptance and final payment for the work. This contractor shall include in the work, without extra cost to the owner, any labor, materials, services, apparatus, drawings (in addition to contract drawings and documents) which are necessary in order to comply with all applicable laws, ordinances, rules and regulations whether or not shown on drawings and/or specified. With submission of bid, the electrical contractors shall give written notice to the engineer of any materials or equipment believed inadequate or unsuitable in violation of laws, ordinances, rules or regulations of authorities having jurisdiction and any necessary items of work omitted. In the absence of such written notice, it is mutually agreed that this contractor has included the cost of all required items in his proposal, and that he will be responsible for the approved satisfactory functioning of the entire system without extra compensation.
- 6.0 O.S.H.A. - All work on this project shall be accomplished in accordance with Federal statutes such as the Occupational Safety and Health Act (1970).

261000 MATERIALS, WORKMANSHIP AND GUARANTEE

- 1.0 Materials Standards - All materials shall be new and comply with the best accepted industry standards and shall bear the Underwriters' Laboratories (UL) seal of approval. All material shall be of such quality and dimensions specified and shall be manufactured in accordance with American Standards Association, National Electrical Manufacturers Association, I.E.E.E., and Underwriter's Laboratories. In any conflict, the engineer shall be sole judge of whether or not these conditions are met or whether the "or equal" clause is met. All conductors on entire project shall be copper. Abbreviations in the plans and specifications may be used as follows:

EMT - "Electro Metallic Tubing" - Thin wall conduit.

RGS - "Rigid Galvanized Steel" - Heavy wall conduit.

PVC - "Polyvinyl Chloride" - Schedule 40 or 80 conduit as specified.

Samples - Contractor may be required to submit sample of all materials used to the engineer. Materials may be rejected any time during project if installed without presenting samples, if found to be not equal to the quality specified in its category. The engineer shall be the sole judge of this matter.

- 2.0 Appearance of Work - All work shall be executed to present a neat mechanical appearance and leave the installation in proper operating order.
- 3.0 Guarantee - The contractor shall replace any work or material which develops defects from ordinary wear and tear within one year of the date of the final certificate of approval. Replacement shall be made without cost to the owner.
- 4.0 Layout, Cutting and Patching - The electrical contractor shall layout all conduits, box locations, etc., in advance of pouring concrete or installation of walls. Any cutting or patching required because of the contractor's neglect to properly lay out the work shall be performed at the expense of the contractor and shall be approved by the engineer to assure a workmanlike job. Contractor shall verify all dimensions shown on plans and shall be responsible for dimensions and conduit sizes to assure adequate sizing where larger conduits are installed to provide for more than one circuit per conduit. Contractor shall cooperate with other contractors on locations of facilities where conflicts of location arise.
- 5.0 Shop Drawings and Samples - Before ordering material shipped to the job, submit to engineer six copies of shop drawings for review giving all details, dimensions, etc., of the following equipment:
- Light fixtures
 - Lighting controls
 - Electrical panels
 - Dry-type transformers
 - Overcurrent protection devices and disconnects
 - Fire alarm system material and diagrams

- Wire and conduit

Electrical contractor shall also furnish samples of wire, cable, plug receptacles, light switches, disconnect switches and other small parts as requested by the engineer.

