



TOWN OF MAMARONECK WESTCHESTER COUNTY, NEW YORK

www.townofmamaroneckny.org

Contract TA 24-02

Upgrades of HVAC Systems at Hommocks Park Ice Rink

Bid Opening Date & Time: **Friday, January 12th, 2024.
11:00 a.m. E.S.T.**

Bid Opening Location: **Town Center Offices
740 West Boston Post Road
Mamaroneck, New York 10543
Conference Room C**

TOWN OF MAMARONECK
WESTCHESTER COUNTY, NEW YORK
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NOTICE TO BIDDERS

UPGRADE OF HVAC SYSTEMS FOR HOMMOCKS PARK ICE RINK
CONTRACT TA-24-02

NOTICE IS HEREBY GIVEN that sealed bids will be received by the Town of Mamaroneck until 11:00 AM on Friday, January 12th 2024, in the Town offices at 740 West Boston Post Road, Mamaroneck, New York 10543, at which time and place said sealed bids will be publicly opened and read aloud for the furnishing and/or placing of the following work:

Upgrade of HVAC Systems for Hommocks Park Ice Rink

The Information for Bidders, Form of Proposal and Contract, and Specifications of this project are available for examination. Free online access to documents can be obtained by viewing the solicitation posting on the Empire State Purchasing Group website: <https://www.bidnetdirect.com/new-york>. Paper bid documents can also be viewed at the Town Administrator's Office in the Town of Mamaroneck, Town Center at 740 West Boston Post Road, Mamaroneck, NY, 10543. Questions pertaining to this contract, including scheduling a site visit, shall be directed to Town Engineer Robert Wasp at (914) 381-7835; or by email at RWasp@townofmamaroneckny.org. All technical questions should be directed to Tietjen Venegas Consulting Engineers at (914)-967-9505.

Each bidder shall deposit a bid bond, certified check or cash in the amount of not less than 5% of the total bid amount as required for bid security. Bids are requested to be held for a period of up to 45 days after the opening of bids. Should the successful bidder fail to execute the form of contract and furnish the required performance bond, labor and material bond and insurance documents within ten (10) days after notice of award, the bid check, bond or cash will be forfeited to the Town of Mamaroneck as liquidated damages. Checks, bonds or cash of unsuccessful bidders will be held until the contract is approved or all bids rejected.

Each bidder shall also include with their bid, complete answers to the questions presented on the qualification form(s). In addition, vendors making proposals must supply three municipal references in addition to demonstrating the possession of the necessary equipment and experience. All bids must be submitted in sealed envelopes plainly marked:

**"BID FOR CONTRACT # TA-24-02 UPGRADE OF HVAC SYSTEMS FOR HOMMOCKS
PARK ICE RINK"**

The Town of Mamaroneck reserves the right to reject any or all proposals, or to waive any informality in the proposal, as deemed advisable in the interest of the Town.

By Order of the Town Board
of the Town of Mamaroneck, NY
Connie Green O'Donnell
Deputy Town Administrator

TOWN OF MAMARONECK
WESTCHESTER COUNTY, NEW YORK
www.townofmamaroneck.org

INFORMATION FOR BIDDERS

UPGRADE OF HVAC SYSTEMS FOR HOMMOCKS PARK ICE RINK
CONTRACT No. TA-24-02

GENERAL:

Sealed proposals for the upgrade of the HVAC systems for the Hommocks Park Ice Rink will be received by the Town of Mamaroneck having address at in the Town Offices at 740 West Boston Post Road, Mamaroneck, New York until **11:00 A.M., Friday, January 12, 2024**, at which time and place the proposals will be publicly opened and read.

SCOPE OF WORK:

The Contractor shall provide all labor, materials and equipment necessary to upgrade the Heating, Ventilation, and Cooling Systems at Hommocks Park Ice Rink as advertised in the bid specifications provided herein.

The selected Contractor shall be responsible for securing the work zone and protecting all of the existing adjacent areas from damages. The Contractor shall provide all of the necessary equipment, work, labor and materials to complete the retrofit work as specified. The Town of Mamaroneck will require a licensed electrician to perform the entire electrical portion of the work under Town permits. All fees for said permits will be waived by the Town. All products for intended use shall be submitted to the Town of Mamaroneck for approval before starting work.

Contractors submitting proposals must respond in writing to all of the requirements of this Request for Contract and shall provide a detailed reference sheet(s) to demonstrate their qualifications in this form of work. The work involved within this contract shall be performed in a safe and workmanlike manner by experienced tradespersons bearing all of the necessary manufacturer's qualifications, training and authorizations (if necessary).

GENERAL REQUIREMENTS:

1. Definitions of Terms:

The words "Town" & "Owner" and "RFP" & "Bid" & "Proposal" are used synonymously in these specifications.

2. Proposal Compliance:

Proposals should be submitted in a sealed envelope clearly labeled with the name of the bidder containing the identifying words "**Bid For Contract – UPGRADE OF HVAC SYSTEMS FOR HOMMOCKS PARK ICE RINK.**" All proposals must be addressed and submitted to the Office of the Town Administrator no later than **11:00 A.M., Friday, January 12, 2024**. Proposals submitted in

unmarked envelopes will not be accepted. However, time permitting the Town will accept resubmitted proposals granted they are properly labeled.

Prospective bidders are requested to contact the Town Engineer at (914)-381-7835 to confirm receipt of their proposal prior to the time of opening.

Bid opening remains scheduled for Friday January 12th – 11:00 AM. Those wishing to attend should expect to wait at the Town Center entrance. Town staff will meet bidders at 11:00 AM and will escort those in attendance to the bid opening location.

3. Proposal Form:

Each bid submitted must be written or typed on the attached “Form of Proposal.” Failure to do so will cause grounds for disqualification. All blank spaces must be filled in with unit costs expressed in both words and figures. **Contractors submitting proposals shall be required to bid on all of the work called for on the Form of Proposal.** It is implied that all unit prices shall include all labor, materials, equipment, mobilization and overhead costs. In case of a difference between the stipulated amount of the Proposal written in words and the stipulated amount written in figures, the stipulated amount stated in words shall govern. In addition, bidders must include on the proposal form an anticipated timeline in which they can complete the work, weather and temperature permitting.

4. Withdrawal of Bids & Proposals:

Bids may be withdrawn in person or writing by the vendor provided that notice is given during normal business hours up to two hours before the scheduled bid opening time. Once the bids and proposals are opened, prices shall remain in effect for the duration of the contract.

5. Acceptance or Rejection:

The Town of Mamaroneck reserves the right to reject any or all proposals or to waive any informality in the proposal, as deemed advisable in the interest of the Town. The Town also reserves the right to award the contract in whole or in part. All unit prices and alternate prices shall remain valid for the contract period and the Town of Mamaroneck may elect to accept or reject any item. Bids will not be accepted from firms which have pleaded guilty to or, otherwise, been convicted of bid rigging or related criminal charges. Nor will bids be accepted from firms which include a principal or an officer who has pleaded guilty to or otherwise been convicted of a bid rigging or related criminal charges. Such bidders are disqualified from bidding on this project.

6. Bidder’s Qualification:

Each bidder shall be skilled and regularly engaged in the class of work bid upon. Each Bidder shall complete and return with his bid the Qualification Questionnaire attached or supplement requested information with company resume. No bids will be considered from Bidders who are unable to show that they regularly provide services of the type herein called for. The Town of Mamaroneck may make any investigations it deems necessary to determine the ability of the Bidder to perform the specified work. The Bidder shall furnish to the Town all such information for this purpose as the Town may request. The Town of Mamaroneck will use the aforementioned submissions as part of the evaluation and selection process. Selection shall be based on possession of the necessary experience, equipment, trained personnel, professional references, project understanding and demonstration to provide a satisfactory record of cost-effective performance.

7. Familiarity with Bid Documents, Site Conditions, and Governing Law:

Each bidder is required to be familiar with all of this document's terms and conditions in addition to understanding all federal, state and local laws, regulations and ordinances regarding performing the work in accordance to this contract. Failure of the bidder to fully familiarize himself with conditions related to these specifications and to the project location for which the work is to be performed, shall not relieve any bidder from any obligation set forth in this contract.

Specific reference is made to the following sections of the Labor Law and General Municipal Law, which apply to the work under this contract.

- General Municipal Law-Section 103-c *Ground for Cancellation of Contract – Refusal to Testify*
- General Municipal Law-Section 103-d, re: *Non-collusion*
- General Municipal Law-Section 108, re: *Workers' Compensation Insurance*
- General Municipal Law-Section 109, re: *Non-assignment of Public Contracts*
- New York State Labor Law – *NYS Article 8 – Public Work*

8. Site Meeting:

There is non-mandatory pre-bid meeting scheduled for **Friday, January 5th, 2024 at 11:00 AM**. Prospective bidders are strongly encouraged to visit the Hommocks Park Ice Rink to observe existing conditions. Inspection of premises may be made by calling Robert Wasp, Town Engineer at (914) 381-7835 weekdays, between 9:00 a.m. and 4:00 p.m.

9. Term of Contract:

Work under this contract is to be completed according to the project milestone schedule advertised in 230000-2 § 1.3 of this bid document. The hours of operation shall match those of the Town offices unless permission is granted to the Contractor in writing. All work shall be in compliance with all applicable ordinances adopted by Town of Mamaroneck. Once the selected Contractor has mobilized to the site and has begun work, it is expected that the work shall continue until completion, weather and temperature permitting.

10. Bid Security and Bond:

Each Bidder shall, at the time of filing his proposal, deliver therewith cash or certified check in an amount not less than 5% of the total bid price. The successful bidder shall execute and deliver to the Town of Mamaroneck a written contract in the form attached hereto within ten (10) days after notice that the contract has been awarded.

In addition, the successful bidder, at his own cost and expense, shall furnish, at the time of delivering said contract, a performance bond in full amount of the contract price with a surety company approved by the Town Attorney of the Town of Mamaroneck, as surety and conditioned upon the faithful performance of the work in accordance with the contract and as security for the payment of labor and materials furnished. The said contract and bond shall be accompanied by proof of coverage by the successful bidder of worker's compensation, public liability and property damage insurance, and by a liability insurance policy covering the Town of Mamaroneck, all in the form and amounts shown on page of the Information for Bidders.

11. Maintenance Bond – Warranty of Work:

There will be no required submission for the standard **maintenance bond**. After the completion of the work and upon final payment, the Town will retain five percent (5%) of such payment for a period of twelve (12) months to warranty against defective materials and workmanship. However, should the contractor elect to offer a bond in lieu of retainage, the form included in the appendix shall be used. Additionally, the contractor shall transfer all manufacturers' warranty documents to the Town.

For the duration of the warranty period, the Contractor shall make any and all necessary repairs to any defect or product failure that may arise at his own expense. The Contractor shall acknowledge this warranty upon placing a signature on the "Articles of Agreement" document.

12. Errors, Interpretations, and Addenda:

Should bidders find any omissions, discrepancies or errors in the contract documents or should any bidder have doubt to the clarity of meaning of any written language, they should immediately notify **Robert Wasp, P.E. at the Town of Mamaroneck Engineering Department at (914) 381-7835 Telephone, (914) 381-8473 Fax or by e-mail rwasp@townofmamaroneckNY.org**

13. Payment:

The payment for materials under this contract will be based upon the bid item prices set forth in the bid proposal. The Contractor shall receive payments for all of the materials purchased, delivered and installed on the site as per the project plans after quantity verification, final inspection, and acceptance has been made by the Town of Mamaroneck. Any remaining surplus materials and hardware purchased and paid for under this contract shall remain in the custody of the Larchmont VAC upon project completion.

The Contractor shall be paid for his labor, equipment and overhead expenses as per the set LUMP SUM price stated on the accepted bid proposal. The mobilization, work zone preparation, demolition, salvage operations, site protection, final restoration and demobilizing are all deemed "non-payment" items which costs are to be considered as part of this LUMP SUM payment. Applications for payment may be submitted on a monthly basis based upon the percentage of lump sum items completed to date during the prior 30 day period.

Project Retainage: Five (5) percent of the total amount of the bid shall be retained by the Town in a non- interest bearing account for a period of twelve (12) months. The monies retained by the Town shall not be released until a final inspection of all work and site restorations performed under this Contract have been completed to the satisfaction of the Town. A representative of the Town will perform the final inspection and will determine if the work performed under this Contract has been completed satisfactorily.

Should the Contractor elect to offer a one-year Maintenance Bond in lieu of retainage, all retainage held during construction will be released upon acceptance of Final Completion of the work.

14. Termination by the Owner:

If the Contractor defaults or neglects to carry out the work in accordance with the contract documents or fails to perform any provision of the contract, the Town of Mamaroneck may, after seven days written notice to the Contractor and without prejudice to any other remedy he may have, make good such

deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor or, at this option, may terminate the contract and take possession of the site and of all materials, equipment and machinery thereon owned by the Contractor and may finish the work by whatever method he may deem expedient, and if the unpaid balance of the contract sum exceeds the expense of finishing the work, such excess shall be paid to the Contractor, but if such expense exceeds such unpaid balance, the Contractor shall pay the difference to the Town of Mamaroneck.

15. Post Contract Award Meeting:

After a contract is awarded to the successful bidder(s) for the work described by these specifications, a meeting will be held with the Town Engineer to review each and every item of the specifications prior to the commencement of work to resolve any minor items not necessarily affecting the award of the bid and to explain progress reporting procedures and staff inspections. At this time, the Town and selected contractor shall confirm the final product selections to be ordered for each of the locations. Site visits may be conducted at this time for the purpose of restating the limits of work. A record of that meeting will be made a part of the contract file.

16. Inspection Procedures and Basis of Payment:

The Contractor shall call the Town Engineer each day when his/her labor forces are working for the Town of Mamaroneck. The Town shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for access and for inspection.

The Contractor shall keep on the work site, as necessary during its progress, a licensed electrician to perform related work. The licensed electrician shall represent the Contractor and all direction given to the electrician shall be binding as if given to the Contractor.

Payment for the work performed under this contract including but not limited to the securing of all permits and approvals, removal and disposal of the existing non-salvageable materials, purchase and installation of new materials, along with the preparation of the existing surfaces, subgrades, soils, hardware and any related site work shall be per Lump Sum (LS) under the respective bid items. There shall be no additional payments made for Contractor mobilization, demobilization, exploratory work, water, demolition of existing work areas, and final clean up. Furthermore, the Contractor shall secure the work zone at his/her expense. Applications for payment may be submitted on a monthly basis based upon the percentage of lump sum items completed to date during the prior 30 day period.

Final payment will not be released until a final inspection has been completed to the satisfaction of the Town and upon submission all manufacturer's warranties. A representative(s) of the Town will perform the final inspection and will determine if the work performed under this contract has been completed satisfactorily.

17. Insurance:

The successful bidder is required to furnish and maintain insurance in the name of the Town of Mamaroneck and its officers. Worker's Compensation and Employers' Liability Insurance and Unemployment Insurance shall be secured and maintained as required by New York State.

Upon the failure of the contractor to furnish, deliver and maintain such insurance as above provided, this contract may, at the election of the Town be forthwith declared suspended, discontinued and terminated. Failure of the Contractor to take out and/or to maintain or the taking out and/or maintenance of any

required insurance shall not relieve the Contractor for any liability under the contract, nor shall the insurance requirements be construed to conflict with the obligations of the Contractor. All required insurance must be in effect and continued during the life of the contract.

The Contractor's policy shall also include a contractual "HOLD HARMLESS" endorsement as follows:

"The Contractor shall, during the performance of this work, take all necessary precautions and place proper guards for the prevention of accident, and shall indemnify and save harmless the Town of Mamaroneck, their employees, officers and agents from all claims, suits and actions and all damages and costs to which they may be put by reason of death or injury to all persons or property of another resulting from unskillfulness, willfulness, negligence or carelessness in the performance of the work, or in guarding and protecting the same, or from any improper methods, materials, implements or appliances used in its performance or construction or on account of any direct or indirect act or omission by the Town of Mamaroneck, or any of their employees, officers or agents may have directly or indirectly caused or contributes thereto."

The successful bidder is required to furnish and maintain insurance in the name of the Town of Mamaroneck and its officers. See Appendix C for the insurance requirements.

No work shall commence or payments will be made to the Contractor until submission and approval of the insurance certificates.

18. Provisions of the New York State Labor Law

Applicable stipulations from the Labor Law applicable to all municipal contracts:

- (a) **Section 220.** Eight hours shall constitute a legal day's work for all classes of employees in this state except those engaged in farm and domestic service unless otherwise provided by law. No laborer, workman or mechanic in the employ of the Contractor, Subcontractor or another person doing or contracting to do the whole or a part of the work contemplated by the contract shall be permitted or required to work more than eight hours in any one calendar day or more than five days in any one week except in cases of extraordinary emergency caused by fire, flood or danger to life or property. No such person shall be employed more than eight hours in any day or more than five days in any one week except in cases or extraordinary emergency caused by fire, flood or damage to life or property. No such person shall be employed more than eight hours in any day or more than five days in any one week except in such emergency.
- (b) **Section 220-d.** Each laborer, workman or mechanic employed by such Contractor, Subcontractor or other person about or upon such public work, shall be paid the wages herein provided or as determined by NYS Department of Labor "Wage Rate Determination." Any person or corporation that willfully pays after entering into such contract, less than such stipulated minimum hourly wage scale shall be guilty of a misdemeanor and upon condition shall be punished, for a first offense by a fine of five hundred dollars (\$500.00) or by imprisonment for not more than thirty days, or by both fine and imprisonment for a second offense by a fine of one thousand dollars (\$1,000.00), and in addition thereto the contract on which the violation has occurred shall be forfeited.
- (c) **Section 220-e.** The Contractor agrees that in the hiring of employees for the performance of work under this contract or any subcontract hereunder, no Contractor, Subcontractor,

nor any person acting on behalf of such Contractor or Subcontractor, shall by reason of race, creed, color 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; that no Contractor, Subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance or work under this contract or account of race, color or national origin; that there may be deducted from the amount payable to the Contractor by the State or municipality under this contract a penalty of five dollars for each person for each calendar day in violation of the provisions of the contract; and that this contract may be cancelled or terminated by the State or municipality, and all monies due or to become due hereunder may be forfeited, for a second or any subsequent violation of the terms or conditions of this section of the contract.