- 6.0 RGS and EMT - All rigid steel conduit shall be full weight standard i.p.s. galvanized or Sheradized threaded conduit equal to National Electric Products Company "Sheraduct" or approved equal, and no conduit smaller than 3/4" in size shall be used on any part of the installation. Rigid steel conduit shall be used in floor slab and on all main feeders to light panels, power panels, etc. All conduits, where located in outside walls, underground or underfloors, shall have joints redlead. Conduits buried underground, chased in roof planking or in slab on grade shall be painted with two coats of asphaltum paint. Conduits shall be continuous from outlet to outlet, and from outlets to cabinets, junction or pull boxes and shall enter and be secured to all boxes in such a manner that each system shall be electrically continuous from service to all outlets. Terminals of all conduits shall be furnished with double locknuts and bushings. Changes in direction of conduit where concealed shall be made by means of standard radius bend, and where exposed by means of Crouse-Hinds or equal galvanized or sheradized threaded conduit bodies. Armored cable shall be used only for short connections to fractional horsepower utility motors. Electrical metallic tubing may be permitted on exposed ceiling work and for concealed branch circuit wiring where not installed in slab construction.
- 7.0 Junction and Pull Boxes - Junction or pull boxes shall be furnished and installed under this section of the specifications where indicated on the drawings, wherever else such a box may be deemed necessary to facilitate the pulling or splicing of wires or cables. All such boxes must be accessible and shall be built only from approved detail working drawings. Conduits shall enter these boxes through tight fitting clearance holes. Covers for the boxes shall be designed for quick removal. Where junction boxes are required for splicing box for special recessed fixtures, consult the engineer before installing and determine exact location of each box. Each feeder passing through a pull box shall be tagged with tag of fireproof material, or designated in another approved manner. Generally, junction boxes and pull box shall not be exposed in finished spaces. Where necessary, reroute conduits or make other arrangements to meet approval of engineer.

264200 PANELS AND APPURTENANCES

- 1.0 Description of System - System shall consist of single phase, three wire and three phase, four wire circuit breaker panels located as shown.
- 2.0 Description of Panels - Panels are described on drawings. Number of spare breakers and space allowed for future expansion is shown on one-line drawings and panel schedules. Contractor may substitute equal equipment to that specified provided breakers have equal interrupting rating, NEMA class rating and approval is given by the engineer. All panels shall be furnished for the voltage, capacity and interrupting rating required. Branch panels installed shall be Square 'D' or approved equal and shall be properly braced to withstand short circuits equal to the circuit breaker interrupting rating. All panelboards shall be dead front safety type equipped with thermal magnetic molded case circuit breakers of frame and trip ratings as shown on schedule. Bussing Assembly and Temperature Rise Panelboard bus structure and main lugs or main breaker shall have current ratings as shown on the panelboard schedule. Such rating shall be established by heat rise tests with maximum hot spot temperature on any connector or bus bar not to exceed 50 degrees C rise above ambient. Heat rise test shall be conducted in accordance with Underwriters' Laboratories Standard UL 67. The use of conductor dimensions will not be accepted in lieu of actual heat tests. All bus bars shall be copper.

Circuit Breakers - Circuit breakers shall be equipped with individually insulated, raced and protected connectors. The front face of all circuit breakers shall be flush with each other. Large permanent individual circuit numbers shall be affirmed to each breaker in a uniform position (or equip each breaker with a circuit card holder and neatly printed card identifying the circuit). Tripped indication shall be clearly shown by the breaker handle taking a position between "ON" and "OFF".

Integrated Equipment Rating - Each panelboard, as a complete unit, shall have a rating equal to or greater than the integrated equipment rating shown on the panelboard schedule on the plans. Such rating shall be established by test with the circuit breaker mounted on the panelboard. The short circuit tests on the circuit breaker and on the panelboard structure shall be made simultaneously connected to its rated voltage source. Method of testing shall be per pro-ratings. The source shall be capable of supplying the specified panelboard short circuit current or greater. Test data showing the completion of such tests upon the entire range of distribution and power panelboard to be furnished shall be submitted to the engineer, if requested by him, with or before the submittal or approval drawings. Testing of panelboard circuit breakers for short circuit rating only with the breaker individually mounted is not acceptable. Also, testing of the bus structure by applying a fixed fault to the bus structure alone is not acceptable. Cabinet Panelboards shall be listed by Underwriters' Laboratories and shall bear UL label.