The Contractor shall comply with all provisions the Labor Law of the State of New York regarding the schedule of hourly minimum wage rates for classifications found to be necessary to perform all of the work described within the scope of these contract documents.

19. Provisions of the General Municipal Law

Section 103-c, re: Ground for Cancellation of Contract. Each Prime Contractor hereby agrees to the provision of Section 103(a) of the General Municipal Law which requires that upon the refusal of a person, when called before a grand jury, head of state department, temporary state commission or other state agency, the organized crime task force in the Department of Law, head of a city department or other city agency which is empowered to compel the attendance of witnesses and examine them under oath, to testify in an investigation concerning any transaction or contract had with the state, any political subdivision thereof, a public authority or with any public department, agency or official of the state, or of any political subdivision thereof, or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant questions concerning such transaction or contract;

- (1) Such person, and any firm, partnership or corporation of which he is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contract with any municipal corporation or fire district, or any public department, agency or official thereof, for goods, work or services, for a period of five (5) years after such refusal, and to provide also that;
- (2) Any and all contracts made with any municipal corporation or any public department agency or official thereof, by which person, and by any firm, partnership, or corporation of which he is a member, partner, director or officer may be canceled or terminated by the municipal corporation or fire district without incurring any penalty or damages on account of such cancellation or termination, but any monies owing by the municipal corporation or fire district for goods delivered or work done prior to the cancellation or termination shall be paid.

Section 103-d, re: Non-collusion. Each Prime Contractor agrees, pursuant to General Municipal Law §103-d, to subscribe and affirm the following statement:

By submission of this bid, each bidder and each person signing on behalf of any bidder certified, 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 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 or indirectly, to any other bidder or to any competitor; and
- (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

Section 108, re: Workers' Compensation Insurance. This Contract shall be void and of no effect unless the person or corporation making or performing such contract shall secure compensation for the benefit of, and keep insured during the life of the contract, such employees, in compliance with the provisions of the Worker's Compensation Law.

Section 109, re: Non-assignment of Public Contracts. As provided in Section 109 of the General Municipal Law, the prime Contractor is prohibited from assigning, transferring, conveying, subletting or otherwise disposing of the same, or his right, title, or interest therein, or his power to execute such contract or any other person or corporation without previous consent in writing of the officer, board or agency awarding the contract. If any prime Contractor, to whom any contract is let, granted or awarded, as required by law, by any officer, board or agency in a political subdivision, or of any district therein, shall without the previous written consent specified in subdivision 1 of this section, assign, transfer, convey, sublet or otherwise dispose of such contract, or his right, title or interest therein, or his power to execute such contract, to any other person or corporation, the officer, board or agency which let, made, granted or awarded such contract shall revoke and annul such contract, and the political subdivision or district therein, as the case may be, and such officer, board or agency shall be relieved and discharged from any and all liability and obligations growing out of such contract to such Contractor, and to the person or corporation to which such contract shall have been assigned, transferred, conveyed, sublet or otherwise disposed of, and such Contractor, and his assignees, transferees or sub lessees shall forfeit and lose all monies, theretofore earned under such contract, except so much as may be required to pay his employees. The provisions of this section shall not hinder, prevent, or affect any assignment by any such Contractor for the benefit of his creditors made pursuant to the laws of this state. In the event a dispute arises out of this contract or which in any way affects the rights of any of the parties to it, the Contractor agrees to bring any action, proceeding or the legal process only in the State or Federal court jurisdiction in which the project is located and in no other forum.

20. Contact Information:

TOWN PERSONNEL:

Robert Wasp, P.E.

Town Engineer

Main Office..... (914) 381-7835

CONSULTANT ENGINEER:

Alex Doong, P.E.

Tietjen Venegas Consulting Engineers

68 Purchase Street, Rye, NY 10580

Main Office.....(914)-967-9505

UTILITIES & EMERGENCY SERVICES:

Dig Safely New York..... (800) 962-7962 or (811)

Westchester Joint Water Works..... (914) 698-3500

Town Police Department..... (914) 381-6100 or (911)

Town Fire Department..... (914) 834-2101 or (911)

**TOWN OF MAMARONECK
WESTCHESTER COUNTY, NEW YORK**

TECHNICAL SPECIFICATIONS

UPGRADE OF HVAC SYSTEMS FOR HOMMOCKS ICE RINK

LUMP SUM BID

Payment will be made to the Contractor, at his Lump Sum Bid Price, for the completion of all work shown on the Contract Drawings. Immediately after award, the Contractor shall submit a proposed schedule of values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work. This allocation will be reviewed by the Town and the Engineer, who will either accept it or recommend changes. If a mutually satisfactory agreement cannot be reached, the Engineer will have final say in determining the allocation.

TIME OF COMPLETION:

The Contractor shall provide the required bonds, insurance and other documents as may be required to complete this agreement and sign the Contract within **ten (10) business days** of notice of award. In the event that any portion of the contract is interrupted due to inclement weather, or any other good and sufficient reason, the contractor shall request an extension of time, in writing, to the Engineer. The Engineer may grant the Contractor an extension of time equal to the number of working days thereby.

PROJECT SCHEDULE:

Contractor must achieve the project milestone schedule outlined below:

December 27, 2023	Advertise for bids/ Plans & Specifications available for Bidders
January 5, 2024	Pre-Bid Walk Thru @ 11am
January 12, 2024	Receive Bids/Bid Opening @ 11am
January 25, 2024	Award Contract
February 12, 2024	Submission of shop drawings by contractor
February 19, 2024	Approval of shop drawings by Town & Engineer/Contractor to order equipment.
March 11, 2024	Shutdown of Multipurpose Room for start of removals and installation of new systems including exterior work
March 25, 2024	Shutdown and removal of existing boiler, radiation and piping/Start of installation of new systems for rest of building
May 20, 2024	Testing and completion of new systems
May 27, 2024	Punch list completed
June 3, 2024	Instruct Owner and Closeout Documents
June 10, 2024	Start Up, Project Completion

SUBMISSION OF PAYMENT REQUISITION

The Contractors shall submit AIA Form G702 and necessary attachments as well as payment submission forms located in this contract with Payment Requisitions.

COORDINATION OF WORK

It shall be the responsibility of each Contractor to coordinate his work under this Contract with any work being done by others in the vicinity, as well as with any private utilities and the Town of Mamaroneck in order that the work may proceed in an efficient and logical manner. The Contractor shall have no claim whatever against the Town of Mamaroneck, Engineer or other parties due to delays or other reasons caused by the work of others or his failure to coordinate such work.

LIQUIDATED DAMAGES:

The Contractor and his Sureties shall be liable for and shall pay to the Town of Mamaroneck the sum of \$900.00 (Nine Hundred Dollars) as fixed, agreed and liquidated damages for each calendar day of delay from the above stipulated completion, or as modified in accordance with the GENERAL CONDITIONS, until such work is satisfactorily completed and accepted.

NO SUBSTITUTIONS:

The Contractor shall bid the project as specified within this document. The Contractor shall not substitute materials, equipment or procedures from those identified in the specification document unless reviewed and approved by the engineer. Any alternate materials, equipment or procedures must be submitted along with the bid for review and approval by the Engineer.

CONTRACTOR TO CHECK DIMENSIONS AND SCHEDULES:

The Contractor will be required to check all dimensions and quantities shown on the schedules given to him by the Town of Mamaroneck, and shall notify the Town of Mamaroneck of all errors therein which he may discover by examining and checking the same. The Contractor shall not take advantage of any error or omission in these specifications and schedules. The Town of Mamaroneck will furnish all instructions should such error or omission be discovered, and the Contractor shall carry out such instructions as if originally specified.

EXCAVATION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES:

The Contractor's attention is directed to the State of New York, Department of Labor, Board of Standards and Appeals Industrial Code Rule 753 - "Construction, Excavation and Demolition Operations at or near Underground Facilities" effective April 1, 1975 and any amendments thereto.

CLEANING FINISHED WORK:

After the work is completed, all above grade and below grade structures shall be carefully cleaned free of dirt, broken masonry, mortar, construction and other debris and left in first class condition ready for use. All temporary or excess material shall be disposed of and the work left broom-clean to the satisfaction of the Town of Mamaroneck.

LAYOUT OF WORK:

The Contractor shall perform all layout work necessary for the satisfactory execution of the work as shown on the contract drawings and all costs in connection therewith shall be included in the unit prices bid for this contract.

WORK BY OTHERS:

It shall be the responsibility of the Contractor to coordinate his work under this Contract with any work being done by others in the vicinity, as well as with the private utilities and the Town of Mamaroneck DPW, in order that the construction may proceed in an efficient and logical manner. The Contractor shall have no claim whatever against the Town of Mamaroneck, Engineer or other parties due to delays or other reasons caused by the work of others or his failure to coordinate such work.

INTENT OF TECHNICAL SPECIFICATIONS:

The Technical Specifications included in this Contract indicate the general requirements for the type and quality of material to be furnished and installed, and work to be performed. The Contractor shall apply the general standards to the specific installations shown on the Contract Drawings. The Contractor shall adhere to the standards indicated in the Technical Specifications, and as ordered by the Engineer.

OSHA REQUIREMENTS:

The Contractor shall comply with the latest OSHA confined space entry requirements (29 CFR Part 1910).

The Contractor shall comply with the latest revised OSHA sheeting requirements (29 CFR Part 1926.650, 651, 652).

EMERGENCY TELEPHONE LIST

The Contractor shall provide to the Town of Mamaroneck three-(3) telephone numbers which grant 24 hour, 7 day a week contact with a principal within the Contractor's company. The telephone numbers shall be utilized by the Town of Mamaroneck in the event of an emergency situation arising during non-working hours.

SECTION 23 00 00

HEATING, VENTILATING AND AIR CONDITIONING

PART 1 – GENERAL

1.1 GENERAL

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. All work shall be in accordance with state and local codes and regulations.
- C. HC shall be a firm regularly engaged in the installation of heating, ventilating and air conditioning systems for a period of at least five (5) years and shall have the licenses and certificates required by local, county and state regulations. License/Certificate holder shall be an officer of the firm and have a minimum of five (5) years employment with the firm.
- D. HC shall apply for, obtain and pay for any required permits.
- E. Refer to Section 23 50 00 for Supplementary Conditions for Mechanical and Electrical Work, the requirement of which are part of the Work.
- F. All materials shall be new and without blemish or defects.
- G. Cutting and patching shall be in accord with Section 23 50 00.
- H. Refer to Section 23 50 00 for Coordination Drawing requirements.
- I. HC shall become familiar with drawings of other trades to understand work of other trades and its impact/effect on the HVAC work.
- J. All electrical components shall bear a UL label.
- K. HC shall provide Owner with invoices and other data required for utility rebates.
- L. HC shall fire-stop openings around pipes and ducts passing through floors and walls. Refer to Penetration Firestop System section of the specifications for materials and methods.
- M. The following abbreviations shall apply:
 - HC - Heating (HVAC) Contractor
 - EC - Electrical Contractor
 - GC - Contractor for General Construction
- N. HC shall visit site and ascertain existing conditions which relate to the work.

1.2 QUALITY ASSURANCE

- A. Requirements given herein may be affected by other related requirements of the project specifications. Correlation of contract re-counted is the responsibility of the Contractor.
- B. All HVAC Work on this project shall be governed by this Specification.

1.3 PROJECT MILESTONE SCHEDULE

- A. Contractor to be aware that time is of the essence for this project and that completion date must be achieved.
- B. Work shall be sequenced to maintain domestic water heating capacity at all times.
- C. The following schedule outlines key tasks and dates which must be met:

December 27, 2023	Advertise for bids/ Plans & Specifications available for Bidders
January 5, 2024	Pre-Bid Walk Thru @ 11am
January 12, 2024	Receive Bids/Bid Opening @ 11am
January 25, 2024	Award Contract
February 12, 2024	Submission of shop drawings by contractor
February 19, 2024	Approval of shop drawings by Town & Engineer/Contractor to order equipment.
March 11, 2024	Shutdown of Multipurpose Room for start of removals and installation of new systems including exterior work
March 25, 2024	Shutdown and removal of existing boiler, radiation and piping/Start of installation of new systems for rest of building
May 20, 2024	Testing and completion of new systems
May 27, 2024	Punch list completed
June 3, 2024	Instruct Owner and Closeout Documents
June 10, 2024	Start Up, Project Completion

1.4 SCOPE OF WORK

- A. HC shall provide all labor, material and appliances required for a complete heating, cooling and ventilating installation as shown on Drawings and hereinafter specified, including but not limited to the following principal items:
 - 1. Piping, Fittings, Valves
 - 2. Sheet Metal Work
 - 3. Insulation and Covering
 - 4. Foundations, Supports, Sleeves and Plates
 - 5. Shop Drawings
 - 6. Start-up, Tests and Adjustments
 - 7. Heat Pump System
 - 8. Energy Recovery Units
 - 9. Diffusers, Registers and Grilles
 - 10. Electric Motors, Motor Controllers and Wiring
 - 11. Automatic Temperature Controls
 - 12. Alternate Building Management System (BMS)

13. Guarantee

1.5 WORK IN CONNECTION WITH OTHER TRADES

- A. The following principal items of work will be done under other Sections of these Specifications.
1. Electric Wiring: HC shall furnish motor starters, controls and other electrical equipment as specified and deliver same to EC at job site for installation. EC shall provide all disconnect switches, fuses and wiring. All equipment, trim and controls furnished by others required to be mounted by HC shall be furnished to him for mounting.
 2. Responsibility: HC shall be held responsible for correct installation and operating of all material furnished by him under this contract whether or not equipment is installed by him.

1.6 PIPING, FITTINGS, VALVES

A. Piping:

1. Condensing Drain Piping: Copper tubing, Type "M", hard temper with soldered joints using DWV fittings.
2. Refrigerant Piping: Type ACR copper tubing with brazed joints. Piping to comply with ASTM B 280. All joints to be brazed.

B. Fittings

1. All fittings for copper tube shall be wrought copper joined using Silverbrite lead-free solder. Unions of brass pattern shall be used as required to facilitate the removal of equipment or accessories in connection with copper tube. Flanges shall be used on connections greater than 2". Fittings to be in accordance with ASME B16.18.

C. Valves

1. Provide shut-off valve to isolate each item of equipment for maintenance service and replacement.

D. Dielectric Fittings:

1. Piping connections between dissimilar metals shall be made with dielectric fittings or insulating fittings to prevent electrolytic corrosion. Dielectric fittings shall be of the screwed union type as manufactured by EPCO.

E. General Piping

1. Run, arrangement, position, connections, etc., of equipment and materials shown on the Drawings shall be taken as a close approximation to a true position and, while they shall be followed as closely as possible, right is reserved to change locations, etc., to accommodate any condition which might arise during progress of the work without additional compensation to Contractor for such changes.

2. Runs shall be straight and direct, forming right angles or parallel lines with building walls and other pipes, and be neatly and evenly spaced. Offsets will be permitted only where necessary to allow pipes to follow walls.
3. Responsibility for accurately laying out work rests with Contractor. Should interference occur, the Engineer's decision shall be final. Where so shown or required, piping shall be concealed in building walls or above ceilings.
4. Horizontal runs, except where concealed in partitions shall be kept as high as possible and close to walls. Cooperate with other trades that grouped lines will not interfere with each other.
5. Contractor shall take special care in supporting pipe to provide for expansion and venting. Pockets and traps shall be avoided but where required, shall be provided with drains. Provide air vents at all high points.

1.7 PIPING IDENTIFICATION, CODING AND PAINTING

- A. All piping in Boiler, Fan, Storage and Equipment Rooms and all piping above accessible ceiling shall be coded and identified as herein specified.
- B. Apply color-coded polyvinyl chloride pipe bands identifying pipe contents and direction of flow.
- C. Apply bands on 15' centers on piping in Equipment Rooms and 25' elsewhere on straight runs; at valve locations at point where piping enters and leaves a partition, wall, floor or ceiling.
- D. Apply bands at exit and entrance points to each vessel, tank or piece of equipment.
- E. Bands width shall be 8" for pipes up to 10" diameter and 16" wide for larger diameter piping. Letter heights stating service shall be preprinted on band, 3/4" high for 16" bands.
- F. For insulated pipes, apply bands after insulation and painting work has been completed.
- G. Provide 4 additional bands of each type for future use by Owner's personnel.
- H. Follow manufacturer's instructions for application procedures using noncombustible materials and contact adhesives.
- I. All piping shall be color coded in full accordance with ANSI 13.1, 1981 Standards. Pipe markers shall be as manufactured by Seton Name Plate Corp., or equivalent.
- J. All piping which is not insulated, tanks and equipment in Boiler Rooms shall be painted. Equipment provided with a factory finished coating shall be cleaned and touched up as necessary. Equipment provided with a factory primer shall be given two (2) coats of enamel paint after installation. Pipes, hangers, support and equipment shall be primed and given two (2) coats of enamel paint. Color for piping and tanks shall be in accordance with ANSI 13.1, 1975 Standard, color of equipment and supports shall be as directed by Architect.