- 3.0 Wiring Method - All panel feeders shall be copper THWN or THHN insulated in galvanized conduit as shown on one line drawing from main service to all panels. Install conductors in said conduit as shown. Conduit type shall be as designated on one line diagram.

- 4.0 Fuses - All fuses shall be of the same manufacturer. Fuses shall not be installed until equipment is to be energized. All fuses shall be a 200,000-ampere RMS Symmetrical interrupting rating unless specified otherwise. Upon completion of the project, a complete set of spare fuses shall be furnished. Spare fuses shall consist of a standard carton, 10 percent of each type and rating or a set of 3, whichever is greater. Spare fuses shall be placed in one or more spare fuse cabinets provided by this contractor as directed. The spare fuse cabinet shall be 30" H x 12" D with key lock door, center shelf and fuse index holder. Bussman Spare Fuse Cabinet Cat # SFC shall be provided.

Fuses, 0 to 600 ampere-shall be UL Class RII, dual element with pure silver short-circuit links on ratings above 60 amperes. Fuses shall be Bussman Low Peak Dual-Element Fuse, LPN-RK (250 volt) or LPS-RK (600 volt).

- 5.0 Dry Type Transformers - Furnish and install where shown on plans dry type transformers for various transformations from the 480V/1P- system to 208V/1P- systems. Dry type transformers shall have self-cooled KVA ratings as indicated on plans. Manufacturer shall be Square 'D' or approved equal. Transformers thru 15 KVA inclusive shall be supplied with primary taps (2 - 5% above and below normal) rated primary voltage. Transformers 25 KVA and larger are to be supplied with 2 - 2 1/2% full capacity taps above and 4 - 2 1/2% full capacity taps below primary voltage. Exceptions to the above will be shown on the electrical plans. Transformers rated .050 thru 2 KVA shall have insulating material 0 rated Class B by NEMA and be designed not to exceed an 80°C rise above 40°C ambient with a 100% continuous load applied to the secondary. Transformers rated 3 KVA thru 15 KVA shall have Class H insulation and be designed not to exceed 115°C rise above 40°C ambient under the above full load conditions. Transformers 30 KVA and above shall be Class H, 115°C transformers and shall have the ability to carry a continuous 15% overload without exceeding a 115°C rise above 40°C ambient. Transformer coils must be vacuum impregnated with non-hygroscopic, thermosetting varnish. Each layer shall be end filters or tie downs to provide maximum mechanical strength. No splicing acceptable. Materials incorporated must have at least a minimum of one year of proven field usage, accelerated laboratory tests not acceptable in lieu of this field usage. Insulation systems shall be listed by Underwriters' Laboratories. Transformer coils shall have a final wrap of electrical insulating material designed to prevent injury to the magnet wire. Transformers having coils with magnet wire visible will not be acceptable. All core to be manufactured from a high grade, non-aging, silicon steel with high magnetic permeabilities, low hysteresis and eddy current losses. Magnetic flux densities are to be kept well below saturation to allow for a minimum of 10% over voltage excitation. The cores shall be clamped with structural angles (formed angles not acceptable) and bolted to the enclosure to prevent damage during shipment or rough handling. The core and coil unit shall be completely isolated from the enclosure by means of vibration absorbing mounts. There shall be no metal-to-metal contact between the core and coil and the enclosure. On units 500 KVA and smaller the vibration isolating system shall be so designed as to provide for continual securement of the core and coil unit to the enclosure. Sound isolating systems requiring the removal of all tie down facilities will not be acceptable. Transformers 10 KVA and smaller shall be provided in a non-ventilated enclosure. Transformers 30 KVA and larger shall be in a ventilated enclosure, the ventilated openings must be designed in a manner as to prevent accidental access to the electrically live parts. Transformers 10 KVA and below shall be suitable for wall mounting, and transformers 15 KVA thru 75 KVA shall be provided with interchangeable mounting for floor or wall as indicated on drawings. The

maximum top of case temperature shall not exceed 350 Centigrade above ambient. The entire transformer enclosure shall be degreased, cleaned, phosphatized, primed and finished with baked enamel. Air dry finished will not be accepted as being equal. The core and coils shall be visibly grounded to the frame of the transformer cubicle by means of a flexible grounding strap of adequate size. Sound levels shall be guaranteed by the manufacturer and substantiated by certified tests on each unit furnished. The sound levels are not to exceed the following value: 0 to 9 KVA, 40 D.B., 10 to 45 KVA, 42 D.B., 50 to 150 KVA, 45 D.B., 225 to 300 KVA, 50 D./B., and 500 KVA, 54 D.B.

Suppliers asking consideration as an approved equal shall submit full guaranteed performance data on similar units in service for one or more years. Standards - All transformers must be constructed and rated in accordance with all applicable ANSI, NEMA, IEEE and UL standards and must meet National Electrical Code requirements. Transformers furnished shall be Square "D" or approved equal.

264400 INDIVIDUAL EQUIPMENT CIRCUITS

- 1.0 Description and Location - Install all individual equipment circuits as shown on drawings.
- 2.0 Wiring Method - Install all individual equipment circuits with Type THHN copper conductors in conduit. Type MC (BX) insulated copper conductors may be utilized for drop whips from junction box to device, unless otherwise noted. Connect and test. Furnish and install all wiring and furnish and install disconnect switches on equipment furnished and installed by others.
- 3.0 X-Ray Equipment - Electrical contractor shall furnish and install all power wiring, disconnect switches and connections as required to all X-Ray equipment as shown on drawings. Coordinate with equipment provider. All electrical connections shall be per manufacturer's requirements.

264600 GENERAL PURPOSE BRANCH CIRCUITS

- 1.0 Description - Install general-purpose branch circuits as shown on one-line diagrams on plan.
- 2.0 Wiring Method - All general purpose branch circuits shall be installed as shown on drawings. Conductor and conduit sizes are shown on drawings. No wire size smaller than #12 AWG copper shall be used. No conduit smaller than 3/4" shall be used. All boxes shall be 4" square or larger and minimum depth of 1-1/2". All conduits and boxes shall be concealed in all areas except mechanical rooms, pipe tunnel and storage areas. Metallic armored cable may be used at locations shown on drawings and for whips to branch devices. All circuits installed in floor slab or in contact with earth shall be rigid galvanized steel conduit. All junction boxes shall be sized as shown on drawings or as per N.E.C. requirements. Provide swing cover or screw as shown or dictated by usage. All junction boxes shall be code grade steel galvanized. All junction boxes shall be accessible. Electrical contractor is required to provide and install access doors or panels for same unless otherwise noted. It is noted that the hereinbefore-described wiring method is applicable to various other signal systems as well as general purpose circuits as herein described.

Location of Outlets - Locate outlets as shown on drawing. Contractor shall cooperate with other trades in conflict of locations. Except as otherwise specified on drawings, centerline height of outlets above floorline shall be as follows:

Bracket Outlets	6'-6"
Wall Switches	4'-0"
Convenience Outlets (Counters)	3'-8"
Convenience Outlets	1'-6"

See plans for locations of other lighting and power outlets.

- 3.0 Control of Circuits - Circuit control shall be provided as shown on drawings. Where no switches are shown on the drawings, the breaker switch in panel shall be used as the switching means, and shall be of the switching duty type.
- 4.0 Wiring Devices - Shall be as listed in legend and schedule described on drawings.
- 5.0 Connections - All connections shall be made using Buchanan Compression Type connectors or equal, using nylon or P.V.C. insulators.
- 6.0 Plates - All switches, receptacles and wiring device plates shall be chrome/brushed stainless steel as desired by Owner. Furnish and install same as directed. Chrome in baths and toilets, stainless steel in all other areas. All plates shall be 0.40" thick.