1.8 SHEET METAL WORK

- A. Provide all sheet metal work for all systems shown on Drawings, including all required register boxes, diffuser collars, balancing dampers, fire dampers, and auxiliary work necessary to make the various system complete and ready for satisfactory operations.
- B. Except as noted, all sheet metal for systems shall be fabricated of galvanized steel. Galvanized sheet metal shall be of the best grade. Ducts shall be constructed, braced and reinforced and of a gauge thickness in accordance with SMACNA Duct Manual, latest Edition.
- C. Duct sealant to be UL181 A-M B-M listed
- D. Galvanizing must not peel or crack and surfaces must be smooth and free of foreign matter.
- E. Outside air ductwork shall be of aluminum construction.
- F. Any duct connections made with holes or open corners shall be opened and redone or soldered tight at the discretion of the Engineer. No caulking compound shall be used to cover imperfect workmanship. Panels shall be cross-creased for stiffness and supported with braces, ties and angles to prevent buckling.
- G. All Ductwork: Provide suitable balancing dampers as shown on Drawings or as required for proper distribution and balancing of airflow.
- H. Dampers shall be of the multiblade type unless otherwise indicated, with quadrants and locking devices. Furnish and install a splitter damper or butterfly damper at each branch takeoff.
- I. Outside air and shutoff dampers shall be Class 1 motorized dampers with an air leakage rate not greater than 4 cfm/ft² of damper surface area at 1.0-inch water gauge and shall be labeled by an approved agency when tested in accordance with AMCA 500D for such purpose. Outdoor air intake and exhaust dampers shall be installed with automatic controls configured to close when the systems or spaces served are not in use or during unoccupied periods except when used for economizer cooling.
- J. Double radius turning vanes shall be provided in all square elbows.
- K. Access doors shall be provided in all casings and ductwork for access to coils, and filters, dampers, fresh air intakes and all other such equipment and locations requiring maintenance or periodic inspection. Where doors are installed in insulated casings, or ducts, these doors shall be double thick steel with an insulated core. Access doors shall have continuous piano hinges and slide bar bolt locks with gasketed edges. Furnish ceilings and wall access doors for access to heating and ventilating equipment as specified.

1.9 INSULATION AND COVERING

A. General:

1. Insulate all piping, ductwork and equipment as herein noted.
2. All insulation work shall be performed under this Section.

3. All joints shall be butted firmly together. All insulation shall be installed in accordance with best practice of the trade and in accordance with manufacturer's recommendations. All workmanship shall be done so as to leave a smooth finish with no raveled edges.
4. Fittings shall be insulated with preformed sections and covered with Zeston fittings.
5. Provide high density insulation inserts under pipe supports and hangers.
6. For all piping, end joint strips and overlap seams shall be adhered with a vapor barrier mastic.
7. High density inserts and galvanized sheet metal shield shall be provided to maintain continuous insulation valve.
8. All insulation materials, adhesives, mastics and jackets assemblies shall be UL rated and classified. Ratings shall not exceed:

Flame	25
Fuel Contributed	50
Smoke Developed	50

9. Condensate Drain Piping: ½” fiberglass with Zeston preformed fittings.
10. Refrigerant Piping: 1” Armaflex, Preformed fire-resistant insulation for joints and fittings. Exterior piping shall include an ultra-violet (UV) resistant PVC jacketing.
11. All exposed refrigerant and drain piping to include line hide PVC jacketing.

B. Ductwork:

1. Air conditioning supply, return and outside air ductwork shall be insulated as herein noted.
2. External Insulation: All ductwork in fan and Mechanical Rooms; 6 lbs. density fiberglass board with reinforced ASJ jacket and corner beads. Insulation shall be wired on, impaled and all joints sealed with tape.
3. Not exposed to view (e.g., above hung ceiling) fiberglass blanket with FRJ aluminum jacket. Blanket shall be wired on, with all joints overlapped, pasted and sealed.
4. Thickness: All air conditioning ducts shall be insulated. Thickness as follows:

Indoor Supply	2” thick
Indoor Return	2” thick
Outside Air	3” thick

1.10 FOUNDATIONS, SUPPORTS, SLEEVES AND PLATES

- A. Unless otherwise noted, HC shall provide all foundations, hangers, and supports for his equipment including piping, air conditioning units, fans, fin pipe radiation and covers, ductwork, etc.
- B. All ductwork, piping, wiring, and equipment shall be hung or supported from structural members only.
- C. Ductwork shall be supported in accord with SMACNA Standards.

D. Piping:

1. All pipe shall be supported from building structure in a neat and workmanlike manner wherever possible, parallel runs of horizontal piping shall be grouped together on trapeze hangers.
2. Piping shall be supported by adjustable wrought iron, steel or malleable iron hangers. Pipe hangers, supports, etc., shall be primed with a coat of rust inhibitor primer. Hangers shall be of the clevis type selected to conform to the maximum recommended loads. Do not hang piping or equipment from work of other trades. Attachment to beams or joists shall be made with top beam or I-beam clamps that attach to both sides of the flange.
3. Hanger rods shall be steel threaded with nuts and lock nuts, size in accordance with the following schedule:

Pipe Size	Rod Size (diam)	Spacing
Up to 1 ½"	3/8"	6'-0"
1 ½" to 3"	3/8"	8'-0"
4" to 5"	5/8"	10'-0"
6" and over	¾"	12'-0"

4. Hanger spacing as above, but not over 18" from each change in direction of piping.
5. Vertical Pipe: Vertical piping shall also be supported on every floor with riser clamps.
6. Hangers: Hangers used to hang galvanized-coated pipe shall be galvanized. Hangers used to hang ungalvanized steel, pipe shall be steel. Hangers used to hang brass or copper pipe shall be brass or copperized steel or iron. Groups of pipes may be supported on a common trapeze, but pipe shall individually be permitted freedom of motion by roller or other approved support. Trapeze shall be made of angle iron with adjustable threaded steel rod supports.
7. Spacers: Groups of risers and horizontal running lines shall be provided with temporary spacers to maintain spacing and allow for separate pipe covering and maintenance.
8. Perforated Strap: Perforated strap iron and temporary wire supports are not permitted.
9. Hangers shall support piping from building structure to maintain required grade and pitch of pipelines, prevent vibration, secure piping in place, and provide for expansion and contraction. Hangers shall be secured to inserts wherever practical. Pipe supports shall give neat appearance. Provide clad shield where copper tubing is utilized.
10. Approved bolts and inserts shall be used for connecting supports, fixtures or equipment to masonry, wood plugs shall not be used.
11. Provide approved sheet metal shields to protect insulation at areas of contact with hangers and supports. Provide protective saddles as required, installed in approved manner. Shields to be "Insul-Shield" Insul-Coustic Corp.
12. Piping on side walls shall be supported from approved roller type brackets in sizes larger than 2" and "J" type for smaller sizes or from metal channels with adjustable brackets secured to wall.
13. All supports shall be fastened to structural members or additional steel supports provided by HC. Supports shall be attached to joist panel points.
14. Where pipes pass through masonry, concrete walls, foundations, or floors, HC shall set such sleeves as are necessary for passage of pipes. These sleeves shall be of sufficient size to permit 1" of insulation to be provided around pipe passing through. HC shall be responsible for exact location of these sleeves.

15. Sleeves shall not be used in any portion of building where use of same would impair strength or construction features of the building. Insert for supporting lateral pipes and equipment shall be placed and secured to form work, and all sleeve insert locations shall be thoroughly checked with Architect so as not to conflict with other trades.
16. Where pipes pass through floor or walls, they shall be provided with chromium plated escutcheons.
17. Unless otherwise noted, auxiliary steel supports for support of piping, ducts and mechanical equipment as required for particular applications or as directed and indicated on Drawings shall be by HC. All equipment hung from overhead construction shall have weight or equipment distributed by use of angle or channel iron beams as necessary and approved or substantially fastened to beams used for building structural support.
18. All operating equipment shall be supported so as to produce the minimum amount of noise transmission.
19. Provide vibration isolation devices for equipment having moving parts.
20. Floor mounted equipment shall be installed on 6" high reinforced concrete pads, provided by HC.
21. Hydronic and refrigerant piping to be installed and supported per Section 305 of the 2015 International Mechanical Code and be supported at distances not to exceed spacing in Table 305.4 or in accordance with ANSI/MSS SP-58.
22. Vibration rails and spring pipe hangers shall be provided for base mounted circulating pump.
23. Concrete pads for outdoor condensing units will be provided by Owner.

1.11 SHOP DRAWINGS

- A. All manufactured items shall be submitted for review before installation of same. Submission shall be in form of manufacturer's standard printed sheets, pamphlets or bulletins and shall be clearly indicated thereon as to size, type, etc.
- B. Before fabricating any work, HC shall prepare and submit drawings of all ductwork and complicated piping including coordination of lighting, ceiling grid, structural steel and connections to related equipment showing all dimensions and details of construction and installation. No work is to be fabricated until shop drawings are reviewed. Shop drawings shall be 1/4" equal to 1'-0" minimum scale.
- C. Review of submission shall mean review of equipment and/or fabrications as to design and performance only. Contractor shall be responsible for scheduling quantities, physical size to suit allowable space, electrical characteristics, etc.
- D. Any additional costs incurred due to substitution of equipment (e.g., electrical, structural, etc.) shall be borne by HC.
- E. The following items require a submission of shop drawings:
 1. Ductwork
 2. Insulation
 3. Supports and Hangers
 4. Heat Pump System (Indoor and Outdoor)

5. Energy Recovery Units
6. Diffusers, Registers and Grilles
7. Motor Controls
8. Automatic Temperature Controls

1.12 START-UP, TESTS AND ADJUSTMENTS

- A. HC shall balance out all air systems and submit test reports showing operational data to include the following:
 1. Motor power consumption for fans
 2. Air quantities at each outlet
 3. Fan RPM, air quantities, motor amperages
- B. Balancing shall be done by a certified balancing firm, NEBB, AABC, TABB.
- C. An allowance of four (4) additional four (4) hour periods shall be made to rebalance air if found necessary.
- D. HC shall furnish services of a qualified person, thoroughly familiar with job, to operate and make all adjustments so that system and control equipment shall operate as intended. This person shall make adjustments including balancing of air systems in cooperation with qualified representative of mechanical equipment manufacturers and temperature control manufacturer. Engineer is to be notified when this balancing is to be performed.
- E. When all work is in an acceptable operating condition, Owner shall be furnished with trade literature, parts lists, and operating and maintenance instructions for all equipment furnished. HC shall furnish two sets of bound operating and maintenance instructions for all equipment and systems.
- F. Final inspection and review shall be made only after proper completion of all of the above requirements.
- G. As part of the operating and maintenance manual HC shall provide a detailed listing (in a bound book) of the equipment installed.
- H. As a minimum the listing shall include:
 1. Unit type
 2. Unit designation
 3. Unit location
 4. Area or areas served by unit
 5. Starter location
 6. Unit manufacturer
 7. Model number
 8. Scheduled Capacity
 9. Electrical, Volts, Phase, Amps
 10. Motor HP
 11. Filter type, quantity and sizes
 12. Belt quantity and model

1.13 VARIABLE REFRIGERANT FLOW (VRF) HEAT PUMP UNITS

A. General

1. Variable refrigerant volume HVAC system includes
 - a. Outdoor/Condensing units:
 - 1) For quantity and model numbers, refer to schedule on drawings.
 - b. Indoor units
 - 1) For quantity and model numbers, refer to schedule on drawings.

B. System Description R2-Series (Simultaneous Heat/Cool)

1. Per the equipment schedule, the variable capacity, heat pump heat recovery air conditioning system basis of design is Mitsubishi Electric CITY MULTI VRF (Variable Refrigerant Flow) zoning system(s).
2. Acceptable alternative manufacturers, assuming compliance with these equipment specifications, are Daikin and Panasonic.
3. Simultaneous heating/cooling (heat recovery) systems shall consist of an outdoor unit, BC (Branch Circuit) Controller (or comparable branch devices), multiple indoor units, and an integral DDC (Direct Digital Controls) system. Each indoor unit or group of indoor units shall be capable of operating in any mode independently of other indoor units or groups. System shall be capable of changing mode (cooling to heating, heating to cooling) with no interruption to system operation. To ensure owner comfort, each indoor unit or group of indoor units shall be independently controlled and capable of changing mode automatically when zone temperature strays 1.8 degrees F from set point for ten minutes.
4. No additional branch circuit controllers (or comparable branch devices) than shown on the drawings/schedule may be connected to any one outdoor unit. Contractors proposing alternate systems requiring more branch devices than those included as the basis of design are responsible for additional piping & electrical costs and are required to identify additional costs & installation time required of other trades with their bid.

C. Quality Assurance

1. The units shall be listed by Electrical Testing Laboratories (ETL) and bear the ETL label.
2. All wiring shall be in accordance with the National Electrical Code (N.E.C.).
3. The units shall be manufactured in a facility registered to ISO 9001 and ISO14001 which is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

4. All units must meet or exceed the 2010 Federal minimum efficiency requirements and the ASHRAE 90.1 efficiency requirements for VRF systems. Efficiency shall be published in accordance with the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) Standard 1230.
5. System start-up supervision shall be a required service to be completed by the manufacturer or a duly authorized, competent representative that has been factory trained in system configuration and operation. The representative shall provide proof of manufacturer certification indicating successful completion within no more than two (2) years prior to system installation. This certification shall be included as part of the equipment and/or controls submittals.

D. Delivery, Storage and Handling

1. Unit shall be stored and handled according to the manufacturer's recommendation.

E. Warranty

1. The CITY MULTI units shall be covered by the manufacturer's limited warranty for a period of one (1) year parts and seven (7) year compressor to the original owner from date of installation.
2. Installing contractor shall meet manufacturer requirements to obtain extended manufacturer's limited parts and compressor warranty for a period of ten (10) years to the original owner from date of installation. This warranty shall not include labor.
3. Manufacturer shall have a minimum of fifteen (15) years continuous experience providing VRF systems in the U.S. market.
4. All manufacturer technical and service manuals must be readily available for download by any local contractor should emergency service be required. Registering and sign-in requirements which may delay emergency service reference are not allowed.
5. The CITY MULTI VRF system shall be installed by a contractor with extensive CITY MULTI install and service training. The mandatory contractor service and install training should be performed by the manufacturer.

F. Outdoor Units

1. R2-Series High Efficiency (Heat Recovery), Air Cooled Outdoor Units
 - a. General:
 - 1) The outdoor unit modules shall be air-cooled, direct expansion (DX), multi-zone units used specifically with VRF components described in this section and Part 5 (Controls). The outdoor unit modules shall be equipped with a single compressor which is inverter-driven and multiple circuit boards—all of which must be manufactured by the branded VRF manufacturer. Each outdoor unit module shall be completely factory assembled, piped and wired and run tested at the factory.

- 2) Outdoor unit systems may be comprised of multiple modules with differing capacity if a brand other than basis of design is proposed. All units requiring a factory supplied twinning kits shall be piped together in the field, without the need for equalizing lines. If an alternate manufacturer is selected, any additional material, cost, and labor to install additional lines shall be incurred by the contractor. Contractor responsible for ensuring alternative brand compatibility in terms of availability, physical dimensions, weight, electrical requirements, etc.
- 3) Outdoor unit shall have a sound rating no higher than 68 dB(A) individually or 70 dB(A) twinned. Units shall have a sound rating no higher than 52 dB(A) individually or 55 dB(A) twinned while in night mode operation. Units shall have 5 levels sound adjustment via dip switch selectable fan speed settings. If an alternate manufacturer is selected, any additional material, cost, and labor to meet published sound levels shall be incurred by the contractor.
- 4) Refrigerant lines from the outdoor unit to the indoor units shall be insulated in accordance with project specifications.
- 5) The outdoor unit shall have the capability of installing the main refrigerant piping through the bottom of the unit.
- 6) The outdoor unit shall have an accumulator with refrigerant level sensors and controls. Units shall actively control liquid level in the accumulator via Linear Expansion Valves (LEV) from the heat exchanger.
- 7) The outdoor unit shall have a high-pressure safety switch, over-current protection, crankcase heater and DC bus protection.
- 8) VRF system shall meet performance requirements per schedule and be within piping limitations & acceptable ambient temperature ranges as described in respective manufacturers' published product catalogs. Non-published product capabilities or performance data are not acceptable.
- 9) The outdoor unit shall be capable of operating in heating mode down to -25F ambient temperatures or cooling mode down to 23F ambient temperatures, without additional low ambient controls. If an alternate manufacturer is selected, any additional material, cost, and labor to meet low ambient operating condition and performance shall be incurred by the contractor.
- 10) The outdoor unit shall have a high efficiency oil separator plus additional logic controls to ensure adequate oil volume in the compressor is maintained. Oil return sequences must be enabled only during extended periods of reduced refrigerant flow to ensure no disruption to correct refrigerant flow to individual zones during peak loads. Systems which might engage oil return sequence based on hours of operation risk oil return during inopportune periods are not allowed. Systems which rely on sensors (which may fail) to engage oil return sequence are not allowed.
- 11) Unit must defrost all circuits simultaneously in order to resume full heating more quickly during extreme low ambient temperatures (below 23F). Partial

defrost, also known as hot gas defrost which allows reduced heating output during defrost, is permissible only when ambient temperature is above 23F.