265000 LIGHTING AND EQUIPMENT

- 1.0 Description and Guarantee - Contractor shall furnish and install all lighting equipment as shown on the drawings and as contained in these specifications. All material shall be NEMA standard manufactured and shall be Underwriters Laboratories approved and shall bear that seal of approval. Contractor shall furnish and install all lamps of types and sizes as described on plans in the schedule of electrical equipment to the maximum size permitted by the fixture design. Equipment shall be tested and rendered operative by the contractor.
- 2.0 Lighting Fixture Schedule - The contractor shall furnish and install the lighting fixtures complete for each and every light outlet in the type, quality and size of fixture indicated on plans and as described in the schedule. It shall be the responsibility of the contractor to check the plans with the schedule for completeness, as this schedule is made up for the purpose of indicating the general type, quality and size of fixtures that will be required. The use of catalog numbers describing a fixture does not necessarily include all the required accessories that may be required for a complete installation. The use of a vendor's name and catalog is for convenience in specifying the quality, style, size, finish and general type of fixture required and does not intentionally exclude similar equipment available from other manufacturers. This contractor shall include all fixtures, wiring, hanging, uncrating, connecting up, and making ready to operate. All fixture wire for fixtures shall be not less than #12 gauge, but larger if capacity of fixture requires it. All splices shall be pressure type connectors as hereinbefore described. Contractor shall include the cost of furnishing and installing all lamps for all fixtures under this contract throughout. All lamps for all fixtures shall be furnished in type specified. Lamps shall be of lumen output, color rendering index (CRI), correlated color temperature (CCT), and other qualities as specified for each fixture type. The engineer reserves the privilege of having samples of specified lighting fixtures mounted in place in operating condition for evaluation prior to final approval. In the event any fixture type is rejected for aesthetic or other reasons, the contractor shall procure and install other suitable fixtures as directed until a satisfactory approval is granted. Any difference in cost of fixtures thus approved shall be mutually agreed upon before installation, but all work involved in sample installations and final approval by the engineer shall be at no additional expense to the owner.
- 3.0 Installation of Lighting Fixtures - Fixtures shall be completely wired in accordance with the latest requirements of the National Electrical Code. All pendant type fixtures in the same room shall be installed at a uniform height from the floor and hang plumb. Fixtures shall be rigidly mounted in fixture stud in outlet box. Malleable iron hickies or extension pieces shall be provided where required. Each lighting fixture unit shall be installed in a manner approved by the manufacturer using a fastening method approved to sustain three times the weight of each unit. Use only stems, fittings and appurtenances provided by same fixture manufacturer. All suspended units where used with suspended ceiling shall be suspended from a structural portion of building and shall not be dependent upon ceiling for support. Contractor shall furnish and install all miscellaneous materials required to install lighting fixtures. Provide and install suitable cover plates or canopy for fixture outlet box where the fixture does not provide a suitable cover.
Electrical contractor shall confer with the general contractor to locate and install pendant-ceiling fixtures and install supports for any ceiling fixtures which require special provision for their support. Installation of all lighting fixtures shall be done by experienced mechanics.

Lighting fixtures shall not be installed until finished coat of paint has been applied to ceilings and walls and allowed to dry thoroughly. Lighting fixtures in the equipment rooms shall not be installed until all piping and ductwork is in place. Lighting fixtures layout shown on plans is typical layout for bid purposes but must be modified by the contractor to provide adequate lighting of the equipment space according to final construction conditions. Any relocation of fixtures due to duct or piping interference shall be as directed by Architect, at the expense of the contractor and not billed to the owner.

266000 ELECTRICAL CONNECTIONS TO HVAC AND PLUMBING EQUIPMENT

- 1.0 General - This contractor shall do all power wiring required for plumbing, ventilating, heating, and special purpose motors and pumps including mounting of switches and starters, as well as wiring of same. Electrical contractor shall furnish one manual thermal starter with all motors less than ½ HP; magnetic across-the-line starters will be furnished by respective contractors on unitary equipment.