- 12) While in hot gas defrost the system shall slow the indoor unit fan speed down to maintain a high discharge air temperature, systems that keep fan running in same state shall not be allowed as they provide an uncomfortable draft to the indoor zone due to lower discharge air temperatures.
- 13) In reverse defrost all refrigerant shall be bypassed in the main branch controller and shall not be sent out to the indoor units, systems that flow refrigerant through indoor units during reverse defrost shall not be allowed.

b. Unit Cabinet:

- 1) The casings shall be fabricated of galvanized steel, bonderized and finished.
- 2) The outdoor unit shall be tested in compliance with ISO9277 such that no unusual rust shall develop after 960 hours of salt spray testing.
- 3) Panels on the outdoor unit shall be scratch free at system startup. If a scratch occurs the salt spray protection is compromised and the panel should be replaced immediately.

c. Fan:

- 1) Each outdoor unit module shall be furnished with direct drive, variable speed propeller type fans only. Fans shall be factory set for operation at 0 in. WG. external static pressure, but capable of normal operation with a maximum of 0.32 in. WG. external static pressure via dipswitch.
- 2) All fan motors shall have inherent protection, have permanently lubricated bearings, and be completely variable speed.
- 3) All fans shall be provided with a raised guard to prevent contact with moving parts.

d. Refrigerant and Refrigerant Piping:

- 1) R410A refrigerant shall be required for systems.
- 2) Polyolester (POE) oil—widely available and used in conventional domestic systems—shall be required. Prior to bidding, manufacturers using alternate oil types shall submit material safety data sheets (MSDS) and comparison of hygroscopic properties for alternate oil with list of local suppliers stocking alternate oil for approval at least two weeks prior to bidding.
- 3) Refrigerant piping shall be phosphorus deoxidized copper (copper and copper alloy seamless pipes) of sufficient radial thickness as defined by the VRF equipment manufacturer and installed in accordance with manufacturer recommendations.

- 4) All refrigerant piping must be insulated with ½” closed cell, CFC-free foam insulation with flame-Spread Index of less than 25 and a smoke-development Index of less than 50 as tested by ASTM E 84 and CAN / ULC S-102. R value of insulation must be at least 3.
- 5) Refrigerant line sizing shall be in accordance with manufacturer specifications. Future changes to indoor unit styles or sizes must be possible without resizing/replacing refrigerant piping to any other branch devices or indoor units.

e. Coil:

- 1) Outdoor Coil shall be constructed to provide equal airflow to all coil face surface are by means of a 4-sided coil.
- 2) Outdoor Coil shall be elevated at least 12” from the base on the unit to protect coil from freezing and snow build up in cold climates. Manufacturers in which their coil extends to within a few inches from the bottom of their cabinet frame shall provide an additional 12” of height to their stand or support structure to provide equal protection from elements as Mitsubishi Electric basis of design. Any additional support costs, equipment fencing, and tie downs required to meet this additional height shall be responsibility of Mechanical Contractor to provide.
- 3) The outdoor heat exchanger shall be of zinc coated aluminum construction with turbulating flat tube construction. The coil fins shall have a factory applied corrosion resistant finish. Uncoated aluminum coils/fins are not allowed.
- 4) The coil shall be protected with an integral metal guard.
- 5) Refrigerant flow from the outdoor unit shall be controlled by means of an inverter driven compressor.
- 6) Unit shall have prewired plugs for optional panel heaters in order to prevent any residual ice buildup from defrost. Panel heaters are recommended for operating environments where the ambient temperature is expected to stay below -1F for 72 hours.
- 7) Condenser coil shall have active hot gas circuit direct from compressor discharge on lowest coil face area to shed defrost condensate away from coil and protect from Ice formation after returning to standard heat pump operation. While in Heat Pump operation this lower section of the Outdoor Evaporator coil shall continually run hot gas from the compressor discharge to protect the coil from ice buildup and coil rupture. Manufacturers who do not have an active hot gas circuit in the lower section of the Outdoor coil to protect coil from freezing shall not be allowed to bid on project in markets where the outdoor unit will see temperatures below freezing.

f. Compressor:

- 1) Each outdoor unit module shall be equipped with only inverter driven scroll hermetic compressors. Non inverter-driven compressors, which may cause inrush current (demand charges) and require larger generators for temporary power shall not be allowed.
- 2) Each compressor shall be equipped with a multi-port discharge mechanism to eliminate over compression at part load. Manufacturer's that rely on a single compressor discharge port and provide no means of eliminating over compression and energy waste at part load shall not be allowed.
- 3) Crankcase heat shall be provided via induction-type heater utilizing eddy currents from motor windings. Energy-wasting "belly-band" type crankcase heaters are not allowed. Manufacturers that utilize belly-band crankcase heaters will be considered as alternate only.
- 4) Compressor shall have an inverter to modulate capacity. The capacity for each compressor shall be variable with a minimum turndown not greater than 15%.
- 5) The compressor shall be equipped with an internal thermal overload.
- 6) Field-installed oil equalization lines between modules are not allowed. Prior to bidding, manufacturers requiring equalization must submit oil line sizing calculations specific to each system and module placement for this project.
- 7) Manufacturers that utilize a compressor sump oil sensor to equalize compressor oil volume within a single module shall not be allowed unless they actively shut down the system to protect from compressor failure.

g. Controls:

- 1) The unit shall be an integral part of the system & control network described in Part 5 (Controls) and react to heating/cooling demand as communicated from connected indoor units over the control circuit. Required field-installed control voltage transformers and/or signal boosters shall be provided by the manufacturer.
- 2) Each outdoor unit module shall have the capability of 4 levels of demand control based on external input.

h. Electrical:

- 1) The outdoor unit electrical power shall be 208/230 volts, 3-phase, 60 hertz per equipment schedule.
- 2) The outdoor unit shall be controlled by integral microprocessors.
- 3) The control circuit between the indoor units, BC Controller and the outdoor unit shall be 24VDC completed using a 2-conductor, twisted pair shielded cable to provide total integration of the system.

2. Branch Circuit (BC) controllers as required for simultaneous heat/cool systems

- a. General
 - 1) BC (Branch Circuit) Controllers (or comparable branch devices) shall include multiple branches to allow simultaneous heating and cooling by allowing either hot gas refrigerant to flow to indoor unit(s) for heating or subcooled liquid refrigerant to flow to indoor unit(s) for cooling. Refrigerant used for cooling must always be subcooled for optimal indoor unit LEV performance; alternate branch devices which do not include controlled refrigerant subcooling risk bubbles in liquid supplied to indoor unit LEVs and are not allowed.
 - 2) BC Controllers (or comparable branch devices) shall be equipped with a circuit board that interfaces to the controls system and shall perform all functions necessary for operation. The unit shall have a galvanized steel finish and be completely factory assembled, piped and wired. Each unit shall be run tested at the factory. This unit shall be mounted indoors, with access and service clearance provided for each controller. BC Controllers (or comparable branch devices) shall be suitable for use in plenums in accordance with UL1995 ed 4.
- b. BC Unit Cabinet:
 - 1) The casing shall be fabricated of galvanized steel.
 - 2) Each cabinet shall house a liquid-gas separator and multiple refrigeration control valves.
 - 3) The unit shall house two tube-in-tube heat exchangers.
- c. Refrigerant Piping (specifications in addition to those for outdoor unit):
 - 1) All refrigerant pipe connections shall be brazed.
 - 2) Future changes to indoor unit quantities or sizes served by BC Controller or comparable branch device must be possible with no piping changes except between the branch device and indoor unit(s) changing. Systems which might require future piping changes between branch device and outdoor unit—if changes to indoor unit quantities or sizes are made—are not considered equal and are not allowed.
- d. Refrigerant valves:
 - 1) Service shut-off valves shall be field-provided/installed for each branch to allow service to any indoor unit without field interruption to overall system operation.
- e. Condensate Management:
 - 1) BC Controller (or comparable branch device) must have integral resin drain pan or insulate refrigeration components with removable insulation that allows easy access for future service needs. Cabinets filled with solid foam insulation do not allow for future service and are not allowed.

f. Electrical:

- 1) The unit electrical power shall be 208/230 volts, 1 phase, 60 Hertz. The unit shall be capable of satisfactory operation within voltage limits of 187-228 (208V/60Hz) or 207-253 (230/60Hz).
- 2) The BC Controller shall be controlled by integral microprocessors.
- 3) The control circuit between the indoor units and outdoor units shall be 24VDC completed using a 2-conductor, twisted pair shielded cable to provide total integration of the system.

G. Indoor Units

1. Wall Mounted Indoor Unit

a. General:

- 1) The wall-mounted indoor unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, electronic modulating linear expansion device, control circuit board and fan motor. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, an auto restart function, and a test run switch. Indoor unit and refrigerant pipes shall be charged with dehydrated air before shipment from the factory.

b. Unit Cabinet:

- 1) All casings, regardless of model size, shall have the same white finish.
- 2) Multi directional drain and refrigerant piping offering four (4) directions for refrigerant piping and two (2) directions for draining are required.
- 3) There shall be a separate back plate which secures the unit firmly to the wall.

c. Fan:

- 1) The indoor fan shall be statically and dynamically balanced to run on a single motor with permanently lubricated bearings.
- 2) A manual adjustable guide vane shall be provided with the ability to change the airflow from side to side (left to right).
- 3) A motorized air sweep louver shall provide an automatic change in airflow by directing the air up and down to provide uniform air distribution.

d. Filter:

- 1) Return air shall be filtered by means of an easily removable, washable filter.

e. Coil:

- 1) Basis of design indoor units include factory-installed LEV/EEV. Alternative brands which require field-installed, accessory LEV or EEV kits are permissible only with written Engineer and Architect approval for the location of kits being submitted two weeks prior to bid date. EEV kits mounted in cavities inside fire-rated interior walls shall be mounted inside three hour fire rated enclosures with access panels supplied by the manufacturer. Enclosure type and placement require prior approval.
 - 2) The indoor coil shall be of nonferrous construction with smooth plate fins on copper tubing. The tubing shall have inner grooves for high efficiency heat exchange. All tube joints shall be brazed with phos-copper or silver alloy.
 - 3) The coils shall be pressure tested at the factory.
- f. Electrical:
- 1) The unit electrical power shall be 208/230 volts, 1-phase, 60 hertz.
 - 2) The system shall be capable of satisfactory operation within voltage limits of 187-228 volts (208V/60Hz) or 207-253 volts (230V/60Hz).
- g. Controls:
- 1) The unit shall include an IR receiver for wireless remote-control flexibility.
 - 2) Indoor unit shall compensate for the higher temperature sensed by the return air sensor compared to the temperature at level of the occupant when in HEAT mode. Disabling of compensation shall be possible for individual units to accommodate instances when compensation is not required.
 - 3) Control board shall include contacts for control of external heat source. External heat may be energized as second stage with 1.8°F – 9.0°F adjustable deadband from set point.
 - 4) Indoor unit shall include no less than four (4) digital inputs capable of being used for customizable control strategies.
 - 5) Indoor unit shall include no less than three (3) digital outputs capable of being used for customizable control strategies.
2. 4-Way Ceiling-Recessed Cassette with Grille for 2X2 Grid Indoor Unit
- a. General:
- 1) The indoor unit shall be a four-way cassette style indoor unit that recesses into the ceiling with a ceiling grille. The indoor unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, electronic modulating linear expansion device, control circuit board and fan motor. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, an auto restart function, an emergency operation function and a test run switch. Indoor unit and refrigerant pipes shall be charged with

dehydrated air before shipment from the factory. The unit shall be suitable for use in plenums in accordance with UL1995 ed 4.

b. Unit cabinet:

- 1) The cabinet shall be a compact 22-7/16" wide x 22-7/16" deep so it will fit within a standard 24" square suspended ceiling grid.
- 2) The cabinet panel shall have provisions for a field installed filtered outside air intake.
- 3) Four-way grille shall be fixed to bottom of cabinet allowing two, three or four-way blow.

c. Fan:

- 1) The indoor fan shall be an assembly with a turbo fan direct driven by a single motor.
- 2) The indoor fan shall be statically and dynamically balanced to run on a motor with permanently lubricated bearings.
- 3) The indoor fan shall be capable of three (3) speed settings, Low, Mid, and High.
- 4) The indoor unit shall have an adjustable air outlet system offering 4-way airflow, 3-way airflow, or 2-way airflow.
- 5) The indoor unit vanes shall have 5 fixed positions and a swing feature that shall be capable of automatically swinging the vanes up and down for uniform air distribution.
- 6) Grille shall include an optional "3D i-see" sensor, or equal, to work in conjunction with indoor unit control sequence to prevent unnecessary cooling or heating in unoccupied areas of the zone without decreasing comfort levels. Sensor must detect occupancy (not simply motion) and location of occupants by measuring size & temperature of objects within a 39' detecting diameter (based on 8.8ft mounting height) with 1,856 or more measuring points.

d. Filter:

- 1) Return air shall be filtered by means of a long-life washable filter.

e. Coil:

- 1) The indoor coil shall be of nonferrous construction with smooth plate fins on copper tubing. The tubing shall have inner grooves for high efficiency heat exchange. All tube joints shall be brazed with phos-copper or silver alloy.
- 2) The coils shall be pressure tested at the factory.

- 3) The unit shall be provided with an integral condensate lift mechanism that will be able to raise drain water 19-3/4" inches above the condensate pan.
- f. Electrical:
- 1) The unit electrical power shall be 208/230 volts, 1-phase, 60 hertz.
 - 2) The system shall be capable of satisfactory operation within voltage limits of 187-228 volts (208V/60Hz) or 207-253 volts (230V/60Hz).
- g. Controls:
- 1) Indoor unit shall compensate for the higher temperature sensed by the return air sensor compared to the temperature at level of the occupant when in HEAT mode. Disabling of compensation shall be possible for individual units to accommodate instances when compensation is not required.
 - 2) Control board shall include contacts for control of external heat source. External heat may be energized as second stage with 1.8°F – 9.0°F adjustable deadband from set point.
 - 3) Indoor unit shall include no less than four (4) digital inputs capable of being used for customizable control strategies.
 - 4) Indoor unit shall include no less than three (3) digital outputs capable of being used for customizable control strategies.
 - 5) A factory-installed drain pan sensor shall provide protection against drain pan overflow by sensing a high condensate level in the drain pan. Should this occur, the control shuts down the indoor unit before an overflow can occur. A thermistor error code will be produced should the sensor activate indicating a fault which must be resolved before the unit re-starts.
3. Vertical/Horizontal Ducted (Multi-Position Air Handler)
- a. General:
- 1) The multi-position indoor unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, electronic modulating linear expansion device, control circuit board and fan motor. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, and an auto restart function. Indoor unit and refrigerant pipes shall be charged with dehydrated air before shipment from the factory. The unit shall be suitable for use in air handling spaces in accordance with Section 18.2 of UL 1995 4th Edition, be tested in accordance with ANSI/ASHRAE 193 and have less than 2% air leakage at maximum airflow setting.
- b. Unit Cabinet:
- 1) The cabinet shall include a fixed bottom return, a fixed vertical discharge supply and be pre-painted, pre-insulated, 22 gauge galvanized steel.

- c. Fan:
 - 1) The indoor unit fan shall be an assembly with a single, statically and dynamically balanced direct drive fan with a high efficiency DC motor with permanently lubricated bearings.
 - 2) The fan shall have 3-speeds with the capability to operate between 0.3-0.8 In.WG selectable.
- d. Filter:
 - 1) The unit shall have a 1" filter rack with a reusable filter.
- e. Coil:
 - 1) The indoor coil shall be of nonferrous construction with smooth plate fins on copper tubing. The tubing shall have inner grooves for high efficiency heat exchange. All tube joints shall be brazed with phos-copper or silver alloy.
 - 2) The coils shall be pressure tested at the factory.
- f. Electrical:
 - 1) The unit electrical power shall be 208/230 volts, 1-phase, 60 hertz.
 - 2) The system shall be capable of satisfactory operation within voltage limits of 187-228 volts (208V/60Hz) or 207-253 volts (230V/60Hz).
- g. Controls:
 - 1) Control board shall include contacts for control of no less than two stages of external heat. The first stage of external heat may be energized when the space temperature is 2.7°F from set point for between 10-25 minutes (user adjustable). The second stage of external heat may be energized when the first stage has been active for no less than 5 minutes and the space temperature has not risen by more than 0.9°F.
 - 2) Indoor unit shall include no less than four (4) digital inputs capable of being used for customizable control strategies.
 - 3) Indoor unit shall include no less than three (3) digital outputs capable of being used for customizable control strategies.

H. Controls

1. Overview

- a. The control system shall consist of a low voltage communication network and a web-based interface. The controls system shall gather data and generate web pages accessible through a conventional web browser on each PC connected to the

network. Operators shall be able to perform all normal operator functions through the web browser interface.

- b. Furnish energy conservation features such as optimal start, request-based logic, and demand level adjustment of overall system capacity as specified in the sequence.
- c. System shall be capable of email generation for remote alarm annunciation.
- d. Provide central digital controller with BACNET interface to allow for integration into the existing BMS.

2. Electrical Characteristics

a. General:

- 1) Controller power and communications shall be via a common non-polar communications bus and shall operate at 30VDC.

b. Wiring:

- 1) Control wiring shall be installed in a daisy chain configuration from indoor unit to indoor unit, to the BC controller (main and subs) and to the outdoor unit. Control wiring to remote controllers shall be run from the indoor unit terminal block to the controller associated with that unit.
- 2) Control wiring for centralized controllers shall be installed in a daisy chain configuration from outdoor unit to outdoor unit, to the system controllers (centralized controllers and/or integrated web-based interface), to the power supply.

c. Wiring Type:

- 1) Wiring shall be 2-conductor (16 AWG), twisted, stranded, shielded wire as defined by the Diamond System Builder output.
- 2) Network wiring shall be CAT-5 with RJ-45 connection.