Respective contractors refers to the contractor providing the equipment which requires control and power connections.

- 2.0 Overcurrent Protection and Disconnect Switches - The contractor shall furnish and install overcurrent protection and disconnecting means as required by NEC for all motors and equipment. This contractor shall connect, ready for operation, equipment and control apparatus specified under other sections unless specifically mentioned as being connected under such section. Each equipment shall be provided with an enclosed safety switch having quick-make and quick-break contacts. The disconnecting switch shall open all ungrounded conductors simultaneously and shall have a rating equal to, or in excess of the motor control.
- 3.0 Thermal Protection - Starters with thermal protection for motors will in general be furnished under the other sections of the specifications. Thermal elements are specified in these sections to protect all motors at 100% of the nameplate readings. Where the protection does not comply with the specifications the equipment supplier will be notified to have the thermal elements changed.

267200 FIRE ALARM SYSTEM

- 1.0 Description of System - Furnish and install additional smoke detectors and horn/strobes to the existing completely supervised detection and fire alarm system. All material and installation shall conform to the following National Fire Protection Association Bulletins:
 1. NFPA-70 National Electrical Code, latest edition.
 2. NFPA-101 Life Safety Code.
 3. NFPA-72 latest edition.
 4. All work to be performed by qualified personnel of the contractor experienced in such work.
- 2.0 Wiring - Minimum wire size shall be as recommended by equipment manufacturer. (No wire smaller than 18-gauge will be approved). Use UL listed wire only. All wiring shall be concealed in walls or in conduit where exposed at the ceiling.
- 3.0 Drawings - See drawings for equipment location. Drawings are schematic. Exact locations to be approved by architect in field before installation.
- 4.0 Equipment - The system components shall be as indicated on plans.
 1. Strobes and horn strobes shall be ADA compliant and shall be installed to comply with same.
 2. Pull stations shall be dual action type.
 3. Smoke detectors shall be photoelectric.
 4. Duct smoke detectors shall be ionization type with full-length sampling tube.
 5. Fan shutdown shall be provided on all air handling systems greater than 2000 cfm.
 6. Reprogram the fire alarm system for additional device and test and certify proper operation.
- 5.0 Mounting, Instructions and Checkout -
 1. Securely mount all devices.
 2. Provide instructions and maintenance manual for entire system.
 3. Complete systems shall be tested and operation shall be demonstrated before final acceptance.

Entire system shall be installed with separate wiring from other system of the building.

269000 CUTOVERS

- 1.0 Cutover - Contractor shall arrange to cutover from existing to new equipment to minimize outage to equipment in service. Contractor shall advise the owner as to proposed time of cutover.

269200 COMPLETION OF WORK

- 1.0 Testing - Completed installation shall be tested.
- 2.0 Acceptance - In the presence of engineer and owner, demonstrate operation of systems and that all specifications have been met to the satisfaction of the owner.
- 3.0 Miscellaneous - Provide all miscellaneous spare parts, devices and appurtenances as required. Install and test.
- 4.0 Close Out -
 - 1. Contractor shall provide 2 copies of all O&M manuals, warranty and catalog cut data in a 3 ring binder, neatly arranged, to the owner prior to application of final payment. Binder shall be acceptable to owner and engineer prior to approval of final payment.
 - 2. Demonstrate to building maintenance personnel correct preventive and schedule maintenance services.
 - 3. Provide warranty to owner, including points of contact for warranty work for system installation and manufacturers equipment installed.

Final payment will not be released until contract closeout is complete.

269400 SEQUENCE OF CONTRACT WORK

- 1.0 Description - This project work shall be subject to strict coordination of all trades to permit completely normal operations of this facility throughout the construction and renovation of the existing facility.
- 2.0 Contractor Work Phasing - This contractor shall phase all work to meet the foregoing conditions of the project work.