3. CITY MULTI Controls Network

- a. The CITY MULTI Controls Network (CMCN) consists of remote controllers, centralized controllers, and/or integrated web-based interface communicating over a high-speed communication bus. The CITY MULTI Controls Network shall support operation monitoring, scheduling, occupancy, error email distribution, personal web browsers, tenant billing, online maintenance support, and integration with Building Management Systems (BMS) using BACnet® interfaces. The below figure illustrates a sample CMCN System Configuration.

1.14 AIR-TO-AIR ENERGY RECOVERY VENTILATOR

D. General

1. Summary
 - a. This section includes Air-to-Air Energy Recovery Ventilators for indoor installation.
2. Related
 - a. Drawing and general provisions of the contract, including General Requirements Division 01, Division 23, Division 23 Specifications Sections, and common work requirements for HVAC apply to work specified in this section.
3. Quality Assurance
 - a. The ERV core shall be warranted to be free of manufacturing defects and to retain its functional characteristics, under circumstances of normal use, for a period of ten (10) years from the date of purchase. The balance-of-unit shall be warranted to be free of manufacturing defects and to retain its functional characteristics, under circumstances of normal use, for a period of two (2) years from the date of installation.
 - b. Manufacturer shall be able to provide evidence of independent testing of the core by Underwriters Laboratory (UL), verifying a maximum flame spread index (FSI) of 25 and a maximum smoke developed index (SDI) of 50 thereby meeting NFPA90A and NFPA 90B requirements for materials in a compartment handling air intended for circulation through a duct system. The method of test shall be UL Standard 723.
 - c. Certifications:
 - 1) The energy recovery cores used in these products shall be third party Certified by AHRI under its Standard 1060 for Energy Recovery Ventilators. AHRI published certifications shall confirm manufacturer's published performance for airflow, static pressure, temperature and total effectiveness, purge air (OACF) and exhaust air leakage (EATR). Products that are not currently AHRI certified will not be accepted. OACF shall be no more than 1.02 and EATR shall be zero when application design criteria reduce static pressure differential to zero or less.
 - 2) Entire unit shall be listed under UL 1812 Standard for Ducted Air to Air Heat Exchangers and comply with CSA Standard 22.2
 - d. Every unit to be factory tested prior to shipping: Motor Dielectric Voltage-Withstand Bench Test, Unit Dielectric Voltage-Withstand Test, Continuity of Internal Control Circuits Test, Unit Amperage Test.
4. Coordination
 - a. Coordinate size and location of all building penetrations required for installation of each Energy Recovery Ventilator and associated electrical systems.

- b. Coordinate sequencing of construction for associated plumbing, HVAC, electrical supply.

E. Products

1. Manufacturers

- a. Available Manufacturers: Subject to compliance with specifications contained within this document, manufacturers offering products that may be incorporated into the work include, but are not limited to:

- RenewAire

- b. Manufacturer should be in business for minimum 10 years manufacturing energy recovery ventilators.

2. Manufacturers Units

- a. Air-to-Air Energy Recovery Ventilators shall be fully assembled at the factory and consist of a fixed-plate cross-flow heat exchanger with no moving parts, an insulated [single][double] wall [G90 galvanized][painted] 20-gauge steel cabinet, [motorized supply air damper,] filter assemblies for both intake and exhaust air, enthalpy core, supply air blower assembly, [motorized exhaust air damper,] exhaust air blower assembly and electrical control box with all specified components and internal accessories factory installed and tested and prepared for single-point high voltage connection. Entire unit with the exception of field-installed components shall be assembled and test operated at the factory.

3. Cabinet

- a. Materials: Formed [single][double] wall insulated metal cabinet, fabricated to permit access to internal components for maintenance.
- b. Outside casing: 20 gauge, galvanized (G90) steel meeting ASTM A653 for components that do not receive a painted finish. [Painted components as supplied by the factory shall have polyester urethane paint on 20 gauge G90 galvanized steel.]
- c. Access doors shall be hinged with airtight closed cell foam gaskets. Door pressure taps, with captive plugs, shall be provided for cross-core pressure measurement allowing for accurate airflow measurement.
- d. Cabinet Insulation: Case walls and doors shall be fully insulated with 1 inch, expanded polystyrene foam insulation faced with a cleanable foil face on all exposed surfaces.
- e. Enthalpy core: Energy recovery core shall be of the total enthalpy type, capable of transferring both sensible and latent energy between airstreams. Latent energy transfer shall be accomplished by direct water vapor transfer from one airstream to the other, without exposing transfer media in succeeding cycles directly to the exhaust air and then to the fresh air. No condensate drains shall be allowed. The energy recovery core shall be designed and constructed to permit cleaning and

removal for servicing. The energy recovery core shall have a ten year warranty. Performance criteria are to be as specified in AHRI Standard 1060.

- f. Control center / connections: Energy Recovery Ventilator shall have an electrical control center where all high and low voltage connections are made. Control center shall be constructed to permit single-point high voltage power supply connections to the [non-fused][fused] disconnect
- g. Passive Frost Control: The ERV core shall perform without condensing or frosting under normal operating conditions (defined as outside temperatures above -10°F and inside relative humidity below 40%). Occasional more extreme conditions shall not affect the usual function, performance or durability of the core. No condensate drains will be allowed.
- h. Motorized Isolation Dampers: Exhaust Air and Supply Air motorized dampers of an AMCA Class I low leakage type shall be factory installed.

4. Blower Section

- a. Blower section construction, Supply Air and Exhaust Air: Blower assemblies consist of a 208-230V, 3 Phase, 60 HZ, ECM motor, and a direct driven backward-curved blower.
- b. Blower assemblies: Shall be statically and dynamically balanced and designed for continuous operation at maximum rated fan speed and horsepower.

5. Motors

- a. Blower motors shall be Premium Efficiency, EISA compliant for energy efficiency. The blower motors shall be totally enclosed (TEFC) and shall be supplied with factory installed motor starters.

6. Unit Controls

- a. Fan control: control: Terminal strip for EC motors
- b. Bypass economizer control: Differential enthalpy control, 2 position dampers with 100% airflow through the core or 100% airflow bypassing the core.
- c. Sensors: Dirty filter monitor for both airstreams.
- d. Timeclock Digital Time Clock wall mount, enclosed NEMA 1R enclosure, with up to 8 on/off cycles per day or 50 per week, 24VAC power, with battery backup protection of program settings against power failure to energize unit.
- e. Factory- installed microprocessor controller and sensors, Premium ERV controls that:
 - 1) Comply with requirements in Division 23 Section "Sequence of Operations for HVAC Controls"

- 2) Has factory-installed hardware and software to enable the building automation interface via BACnet to monitor, control, and display status and alarms
- 3) The microprocessor controller shall be capable of operating at temperatures between -20F to 160F
- 4) The microprocessor controller shall be a DIN rail mounting type
- 5) Factory-installed microprocessor controller shall come with backlit display that allows menu-driven display for navigation and control of unit
- 6) The microprocessor controller shall have the ability to communicate with the BMS via Modbus RTU/TCP and BACnet MSTP/IP
- 7) The microprocessor controller shall have integrated ethernet interface and a web server for displaying unit parameters
- 8) The microprocessor shall have near field communication (NFC) capability for android devices
- 9) The microprocessor controller shall have an internal programmable time clock that will allow the user to add up to different occupancy schedules and add holidays
- 10) The microprocessor control shall be capable of integral diagnostics
- 11) The microprocessor control shall be capable of IP or SI unit display
- 12) The microprocessor controller shall have a battery powered clock
- 13) The microprocessor controller shall at a minimum offer the ability for three modes of determining occupancy: a dry contact, the internal time clock or the BMS
- 14) A remote user terminal to allow for remote monitoring and adjustment of parameters, allowing ease of control access without going outdoors or into the mechanical room if desired by the user
- 15) The microprocessor controller shall have at a minimum (10) universal inputs/outputs (AI, DI, AO) and have (6) six relay outputs (DO)
- 16) The microprocessor controller shall have an integrated fieldbus port
- 17) The microprocessor controller shall have the capability for I/O expansion
- 18) The microprocessor controller shall have a micro-USB port to load the application program, the unit parameters, saving logs, etc.
- 19) The sensors that will be required for control are:
 - a) (2) Temperature sensor for fresh air and exhaust air
 - b) (2) Temperature and humidity sensor for outside air, return air
 - c) (2) Differential pressure sensors for filter alarms
 - d) [(2) Differential pressure sensors for measuring pressure drop across energy recovery core and for determining airflow in both airstreams]
 - e) (2) Adjustable current switches
 - f) [Field-installed duct or room IAQ sensor]
 - g) [Field-installed duct or room CO2 sensor]
 - h) [Field-installed duct static sensor]
 - i) [Field-installed room pressurization sensor]
- 20) The microprocessor controller shall have the capability to monitor the unit conditions for alarm conditions. Upon detecting an alarm, the microprocessor controller shall have the capability to record the alarm description, time, date, available temperatures, and unit status for user review. A digital output shall be reserved for remote alarm indication. Alarms to be also communicated via BMS as applicable. Provide the following alarm functions:

- a) Outside air temperature sensor alarm
- b) Outside air humidity sensor alarm
- c) Return air temperature sensor alarm
- d) Return air humidity sensor alarm
- e) Fresh air sensor alarm
- f) Exhaust air sensor alarm
- g) Dirty filter alarm
- h) Supply and exhaust air proving alarm
- i) [Outside airflow sensor alarm]
- j) [Exhaust airflow sensor alarm]
- k) [Duct static pressure sensor alarm]
- l) [Room pressurization sensor alarm]
- m) [CO2 sensor alarm]
- n) [TVOC sensor alarm]
- o) [Airflow out of range alarm]

21) Display the following on the face of microprocessor controller:

- a) Unit on
- b) [Unit economizer/bypass mode]
- c) [Heating status]
- d) Outdoor air temperature
- e) Outdoor air humidity
- f) Return air temperature
- g) Return air humidity
- h) Supply air temperature
- i) [Airflows in both airstreams]
- j) Unit on/off
- k) Fan on/off
- l) Damper status
- m) Alarm digital display

22) The microprocessor controller shall have factory pre-programmed multiple operating sequences for control of the ERV. Factory default settings shall be fully adjustable in the field. Available factory pre-programmed sequences on operations are:

- a) BMS Interface
 - BACnet IP

7. Filter Section

- 1) ERV shall have 2" thick MERV 13 disposable pleated filters located in the outdoor air and exhaust airstreams. All filters shall be accessible from the exterior of the unit.

F. Execution

1. Examination

- a. Prior to start of installation, examine area and conditions to verify correct location for compliance with installation tolerances and other conditions affecting unit performance. See unit IOM.
- b. Examine roughing-in of plumbing, electrical and HVAC services to verify actual location and compliance with unit requirements. See unit IOM.
- c. Proceed with installation only after all unsatisfactory conditions have been corrected.

2. Installation

- a. Installation shall be accomplished in accordance with these written specifications, project drawings, manufacturer's installation instructions as documented in manufacturer's IOM, Best Practices and all applicable building codes.
- b. Install unit with clearances for service and maintenance

3. Connections

- a. ERV's are to be installed per manufacturers' guidelines and industry Best Practices shall be incorporated, and duct connections are to conform to use material, weight, thickness, gauge, construction, and installation methods as outlined in the SMACNA publications below, and Division 23 of this document, and are to be made subject to the installation requirements shown above.
 - 1) HVAC Duct Construction Standards, Metal and Flexible, 3rd Edition, 2005
 - 2) HVAC Air Duct Leakage Test Manual, 2nd Edition, 2012
 - 3) HVAC Systems - Duct Design, 4th Edition, 2006
 - 4) Rectangular Industrial Duct Construction Standard, 2nd Edition, 2004
 - 5) Round Industrial Duct Construction Standards, 2nd Edition, 1999
 - 6) Thermoplastic Duct (PVC) Construction Manual, 2nd Edition, 1995
- b. Electrical installation requirements are specified in Division 26 of this document.

4. Field Quality Control

- a. Contractor to inspect field assembled components and equipment installation, to include electrical and piping connections. Report results to Architect/Engineer in writing. Inspection must include a complete startup checklist to include (as a minimum) the following: Completed Start-Up Checklists as found in manufacturer's IOM. Insert any other requirements here.

5. Start-Up Service

- a. Contractor to perform startup service. Clean entire unit, comb coil fins as necessary, and install clean filters. Measure and record electrical values for voltage and

amperage. Refer to Division 23 "Testing, Adjusting and Balancing" and comply with provisions therein.

6. Demonstration and Training

- a. Contractor to train owner's maintenance personnel to adjust, operate and maintain the entire Make-Up Air unit. Refer to Division 01 Section Closeout Procedures and Demonstration and Training.

1.15 DIFFUSERS, REGISTERS AND GRILLES

- A. Provide where shown on Plans, diffusers, registers and grilles of sizes and types indicated on Drawings. Unless otherwise noted on Plans, units shall be by Price or equivalent.
- B. Catalog numbers and performance data are based on Models scheduled on Drawings. Noise levels of all air terminals shall not exceed those of units specified.
- C. Velocity of air in the breathing zone shall not exceed 40' per minute.
- D. A complete schedule of diffusers, registers and grilles shall be prepared and submitted for review.
- E. Finish and color selected by the Owner.
- F. All air terminals shall be furnished by the manufacturer with sponge rubber gaskets around the frame periphery to provide an air tight seal against the wall or ceiling into which the air terminal is set. Gaskets shall be no less than 1/4" thick and shall be securely glued to the inside surface of the frame.

1.16 ELECTRIC MOTORS

- A. High efficiently motors shall be provided with all of the equipment furnished under this section.

1.17 ELECTRIC MOTORS, MOTOR CONTROLLERS AND WIRING

- A. HC shall furnish all necessary electrical controls, motor starter, switches, etc., for proper operation of equipment furnished by him under this Contract, and as herein noted.
- B. Separate magnetic starter with phase protection and thermal overload protection shall be used for all motors 1/2 HP and over. For motors 20 HP and above, provide reduced voltage starters.
- C. Separate manual starter with thermal overload protection for all motors 1/3 HP and under.
- D. Provide non-fused disconnect switches at exhaust fans.
- E. Electric service is 120/208 volt, 3 phase, 4 wire, 60 cycle. All motors 1/2" and under 1/2 HP shall be wired for 120-volt, single phase; motors 1/2 HP and over shall be 208 volts, 3 phase, exceptions as specified.

- F. All starters shall have Hand-Off-Auto push buttons and pilot lights.
- G. Provide all auxiliary contacts and controls required for interlocks and automatic operation of HVAC equipment as noted under temperature control specifications. Control circuit voltage shall not exceed 120 volts. Provide fused control transformers where required.
- H. HC shall be responsible for the proper electrical connections which will be done by EC and shall supply said EC with all necessary wiring diagrams to complete this installation.

1.18 AUTOMATIC TEMPERATURE CONTROL

- A. Provide all labor and material for a complete electric/electronic low voltage system of temperature controls.
- B. Work shall be complete in all respects, including labor, transformers, materials and necessary services, and shall be installed by competent mechanics regularly employed by the control manufacturer.
- C. The Sub-Contractor performing this work shall be a prime manufacturer presently engaged in the manufacture of direct digital temperature control systems. Installation shall be by factory-trained personnel regularly employed by the control's manufacturer.
- D. Complete control manufacturer shall maintain an adequate stock of spare parts and necessary service personnel locally to maintain and service the systems being installed and/or refurbished.
- E. Service personnel shall be equipped with the control manufacturer's approved tools, testing and calibrating apparatus necessary to perform the work specified herein.
- F. Complete control drawings shall be submitted for approval before field installation is started. The drawings shall give a complete description of all control elements complete air and water flow diagrams locating instruments, valves, etc. and show all schematic piping and wiring. In addition, the submittal shall include manufacturer's data sheets on each control component and a sequence of operation.
- G. All electrical wiring, including but not limited to line voltage, low voltage and miscellaneous conduit, connections, etc., required for the installation and operation of the ATCS, is to be provided by the H.C. Wiring methods and materials to be as specified in section.
- H. Installation of Valves and Wells: Automatic temperature control valves, separable wells, duct mounted devices and other pipe mounted control devices furnished shall be installed by the H.C.
- I. Installation, Service and Adjustment:
 - 1. On completion of job, complete adjust the control system. Instruct Owner's representative on the operation of control system and supply three (3) copies of control operating and instruction and maintenance manuals. Obtain from the Owner's

representative a signed receipt that he has received the instruction manuals and complete instruction of the operation of the system.

2. The control manufacturer shall guarantee the system and provide full-service contract (normal and emergency) for a period of one year from the date of substantial completion, at no additional cost to the Owner.
3. Full-service contract shall include emergency service with a response time of four (4) hours during the normal workday and eight (8) hours nights and weekends.
4. Normal service shall include a minimum of four (4) visits to check systems, calibrate controls, replace any parts and perform preventive maintenance.
5. A written report of work performed shall be provided to the Owner after each visit.
6. Service contract shall include all labor, parts and material required to maintain systems in top conditions.

J. Material Requirements:

1. General: All components shall be of the latest type produced by the control manufacturer.
2. Thermostats and/or sensors shall be mounted 54" above finished floor.

K. Dampers: Control dampers shall be substantially built-in steel frames fabricated from 2" channel or equivalent. Frames shall be equipped with brass trunnions and bearings and blade end stops. All damper blades shall be galvanized steel. The maximum blade width shall be 6". For the relief air dampers with blade, shall be sized to fit in wall, 3"-4" maximum. Furnish corner braces for all damper frames exceeding a 4 square foot area. Maximum width of any section shall be 48" and the maximum section height shall be 96". Furnish horizontal stiffening for any section exceeding 48" in height. Dampers for outdoor air and exhaust air applications shall be low leakage type and provided with neoprene seals on blade edges and end stops.

L. Damper Motors: Damper motors shall be gear train type with adjustable stroke, spring return and shall be of proper size to meet the power requirements, as determined by control manufacturer. Damper motor for relief air shall be of size able to fit in allowable space between relief louver and wall grille.

M. Sequence of Operation

1. VRF Heat Pump Units
 - a. Units to be controlled by controller furnished with system.
 - b. Room sensor to maintain space conditions.
 - c. Central controller to be installed in Mechanical Room.
 - d. Provide simplified room thermostat.
 - e. Units with outside air damper to close damper during unoccupied hours.
 - f. Central controller to schedule occupied and unoccupied hours.
2. Energy Recovery Units
 - a. Units to be controlled by controller furnished with units.
 - b. Units to run 1 hour before and after occupied hours.

- c. Provide motorized dampers on outside air and exhaust air.
 - d. Units to be off during un-occupied hours.
3. Wall, Cabinet Heaters and Baseboard
- a. Units shall be controlled by wall mounted thermostat to maintain space conditions.
 - b. Units to be disabled during summer mode. 60°F (adjustable) and above.
4. Exhaust Fans
- a. Toilet Room exhaust fan programmable timeclock shall activate fan during occupied hours and turn off during unoccupied hours.

1.19 TEMPERATURE CONTROL REMOVALS

- A. Removals of the existing equipment controls to be done by the Owners Building Management System vendor. BMS vendor to remove all controllers and wiring prior to removal of equipment. Removal of controls and wiring to be done in a manner as to not disrupt the existing BMS and the operation and control of existing equipment to remain.
- B. Existing BMS vendor is Atlantic Westchester, 914-666-2268.

1.20 BUILDING MANAGEMENT SYSTEM (BMS – ALTERNATE #1)

- A. Provide all labor and material to tie all new equipment into the existing BMS.
- B. Provide controllers, interface card, communication cards, programming to tie all new equipment to existing BMS system.
- C. Existing BMS is by Honeywell Spider
Contact info: Atlantic Westchester
Brian Hoffman, 914-666-2268
- D. Provide graphics of all new equipment including floor plans locating equipment and sensors. Provide graphics for each piece of equipment.

1.21 GUARANTEE AND SERVICE

- A. Refer to Section 235000.

END OF SECTION 230000

SECTION 260000
ELECTRICAL WORK

1.1 GENERAL

- A. Electrical work shall be done as a sub-contractor to the HC who shall be responsible for the work and payment.
- B. Due to the nature of the work and the rigid time schedule required, the utmost cooperation between Contractors must be maintained.
- C. All work shall be performed by a licensed electrician.
- D. Removals and Relocations Work shall be as specified in Section 23500.
- E. Cutting and rough patching work is as defined in Sections 23500.
- F. Submittal requirements are as outlined in Section 23500 and General Conditions.
- G. Record drawings are as outlined in Section 23500 of the Conditions.
- H. All work shall be in strict accord with the National Electric Code (NEC).
- I. The Electrical Sub-Contractor shall obtain all permits and pay all fees.
- J. All components shall bear U.L. labels.
- K. EC shall be a firm regularly engaged in the installation of electrical systems for a period of at least five (5) years and shall have the licenses and certificates required by local, county and state regulations. License/Certificate holder shall be an officer of the firm and have a minimum of five (5) years employment with the firm.
- L. The following abbreviations shall apply:
 - HC - Heating (HVAC) Contractor
 - EC - Electrical Sub-Contractor
 - GC - Contractor for General Construction

1.2 QUALITY ASSURANCE

- A. Requirements given herein may be affected by other related requirements of the project specifications. Correlation of contract requirements is the responsibility of the Contractor.
- B. All Electrical Work on this project shall be governed by this specification.

1.3 SCOPE OF WORK

- A. EC shall provide all labor, material and appliances required for a complete electrical installation as shown on drawings and hereinafter specified, including but not limited to the following principal items:
 - 1. Grounding and Equipotential Bonding
 - 2. Hangers and Supports

3. Wiring in Connection with Other Trades
4. Motor Protection Wiring
5. Testing
6. Raceways and Pull Boxes and Outlet Boxes
7. Wires and Cables
8. Disconnect Switch and Motor Controllers
9. Over Current Devices
10. Shop Drawings
11. Guarantees

1.4 GROUNDING AND EQUIPOTENTIAL BONDING

- A. Grounding as required by governing codes and/or indicated for grounding distribution systems, conduits, panels, motors, wiring devices, and non-carrying metal parts.
- B. Use grounding type bushings on feeder conduits. At receptacles the ground terminal is connected with #14 copper wire to screw lug or "jiffy" terminal on outlet box.
- C. Inaccessible and permanent connections made by Exothermic Process grounding terminal fastened to equipment brazed with the metal being thoroughly cleaned, and bolted connections silver plated.
- D. At panelboard cabinets and switchboards connect the grounding bushings to ground lug with copper conductor or, sized per NEC based on current carrying capacity of largest conductor or feeder entering panelboard. Minimum size #12 AWG.
- E. Wire all raceways, conduit, cabinets, outlets, etc., so that they are mechanically jointed into continuous electrical conductor. At service board, raceway shall be bonded with a bare copper wire to service equipment enclosure. At boxes, fittings and enclosures, lock nuts and bushing shall be used to provide mechanically secure connections.
- F. Only threaded fittings shall be used on rigid conduit; compression fittings on EMT.
- G. Equipment grounding shall be in accordance with NEC.
- H. Equipment Grounding: Equipment grounding conductors commonly described as a "green wire" shall be provided for feeders and branch circuits protected by over current devices rated 30A and over and all motors, and also in raceways buried in earth or using flexible conduit regardless of size of over current protection. Equipment ground will consist of metallic connection to ground of non-current carrying metal parts of wiring system or apparatus connected to system, including metal raceways, busways, outlet boxes, cabinets, switch boxes, motor frames, transformer cases and metallic enclosures for electrical equipment. The primary objective of equipment grounding is greater safety and assurance of clearing a fault.
- I. Metallic conductor shall be enclosed in same raceway as phase conductors and shall be insulated. Where multiple raceway are required, separate grounding conductor shall be provided for each raceway.

1.5 HANGERS AND SUPPORTS

- A. Support conduits on "Kindorf" wall bracket or ceiling trapeze hangers with "Kindorf" #C105 straps secured by toggle bolts on hollow masonry units. "Kindorf" concrete inserts or A & J shields to suit conditions in concrete or brick, machine screws on metal and wood screws on wood.

- B. Nails will not be permitted. Support suspended conduits by "Kindorf" lay in type hangers when run singly and "Kindorf" trapeze hangers in groups. Grouped runs, symmetrical where bends occur, nest to a uniform radius. Support lateral runs of piping securely on hangers, brackets, etc., and in manner to allow for expansion and elimination of vibration.
- C. Brace and support risers and other vertical pipe runs with split ring hangers having threaded rods and wall plates, friction clamps or other approved means suitable for location and requirements. Do not support conduit from another conduit of piping or mechanical system. Spacing of supports shall be according to the NEC. Space limitations in hung ceiling spaces and conditions in other locations may require use of other type of hangers than those specified above. Provide suitable and approved hangers for such job condition.
- D. In areas of the buildings where wood beams were employed, hanger rods shall be supported from side beam brackets bolted through the beam similar to ITT Grinnell Figure 202.
- E. As required, where rods can be supported to steel beams use a beam clamp.
- F. Inserts for small work - Ackerman - Johnson, for large work, expansion shields. Wooden plugs not permitted.
- G. Equipment hung from Overhead Construction: Have weight of equipment distributed by use of angle and channel iron to beams used for building structural support.
- H. Hanger Rods: Steel, threaded with nuts and lock nuts, sizes in accordance with the following schedule:

<u>Conduit Size</u>	<u>Rod Size</u>
3/4" to 2" inclusive	3/8"
2-1/2" to 3-1/2" inclusive	1/2"
4" to 5"	5/8"

- I. Where the hanger rod supports more than a single run of conduit, use the following:

Rod Size - inches	3/8	1/2	5/8
Loading Rate – pounds per pair	800	1512	2424

- J. Manufacturer: Kindorf, ITT Grinnell, Unistrut, or Globe.

1.6 WIRING IN CONNECTION WITH OTHER TRADES

- A. Provide conduit, wiring, appurtenances and make all connections to motors, etc., to make systems operate as intended in accordance with the requirements of the specifications and as hereinafter specified. HC will furnish (after review) detailed wiring diagrams, shop drawings, instructions and equipment for installation.
- B. Provide wiring and conduits to all equipment furnished under other contracts and provide a complete system. Do all wiring and make all connections.
- C. Refer to shop drawings of all equipment furnished by others for proper equipment sizes, voltage, phase characteristics, space requirements, etc., and verify with requirements on drawings.
- D. In addition to the control devices requiring wiring, specifically shown or scheduled on the drawings, EC shall allow for the wiring of three (3) additional devices, to allow for variations shown on final shop drawings. Included shall be 45'-0" of 3/4" 4#14 for each device and the necessary connections.

1.7 MOTOR PROTECTION AND WIRING

- A. Be responsible for the installation of proper size thermal overload, fuse and circuit breaker protection of motor (3 overloads to be provided for 3 phase equipment).
- B. Upon completion of connections to any motor and when all mechanical features permit operation of motor, operate said motor and determine that its direction of rotation and method of operation is correct. Take ammeter readings on all motor leads to determine starting current and steady state full load operating current, record these readings, and determine the following:
 - 1. Proper value of heaters for thermal overload protection.
 - 2. Proper value of time-delay fuses to provide safe motor operation without unnecessary blowing on starting currents but sized as close as possible to the steady state running current.
 - 3. The proper setting of circuit breakers for motor protection as in above.
 - 4. Insert proper heaters, proper fuses and make proper settings on circuit breakers. Furnish to the Architect a record of the following for each motor:
 - a. Starting current of motor.
 - b. Full load steady state running current.
 - c. Size of heater in thermal protective device
 - d. Size of fuses.
 - e. Trip rating of circuit breakers.
- C. Make motor connections with short length (18" minimum) flexible metallic conduit (neoprene jacketed) to allow free movement of motor vibration.

1.8 TESTING

- A. Upon completion of new and existing portions of electrical systems changed by EC, systems shall be tested for short circuits and grounds, including but not limited to insulation resistance testing on feeders.

1.9 RACEWAYS AND PULL BOXES

- A. General: Raceway system shall be continuous, concealed or exposed as indicated, for feeders, branch circuits, systems of all voltages, etc., to afford complete removeability of all conductors and accessibility of junction boxes in accordance with codes. Manufacturer's name and UL label to appear on each length of conduit (3/4" minimum unless otherwise noted)
- B. Type of raceways shall be as follows for all feeders, distribution, branch light and power circuits and all low-tension systems:

<u>Application</u>	<u>Type of Conduit</u>
Exposed Outdoors	Rigid Aluminum
Buried in Concrete	Galvanized rigid steel

Buried in masonry	Galvanized rigid steel
In hallow partitions or hung ceilings Greenfield	EMT, Galvanized rigid steel, or MC cable, Romex, where permitted by code
Exposed in unfinished areas	EMT, Galvanized rigid steel, Rigid aluminum conduit
Exposed in finished areas	Not permitted.
In or below floor slabs	PVC with metallic elbows where turned up.
Conduit for ground conductors	Rigid galvanized conduit
Underground	Electric service-HDPE-schedule 40 with schedule 80 sweeps. Others schedule 40 PVC with schedule 80 sweeps.
Exposed to weather	Rigid standard weight aluminum conduit.

- C. Run conduit or Wiremold and install outlets carefully and coordinate with other trades to avoid piping, ducts and other mechanical equipment. Where possible Wiremold shall be run up against existing molding strips. Do not cross pipe shafts or ventilation duct openings. Exact location of wall and floor outlets are to be determined from architectural drawings of other trades having work in the area. In no case will any extras be allowed due to failure or neglect to determine exact locations before installation.
- D. All conduits shall be reamed, burrs removed, and conduits cleaned for the proper introduction of wire. All conduit ends shall be capped and plugged with standard conduit accessories as soon as same have been permanently installed in place.
- E. Conduit to be bent as required without flattening or scarring conduit finish. Conduit distorted and/or scarred will be rejected and replaced at no expense to Owner.
- F. No conduit to run either directly above or below heating pipes or directly under water pipes. Maintain at least 3" between raceway and parallel pipe covering and at least 1" at right angle crossing.
- G. Avoid traps conducive to collection of moisture. Insert sealed fittings where conduits leave building interior above ground or enter refrigerated or hazardous areas.
- H. Underground conduits to slope away from building. Conduits entering or leaving building above or below grade shall be sealed with duct seal.
- I. No chasing of exposed block walls permitted. Conduits to run in voids of blocks.
- J. Where conduits occur in groups in slabs or partitions, care must be taken not to weaken the structure. Where such a condition occurs, consult Architect before work progresses.
- K. Where metallic raceways pass thru expansion joints, provide "OZ" type AX or DX expansion fitting, within raceways system per manufacturer approved installation method.

- L. No wiring is to be installed before conduits and outlets are permanently secured in place; in concrete pours before concrete is poured and set; in concealed conduits located in plastered rooms before brown scratch has been applied to walls and ceilings.
- M. Provide insulating bushings and double locknuts on all conduits.
- N. Compression raintight connections shall be used on EMT.
- O. No set screw type connectors allowed in any conduit work. Use threaded joints and paint all underground conduits two (2) coats of asphaltum paint.
- P. Install all sleeves and box openings in walls and floors required for installation.
- Q. Provide "OZ" type CB metal closing caps on empty conduits that remain empty after final inspection and approval.
- R. Provide minimum #12 AWG drag line in empty conduits.
- S. Flexible conduit shall be used when running in voids of structural planking and in making up short flexible connections to rotating or vibrating machinery or equipment, or as otherwise indicated on drawings.
- T. Mechanically join together all wire raceways, conduit, etc., into a continuous electrical conductor. At sub distribution panel, raceways must be bonded with bare copper wire to service equipment enclosures. Provide grounding bushings on all conduits entering the panelboards, distribution panels, switchboards, etc.
- U. Install Wiremold and conduit runs parallel with or at right angles to walls and ceilings. Run along molding and trim where possible.
- V. Test all conduits installed and left empty for clear bore and correct installation with ball mandrel, brushes and snake, before installation will be accepted. Ball mandrel to be approximately 85% of internal diameter of raceway to be tested. Mandrel assembly to include two short brushes. Snaking of raceways to be done in presence of representative of Architect. Any conduit which rejects the mandrel must be cleared at once. All work such as chopping concrete, etc., replacing defective conduit and restoring surface to original condition is to be done at no expense to Owner.

1.10 OUTLET BOXES

- A. General: Plans show conditions as accurately as possible to indicate them in scale, but do not necessarily show all the fittings, etc. necessary to suit building conditions. Locations of outlets, appliances, etc. are approximate. Responsibility remains with the EC for proper locations in order to make them fit with architectural details and instructions from Architect's representative at job site. Before installation of conduit for switches, receptacles, ceiling lights, or motors, the Architect and Engineer reserve the right to move each outlet location to better adapt them for usage prior to installation, within a distance of 5'-0" as presently indicated, at no additional cost to Owner.
- B. Type: Hot dipped galvanized of size to accommodate devices and wiring installed, provide with covers to suit function. Wherever boxes are located in exposed masonry walls, use only straight composition type with hub conduit entries and gaskets. Boxes and covers for exposed work, cast aluminum with suitable cover plate. All floor box outlet locations must be verified by Architect prior to installation. Surface Wiremold raceway system shall contain proper Wiremold fittings and boxes as required for a complete installation.

- C. Location: Heights are indicated above finished floor to center of devices and are for estimating purposes only. Exact locations shall match existing or as noted on drawings.

Receptacles	General 18", where at counters, 6" above counter.
Lighting Switches	48"
Panels	Not higher than 6'-0" to top breaker or switch.

- D. Where height of wall outlets is not given locate as best suited for extension to equipment supplied and as directed. Where special conditions exist, locate outlets as directed.
- E. In center outlets, allow for overhead pipes, ducts, etc. and variations in arrangement and thickness of fireproofing and plastering also window trim, paneling, etc. Any inaccuracy resulting from failure to do this must be corrected without expense to Owner.
- F. Coordinate location of electrical equipment with work of other trades. Verify all door swings before roughing for switches, etc. Outlets set in exposed block wall to be set vertically and line up with joints in coursing.
- G. Installation: Securely fasten outlet boxes. Use hangers to support outlets in hung ceilings. Use galvanized bar irons attached through openings inside of the outlet box for outlets in hung ceilings. Outlets to be accessible by removal of fixtures or access panel. Equip outlets with fixture stud. Fixture outlet boxes must be set so the edge of outlet box comes flush with finished surfaces except where cast in slab, outlet boxes may then be set flush with slab. Erect wall and switch outlets in advance of furring and fireproofing and firmly secure to steel work with metal straps. Make necessary adjustment to work so outlets are properly centered after interior finish is erected. Set outlets to line up with joints in ceiling tile or in center of one tile block.
- H. For terminating conduit at all boxes, fittings, and enclosures, use Thomas & Betts #3870 series insulated grounding and bonding bushings, or equivalent. Always use double locknuts.
- I. Exterior boxes to be cast aluminum, weatherproof with all required gaskets.
- J. Manufacturer: Crouse-Hinds, Raco, Steel City, Hubbell, Wiremold.

1.11 HANDHOLES, SPLICE BOXES AND PULL BOXES

- A. Handholes and Pull Boxes: For all underground electrical, telephone and cable to service. Provide precast handholes with heavy duty traffic rated covers. Covers shall be labeled for services and voltages. Handholes for utility services shall also meet utility requirements. Provide Quazite brand, traffic rated as required.

1.12 WIRES AND CABLES

- A. General: Conductors #8 and larger - copper stranded, #10 and smaller, solid copper, 600V insulation. Insulation to be THHN, specified on plans.
- B. Flexible cord (minimum #14) type S, SO or SJ as required. Power and light wiring - #12 minimum size. Where home runs exceed 75 ft. wire size to be increased to limit voltage drop. Voltage drop shall be limited to a 2% max. The size of conductors shown on drawings is for copper conductors, and only copper conductors shall be used.

- C. Where concealed and permitted MC armored cable with THHN conductors may be used for branch circuit wiring.
- D. Maintain consistent phase identification throughout utilizing colored insulation or braids; colors used for identification shall match existing.
- E. Colored tapes, paints, or tags will not be acceptable.
- F. Control Wiring: Terminal strips marked in black on a white background, and wires consistently color coded to avoid confusion and permit easy identification of conductors. Use IPECA color code wherever possible, no two wires in the same raceway to be the same color. Control wiring - #14 minimum installed in conduit.
- G. Installation: Interior of raceway into which wire or cable is installed shall be cleaned of all burrs, dirt and obstructions before wire is pulled. Use lubricant designed for pulling wires.
- H. Connect stranded copper conductors with solderless connecting lugs drilled the full diameter of the conductor, or Thomas & Betts compression type. Lugs for cables larger than #2/0 to have to bolts mounting with heavy copper washers for copper lugs. No splices on feeders will be permitted, except by special permission.
- I. Taps in stranded conductor where permitted "OZ" type PT cable tape with type PTC bakelite covers. Splices in branch circuits to occur only where such circuits divide. No screw caps or wire nuts will be permitted.
- J. Connect branch circuits to panels in such a manner that load balance is within 10% with all circuits in operation.
- K. Circuit numbers indicated on drawings are shown as a guide only and should not be followed when connecting branch circuits to panel.
- L. Tagging of Wires and Cables: Identify all wiring in pull boxes, panels, cabinets, wiring troughs and other enclosures, and at all terminal points, with laminated tags. Clearly tag each wire to indicate origin and circuit number of piece of equipment or circuit it feeds.
- M. Manufacturers: Hatfield, General Cable, Anaconda, Circle, Crescent, Okonite, Triangle.

1.13 WIRE SPLICING AND TERMINATING OF 600 VOLT CONDUCTORS

- A. Splices of wires up to 3 #8 conductors shall be made with pressure type connectors. Wire nuts or screw caps will not be permitted. Splices above this size shall be made with approved mechanical connectors, Scotchfill and Scotch #88 vinyl tape.
- B. Splices in cables #6 gauge and larger shall be made with cast sleeve type connectors with set screws, Scotchfill and Scotch #88 vinyl tape.
- C. Copper conductor terminations shall be made with mechanical set screw, pressed copper lugs. Two bolt lugs shall be used if necessary to obtain sufficient contact surface of 200 amperes per square inch, or to maintain rigidity in terminating large cable.
- D. Small wire splices shall be made with Thomas & Betts, Sta-Kon or equivalent pressure connectors.
- E. Large wire splices shall be made with OZ type XW and OX type XTP or equivalent connectors.

- F. Terminal lugs shall be pressed copper screw lugs as made by MAC or equivalent.
- G. Splices in manholes, handholes, and other damp or wet locations shall be made with suitable kits to form a watertight and waterproof splice. Splice kits shall be Anaconda, Buchanan, Line Materials, Minnesota Mining and Manufacturing or Thomas & Betts.

1.14 DISCONNECT SWITCHES

- A. Where required by code and/or noted on drawings, provide safety switch (fused or unfused as required up to 60A size or enclosed circuit breaker with trip as indicated for 100A and over) to disconnect all circuit to motors or appliances.
- B. Style: Totally enclosed type with cover interlocked with operating mechanism to prevent opening by unauthorized personnel when switch is closed. Include provisions for locking switch in "off" position with a means provided for defeat of this feature. Mechanism to be quick make-quick break. All copper surfaces to be tin plated. Line terminals to be provided with insulating shield to protect against accidental contact.
- C. Fused switches to be provided with cartridge fuse and pole for each ungrounded leg. Neutrals to be solid unless otherwise specified or required. Do not fuse switches in excess of 80% of rated capacity.
- D. Switches in equipment spaces shall be H.D. Heavy Duty enclosure type. Switches exposed to the weather or within 10'-0" of sinks, etc. shall be in NEMA 4 enclosure.
- E. Motor Disconnect Switches: Where not indicated to be provided in other sections of specifications and where required by code, provide disconnect switches as described.

1.15 OVER CURRENT DEVICES

- A. Circuit Breakers: Underwriters' Laboratories approved bolt-on type, quick make-quick break type to operate in any position, not depending on gravity to provide operating force with trip free handle to prevent breaker being held closed against overloads. Clearly indicate "on", "off", and "tripped" position. Operating mechanism to be ambient compensated, providing thermal tripping on overloads and magnetic tripping on "shorts" or overloads in excess of ten times breaker trip setting. All breakers above 100 amperes rating shall have interchangeable trips.
- B. Circuit breakers shall be suitable for 120/208 volts.
- C. Multiple pole circuit breakers shall be center trip to open all poles simultaneously. No tied or bailed handled breakers allowed. Provide barriers between poles of load connection terminals.
- D. Circuit breakers shall be rated for available 3 phase bolted fault short circuit current with utility and motor contributions. Series rating of devices is acceptable. Electrical contractor shall establish available/current and device time/current coordination.

	Trip	Frame	Interrupting Rating Capacity SYM-RMS AMP/
Single Pole Lighting	20A-100A	100A	14,000

Single Pole (Power)	20A-70A	100A	14,000
Multi-Pole (dist & power)	71A-225A	225A	22,000
	226A-400A	400A	30,000
	401A-600A	600A	65,000
	800A	800A	65,000

- E. Circuit on panelboards shall be arranged for sequencing phasing. Furnish separate lugs for each conductor and secure to bus bars by bolts, two stud bolts used for all lugs for conductors #2/0 and larger.
- F. Provide 100% rated circuit breakers where indicated on the Drawings.
- G. Manufacturer: Square D, G.E., Westinghouse, Cutler Hammer, Bussmen.

1.16 SHOP DRAWINGS

- A. All manufactured items shall be submitted for review before installation of same. Submission shall be in form of manufacturer's standard printed sheets, pamphlets or bulletins and shall be clearly indicated thereon as to size, type, etc.
- B. Review of submission shall mean review of equipment and/or fabrication as to design and performance only. Contractor shall be responsible for scheduling quantities, physical size to suit allowable space, electrical characteristics, etc.
- C. Any additional costs incurred due to substitution of equipment shall be borne by E.C.
- D. The following items require a submission of shop drawings:
 - 1. Disconnect switches
 - 2. Raceways
 - 3. Conductors
 - 4. Circuit Breakers

1.17 GUARANTEE

- A. Refer to Sections 235000.

END OF SECTION

SECTION 235000

SUPPLEMENTARY CONDITIONS FOR MECHANICAL AND ELECTRICAL WORK

1.1 GENERAL

- A. Requirements set forth herein are in addition and shall be considered as complementary to the General and Additional ALL PRIME CONTRACTORS and their SUB-CONTRACTORS shall familiarize themselves with said provisions.
- B. It is intent of Drawings and Specifications to call for finished work, tested and ready for operation. All materials, equipment and apparatus shall be new, of highest grade and quality and free from imperfections.
- C. Any apparatus, appliance, material or work not shown on Drawings, but mentioned in Specifications, or vice versa, or any incidental accessories or minor details now shown but necessary to make work complete and perfect in all respects and ready for operation, even if not particularly specified, shall be provided by Contractor without additional cost to Owner.
- D. With submission of Bid, Contractor shall give written notice to Architect of any materials, apparatus or omissions believed to be in violation of laws, ordinances, rules or regulations or authorities having jurisdiction. In absence of such written notice, it is mutually agreed that Contractor shall include cost of providing all systems in accordance with applicable regulations without additional cost to Owner.

1.2 EXAMINATION

- A. Contractor, before submitting Bid, shall examine site, building and existing facilities, Drawings and Specifications, inform himself as to State and local codes and laws having jurisdiction, allow for licenses and fees to be paid as directed under his Contract and/or as required by law.
- B. Claims made for extra payment for the following reasons will not be allowed: Unfamiliarity with work to be performed by other trades, existing conditions at job site, local or State laws and codes and minor alterations due to field conditions.

1.3 CONTRACT DOCUMENTS

- A. Drawings and Specifications Drawings accompanying these Specifications are intended to show general arrangement and extent of work to be done. Work in all its details is subject to approval of Architect, whose decision on all points of difference shall be final and binding on Contractor. Any work or materials which are rejected must be immediately replaced by Contractor.
- B. Drawings and Specifications together mutually explain each other and indicate work to be done, and anything appearing in one and not in other shall be as if appearing in both. In case of disagreement between Drawings and Specifications or within either document itself as to better quality, greater quantity or more costly work shall be included in contract price and matter referred to Engineer's attention for decision or adjustment.

1.4 EQUIPMENT LOCATIONS

- A. Location of equipment, outlets, etc., as indicated on Drawings shall be considered as reasonably correct, but it shall be understood that they are subject to modifications as may be found necessary or desirable at time of installation in order to meet any unforeseen or design conditions. Such changes shall be made by Contractor without additional cost to Owner.
- B. Locations of pipes, ducts, electrical raceways, switches, panels, equipment, fixtures, etc., shall be adjusted to accommodate the work to interferences anticipated and encountered. The Contractor shall determine the exact route location of each pipe, duct and electrical raceway prior to fabrication.
- C. Offsets, transitions and changes in direction in pipes, ducts and electrical raceways shall be made as required to maintain proper headroom and pitch of sloping lines, whether or not indicated on the Drawings. The Contractor shall provide for all trades, air vents, pull boxes, etc. as required to effect these offsets, transitions and changes in direction.
- D. Architect reserves right to relocate any outlet or equipment to a distance of five feet in either direction from that indicated or described; said changes, if any, will be requested prior to installation and shall be made without additional cost to Owner.

1.5 COOPERATION

- A. The Contractor shall compare the mechanical and electrical Drawings and Specifications with those for other trades and shall report any discrepancies between them to the Engineer and shall obtain from him written instructions for changes necessary in the mechanical and electrical work. The mechanical and electrical work shall be installed in cooperation with other trades installing interrelated work. Before installation, the Contractor shall make proper provision to avoid interference in a manner approved by the Architect. All changes required in the work of the Contractor caused by his neglect to do so shall be made by him at his own expense.
- B. Every effort shall be made not to damage, soil or scratch the work of other Contractors.
- C. In case of damage to work or materials of other Contractors, he shall be required to pay for such damage as may be incurred. Architect shall be sole arbitrator in this matter.

1.6 SPACE CONDITIONS

- A. Work shall be confined to space allowed for it. If space is not sufficient, Architect shall be notified. More space shall not be used unless authorized by Engineer.

1.7 ACCESSIBILITY

- A. Contractor shall install all work so that all parts required are readily accessible for inspection, operation, maintenance and repair. Minor deviations from Drawings may be made to accomplish this, but changes of magnitude shall not be made without prior written approval from Architect.
- B. The Contractor shall install all mechanical and electrical work to permit removal (without damage to other parts) of coils, heat exchanger bundles, fan shafts and wheel, draw-out

circuit breakers, filters, belt guards, sheaves and drives and all other parts requiring periodic replacement or maintenance. The Contractor shall arrange pipes, ducts, raceways, traps, starters, motors, control components to clear the openings of swinging doors and of access panels.

1.8 ACCESS DOORS

- A. Location: Access doors in building construction through which a man must pass to repair or operate valves and other apparatus will be provided by others. All other required access doors, panels, cabinets, etc. shall be furnished by Contractor requiring same, for access to equipment provided under his Contract. Access doors shall be provided for valves, cleanouts, air vents, dampers, and for adjustments of apparatus where necessary and required. Access doors shall be installed by General Contractor. Doors must be made at job site so as not to cause delay to other trades.
- B. Type: Access doors shall have angle frame, cold rolled steel, shaped to provide a rabbet on all sides to house door and confine wall. Frames shall be 16 gauge steel, doors 14 gauge to 29" dimension vertical or horizontal and 12 gauge for larger sizes. Hinges shall be concealed type permitting a door swing of 175°. Panels shall have prime coat of gray rust inhibitive paint. Access panels shall be similar to "Milcor" as manufactured by Inland Steel Products Company, Style "K" for plastered surfaces and Style "M" for masonry and tile surfaces. Panels must be available at job site, not to cause delay to other trades.

1.9 DAMAGE

- A. Each Contractor shall protect and leave in perfect condition materials, apparatus, fittings, fixtures and trim in scope of his Contract. Should any items be damaged or broken or workmanship molested, no matter by whom such damage is caused, work must be corrected and damaged items replaced with new units by Contractor at no additional cost to Owner. Work which needs redoing because of damage shall be done by skilled trade which originally performed such work.
- B. Any adjustments between Contractors relative to damage to work or materials shall not be responsibility of Owner, Architect or their representatives.

1.10 LAW ORDINANCES, PERMITS AND FEES

- A. The Contractor shall give all necessary notices, obtain all permits, pay all governmental taxes, fees and other costs in connection with his work, file for necessary approvals with the Town or Village and all other State governmental departments having jurisdiction, obtain all required certificates of inspection for his work and deliver same to the Architect before request for acceptance and final payment for the work.

1.11 CODES AND STANDARDS

- A. Contractor shall include in his Bid any labor, materials, services, apparatus, Drawings (in addition to Contract Documents), necessary to comply with all applicable codes, specifications, local ordinances, industry standards and utility company regulations.

- B. In case of difference between building codes, specifications, State laws, local ordinances, industry standards and utility company regulations and Contract Documents, most stringent shall govern. Contractor shall promptly notify Engineer in writing of any such difference.
- C. Noncompliance: Should Contractor perform any work that does not comply with requirements of applicable building codes, State local ordinances, industry standards and utility company regulations, he shall bear all costs arising in correcting deficiencies.
- D. Applicable codes and standards for material furnished and work installed shall include all State laws, local ordinances, utility company regulations, special requirements of Owner's insurance underwriters, requirements of governmental agencies having jurisdiction, and applicable requirements of following nationally accepted codes and standards:
- E. Codes:
 - 1. International Building Code
 - 2. International Mechanical Code
 - 3. International Energy Conservation Code
 - 4. International Fuel Gas Code
 - 5. National Electrical Code
- F. Industry Standards, Codes and Specifications:
 - AIEE American Institute of Electrical Engineers
 - ANSI American National Standards Institute
 - ASHRAE American Society of Heating, Refrigeration & Air Conditioning Engineers
 - ASME American Society of Mechanical Engineers
 - ASTM American Society of Testing Materials
 - AWWA American Water Works Association
 - IPCEA Insulated Power Cable Engineers Association
 - NBS National Bureau of Standards
 - NEMA National Electrical Manufacturers Association
 - NFPA National Fire Protection Association
 - NEC National Electrical Code
 - UL Underwriters' Laboratories
 - AGA American Gas Association
 - SMACNA Sheet Metal Contractors National Association

1.12 DEFINITIONS

- A. The term "Contractor" or "this Contractor" shall be interpreted to mean individual, partnership, or corporation to whom Contract has been awarded.
- B. Whenever the terms "provide" or "provided" are used in the specifications, they shall mean "furnish & install" or "furnished & Installed," "connect" or "connected", "apply" or "applied", "erect" or "erected," "construct" or "constructed," or similar terms, unless otherwise indicated in the specifications.
- C. Words in the singular shall also mean and include the plural wherever the context so indicates, and words in the plural mean the singular wherever the context so indicates.

- D. Wherever the terms "shown on drawings" are used in the specifications, they shall mean "noted", "indicated," "scheduled," "detailed," or any other diagrammatic or written reference made on the drawings.
- E. Wherever the terms "material" or "materials" are used in the specifications, they shall mean any "product," "equipment," "device," "assembly" or "item" required under the contract, as indicated by trade or brand name, manufacturer's name, 10 standard specification reference or other description. The terms "approved" or "approval" shall mean the written approval of the Engineer.
- F. The terms "specification" or "specifications" shall mean all information contained in the bound or unbound volume, including all "Contract Documents" defined therein, except for the drawings.
- G. The terms "directed," "required," "permitted," "ordered," "designated," "prescribed" and similar words shall mean the direction, requirement, permission, order, designation or prescription of the Engineer; the terms "approved," "acceptable," "satisfactory" and similar words shall mean approved by, acceptable or satisfactory to the Engineer; the terms "necessary," "reasonable," "proper," "correct" and similar words shall mean necessary, reasonable, proper or correct in the judgement of the Engineer.
- H. "Piping" includes, in addition to pipe or tubing, all fittings, flanges, unions, valves, strainers, drains, hangers and other accessories relative to such piping.
- I. "Concealed" means hidden from sight in chases, furred spaces, shafts, hung ceiling, embedded in construction or in crawl spaces.
- J. "Exposed" means not installed underground or "concealed" as defined above.
- K. "Invert Elevations" means the inside bottom of pipe.
- L. "Wiring" includes, in addition to wire, all conductors, raceways, boxes, devices, supports, hangers and other accessories relative to such wiring.

1.13 REMOVALS AND RELOCATION

- A. All equipment, piping, ductwork, fixtures, wiring, etc., not incorporated into the new design shall be removed.
- B. Prior to removing air conditioning or refrigeration equipment. Systems shall be evacuated and refrigerant shall be reclaimed.
- C. Remove and/or relocate existing equipment, fixtures, wiring, piping and ductwork as required to accommodate architectural changes.
- D. Equipment, piping, ductwork, fixtures shall be removed or relocated by the Contractor normally installing same.
- E. Protect existing equipment, fixtures, piping, ductwork and wiring which is to remain. Existing equipment, which is reused, shall be checked for proper operation before removing.

If there are any deficiencies, notify Architect before removing, clean and check after reinstallation.

- F. Coordinate removals work with that of other trades. Any existing equipment, fixtures, piping, ductwork, etc., shall be so identified to the other Contractors. Should it be damaged or removed, it shall be repaired or replaced. Responsibility for protecting, identifying, storing, repairing and replacing shall be by the Contractor who would normally provide the item.
- G. Removals shall be complete and include all trim, supports and accessories.
- H. Where raceways, piping or ductwork cannot be removed, cap and make safe behind finished construction.
- I. No disruption of existing services will be permitted without prior approval of the Owner. Wiring and piping for equipment, which is to be relocated, shall be disconnected, relocated and reconnected.
- J. During the course of removing existing and installation of all new service, equipment, fixtures, piping, ductwork and wiring, no interruption of existing facilities will be permitted without the consent of the Owner. All new wiring, piping, ductwork and equipment shall be installed, connected and made ready for final connection to existing systems before disrupting services. These final connections shall be made with such force as may be required to minimize time of shutdown or discontinuance of existing services. Prior to making final connections to existing services, schedule with Owner exact time and duration of discontinuance of service.
- K. A minimum of five (5) days' notice shall be given to the Owner and other Contractors of any shutdown of service.
- L. Provide all piping, ductwork, wiring, raceways, equipment, appliances and labor required for temporary connections and bypasses necessary to permit continuous operation with minimal interruption of service.
- M. Disposition of equipment and fixtures being removed shall be reviewed with Owner. Equipment or fixtures, which the Owner wishes to retain, shall be carefully removed and set aside. All other equipment, fixtures and trim shall be removed from site and properly disposed of.

1.14 CUTTING AND PATCHING

- A. Contractor must lay out his work in advance to minimize unnecessary cutting and patching.
- B. Cutting and patching of holes in walls, partitions, ceilings and floors and building in of chases, recesses or other openings that may be required shall be done by Contractor requiring same. All such patching and chases shall be finished to match existing adjacent finishes. Provide all new acoustic tile ceilings in areas where such ceilings are disturbed.
- C. Drilling and patching for expansion bolts, hangers, and other supports shall be done by Contractor requiring same, subject to review by Architect.

- D. Pavements, sidewalks, roads and curbs, planted areas, fences and all other site structures shall be cut, patched, repaired and/or replaced as required to permit installation of work of various trades and such cutting, patching, repairing and replacing shall be responsibility of, and paid for by, Contractor under Section of Specifications for trade requiring work. Work shall be done by Contractor normally employed for such work at expense of Contractor requiring same.
- E. Each Contractor shall bear expense of all cutting, patching, repairing or replacing of work of other trades required because of his negligence or tardiness or because of any damage caused by him.

1.15 USE OF PREMISES

- A. Each Contractor shall perform all work necessary to deliver, store, and protect his material and equipment and shall provide a locker for safe and orderly storing of materials and tools. Location of such locker shall be with approval of Architect. Contractor shall change location thereof when so directed by Architect.
- B. The Contractor shall confine his apparatus, storage of materials and construction operations to the limits indicated by ordinances or permits or as may be directed by the Architect. He/she shall not unreasonably encumber the premises with materials.
- C. In the utilization of ground area, the protection of pavement, curbs, walks, structures, and other permanent improvements shall be installed and maintained.
- D. In storing materials within any structure, or when using structure as a shop, the Contractor shall consult with the Architect and Owner and shall restrict storage to spaces designated for such purposes. The Contractor will be held responsible for repairs, patching or cleaning arising from such use.
- E. Ground storage shall be similarly restricted.
- F. The Contractor shall not trespass or enter upon areas that are noted as being restricted.
- G. Plumbing fixtures shall not be used for emptying water from buckets, pails or other containers. Notwithstanding any approvals or instructions which must be obtained by the Contractor from the Owner in connection with use of premises, the responsibility for the safe working conditions at the site shall be the Contractor's and the or Owner shall not be deemed to have any responsibility or liability in connection therewith.

1.16 CLEANING

- A. Each Contractor shall, while engaged in work, maintain everything used in conjunction therewith in an orderly and clean condition and shall periodically during progress of work, or when directed by Architect, clean up and remove from building rubbish accumulated from his work.
- B. Work areas shall be cleaned on a daily basis. Areas occupied by Owner shall be kept clean at all times.

- C. Before reporting for final inspection, preceding acceptance by Architect, Contractor shall thoroughly clean fixtures, and apparatus of dust, stains, grease, oil, etc., and touch up with enamel or paint any scratched or marred surfaces. Finish of all trim and equipment shall be in perfect condition.

1.17 MANUFACTURER'S REPRESENTATIVE

- A. Each Trade Contractor shall provide, at appropriate time or as directed by Architect, the services of a competent factory-trained Architect of particular manufacturer of equipment or item involved so as to inspect, adjust, and place in proper operating condition any and all items of manufacturer. No additional compensation will be allowed Contractor for such services.

1.18 SUPERVISION AND LAYOUT

- A. Contractor shall have a competent English speaking foreman in charge of his respective work for duration of Contract. Dealings at site will be made with this person only.
- B. Contractor shall not employ on job unfit persons or anyone not skilled in work assigned to him, nor anyone considered detrimental to best interests of job.
- C. Each Contractor to supervise their work, lay out their work and take necessary measuring.
- D. All work shall be executed at and from as many different points, at such times and with such force as to meet completion schedules and/or as may be deemed necessary by Architect.

1.19 MATERIALS AND WORKMANSHIP - GENERAL REQUIREMENTS

- A. Guarantees of Performance: Contractor shall be held to have carefully examined and checked Drawings and Specifications before acceptance of Contract, starting any work, or purchasing any materials. Contractor shall inform Engineer of any changes or additions necessary to make possible fulfillment of any guarantees called for by this Specification, failing which, he shall be deemed to have accepted such guarantees and be bound thereby.
- B. Wherever hereinafter guarantees of durability, operating capacity, proper functioning or like are called for, or whenever it is specified that manufacturer shall furnish detail drawings, test certificates or performance curves, supervise installation of his apparatus, test or adjust it after installation, keep it in repair for a stated period, or render other similar services, Contractor will be held responsible for thorough performance or specific services under actual conditions of installation.
- C. Same shall apply in cases where special adjustment or other services are necessary to insure proper and efficient functioning of apparatus, even though not specifically called for. It is intended that entire plant be ready for satisfactory operation, and Contractor is hereby made responsible for this result.
- D. In every case where Contractor's own employees cannot adequately perform above described services, he shall stipulate such performance in his Contract with subcontractors, manufacturers, etc., or else subsequently pay them any additional fees required therefor so that a satisfactory and ready plant will be secured without additional cost to Owner.

1.20 ABBREVIATIONS

- A. The following abbreviations shall apply:
- HC - Heating (HVAC) Contractor
 - EC - Electrical Subcontractor
 - GC - Contractor for General Construction

1.21 JURISDICTIONAL DISPUTES

- A. Contractor shall assume responsibility for resolving jurisdictional disputes and resolving all claims arising from factory vs. field installation, etc.
- B. Wherever factory mounting, piping or wiring of controls and accessories, etc., are called for, Contractor shall ascertain at time of Bid that all work is in accord with local jurisdiction and shall allow for all costs to comply with. Extras arising out of jurisdictional disputes will not be permitted.

1.22 FOUNDATIONS AND SUPPORTS

- A. All piers, supports, shelving, foundations, anchor bolts, hangers, auxiliary steel, etc., unless specified under other Sections, required by Mechanical or Electrical Contractors for support or hanging of their equipment shall be provided by Contractor requiring same. All such work shall be done by Contractor requiring same. All such work shall be done in a manner approved by Architect.
- B. The anchoring of all equipment to the structure shall comply with all applicable requirements of the local governing codes.
- C. Support and fastening of all mechanical and electrical equipment shall be by the Trade Contractors. All equipment hung from overhead construction shall have weight of equipment distributed by use of structural iron supports, as necessary and approved, substantially fastened to structural support system. any wall-mounted equipment, which cannot be supported from architectural or structural materials shall have its own independent support system furnished by the Contractor. Proposed installation method shall be reviewed by the Architect.

1.23 ESCUTCHEONS

- A. Contractor shall provide escutcheons on pipes wherever they pass through floors, ceilings, walls or partitions.
- B. Escutcheons for pipes passing through outside walls shall be Ritter Pattern and Casting Company No. 1 solid, cast brass, flat type, secured to pipe with a set screw.
- C. Escutcheons for pipes passing through floors shall be Ritter Pattern and Casting Company No. 3A split-hinged, cast brass chromium plated type.
- D. Piping passing through exterior walls, floors below grade, etc., shall be made watertight with caulking compound and pipe sleeves with wall collar located at the center of the wall

extending 8" all around the pipe. Collar to be 1/8" thick steel welded to sleeve. Provide link seals, install per manufacturers guidelines.

1.24 PAINTING

- A. Painting and touching up shall be responsibility of Contractor installing equipment and/or materials.
- B. Galvanized and Copper Pipe: Uncovered piping shall be cleaned and left unpainted.
- C. Materials not Accessible: Hangers, metal supports, pipe, conduit and miscellaneous equipment, except copper and galvanized, which is above hung ceilings, in chases or areas not accessible when job is completed shall be given a prime coat of paint to prevent rusting or corroding of material.
- D. Exposed Material: Hangers, metal supports, pipe and conduit air handling units, tanks, electric fixture stems and canopies, and all material with exposed metal surfaces shall be finished as described above with prime and final coats of paint. Equipment which has factory enamel finished surfaces which has been slightly scratched or chipped shall be cleaned and at discretion of Engineer shall be touched up with factory paint. Equipment which is more than slightly rusted, scratched or chipped shall at discretion of Engineer be repainted in its entirety with a factory finish.
- E. All underground ductwork, piping and conduits shall be given two (2) coats of asphaltum.
- F. Finish painting of patched and damaged architectural finishes: provide all required preparation of surfaces, priming and finish painting of all patched or damaged areas to match existing adjacent finishes in color, texture and quality of paint.

1.25 EQUIPMENT START-UP AND TESTING

- A. Each Contractor shall furnish services of qualified men thoroughly familiar with job and installed work to operate and make adjustments so that equipment and work furnished under this Contract operates as required.
- B. Contractor shall consult Engineers in their offices during progress of job or in field during field inspections by Engineers regarding changes necessitated by job conditions, explanations of functions of equipment, controls, balancing, operations, etc.
- C. Contractor shall instruct Owner's operating personnel during start up and separate operating tests of each major item of equipment including pumps, boilers, burner, chillers, compressors, fire alarm, etc. During operating tests, Contractor shall prove operation of each item of equipment to satisfaction of Architect.
- D. At least seven (7) days notice of equipment start-up and operating tests shall be given to Architect. See technical sections of these specifications for additional field tests, factory tests and certifications required.

1.26 INSTRUCTIONS AND LITERATURE

- A. Contractor is to thoroughly instruct building custodian or person/persons designated by Owner in proper care and operation of work furnished and installed by him. Contractor shall prepare for use by Owner a detailed brochure of instructions in non-technical terms describing maintenance and operation of all apparatus, valves, controls, switches, fixtures, etc., furnished and installed by him. Two (2) preliminary copies must be submitted for checking and approval, after which four (4) bound copies of corrected material shall be delivered to Architect for turning over to Owner. Brochures shall contain copies of all finally corrected shop drawings of all equipment.
- B. At completion of instruction period, when Contractor and Owner are satisfied of Owner's knowledge to operate equipment, Contractor shall obtain in writing Owner's acceptance of instructions.
- C. See technical sections for additional requirements.

1.27 RECORD DRAWINGS

- A. Contractor shall prepare and maintain a set of drawings on which a current record of any changes made so that at completion of work a complete record will be shown thereon of actual installation. At completion of work these changes recorded shall be entered on to the electronic file for the drawings and shall be turned over to Owner, certified and notarized to be complete and accurate. Owner shall be provided one USB thumb drive copy, and two (2) sets of prints. All electronic drawing files shall be prepared using the latest AutoCAD release.

1.28 SHOP DRAWINGS AND SUBMITTALS

- A. See individual Sections for items requiring submission of shop drawings.
- B. Shop drawings and submittals shall be submitted digitally.
- C. Transmittal shall clearly state project name, item or material being submitted.
- D. The name of the manufacturer, model, accessories, size, etc. shall be clearly noted.
- E. Contractor shall review shop drawings prior to submission and all shop drawings shall be stamped by the Contractor his satisfactory review of same. Any deviations or changes to Contract Documents shall be clearly noted.
- F. Review of shop drawings by the Architect/Engineer shall not relieve the Contractor of the responsibility of furnishing materials in accordance with the Contract Documents.
- G. Contractor shall be responsible for quantities, physical sizes, electrical characteristics, etc. Any additional costs incurred due to the substitution of equipment (e.g. electrical, structural, etc.) shall be borne by the Contractor.

1.29 GUARANTEE AND SERVICE

- A. Guarantee and service the entire installation for a period of one year from the date of substantial completion.

- B. The final acceptance will be made after Contractor has adjusted his equipment, balanced the various systems, demonstrated that it fulfills the requirement of the drawings and specifications, and has furnished all required certificates of inspection, drawings, instructions and approvals.
- C. Contractor shall, during the period of the guarantee, replace or repair at not cost to the Owner any piece of equipment and/or materials which is found to be defective. The replacement or repair shall be performed the same day of notification in an emergency fashion when notified by the Owner or authorized representative. Contractor shall also repair damage to surrounding work caused by the failure, repair or replacement of defective equipment.
- D. During guarantee period, Contractor shall provide at no additional cost to the Owner, full service and maintenance for all equipment and systems, including all necessary inspections, servicing, lubrication, adjustments, replacements and cleaning necessary to maintain equipment and systems in top working efficiency. Included shall be a minimum of four (4) scheduled service visits for routine and preventive maintenance. Terms of service contract shall be submitted for review.
- E. Response time for emergency service shall be four (4) hours during business hours and six (6) hours on nights, weekends or holidays, and two (2) days for routine servicing.
- F. Refrigeration compressors shall have a factory guarantee including parts and labor for a minimum of five (5) year's total. Certificates shall be turned over to the Owner.
- G. Refer to technical paragraphs for additional guarantee and servicing requirements for specific equipment and systems.

END OF SECTION 235000

APPENDIX A

BID FORMS

Contract TA-24-02

**AFFIDAVIT OF PAYMENT TO SUBCONTRACTORS
AND/OR MATERIAL VENDORS**

New York State law requires that the prime contractor to pay, within 7 calendar days of the receipt of any payment by the public owner, each of its subcontractors and/or material vendors, the proceeds from the payment representing the value of work performed and/or materials furnished by the subcontractor and/or materials vendor. This Affidavit must be completed, notarized and included in all of your requisitions for payment.

PROJECT: Town of Mamaroneck – Upgrade of HVAC Systems at Hommocks Park Ice Rink, Contract TA-24-02

I, _____, acting on behalf of
(Name of Person)

(Person, Company, Corporation, Firm or Organization)

Of which I am _____, submitting a bid request for proposal
(Title of Person)

for the abovementioned project certify and affirm that

(Person, Company, Corporation, Firm or Organization)

has paid all money due to all subcontractors and/or material vendors for work incorporated into the abovementioned project up to this date. This affidavit certifies only payment for work completed and does not include work items for additional outstanding work on contract or disputed work. False statements made herein may be subject to any criminal prosecution and disbarment from bidding future Town projects.

Name of Company or Firm

Signature and Title of Official Making Affidavit

Subscribed and sworn to before me

this _____ day of _____, 20_____.

(Notary Public)

My commission expires _____, 20_____.

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That We, _____ (hereinafter called the Principal) as Principal and the _____, a _____ Corporation with an office and place of business for the State of New York at _____, New York, (hereinafter called the Surety) as Surety, are held and firmly bound unto the

(hereinafter called the Obligee) as Obligee in the sum of _____ (\$ _____) DOLLARS, lawful money of the United States of America, for the payment whereof the Principal and Surety bind themselves, their successors and assigns, jointly and severally, firmly by these presents.
Signed, sealed and dated this _____ day of _____, 20 ____.

WHEREAS, the Principal heretofore entered into a written contract with the Obligee for

WHEREAS, said Contract provides that the Principal shall guarantee _____

NOW, THEREFORE, the condition of this obligation is such, that if the above Principal shall indemnify the Obligee against loss by reason of his failure to make good at his own expense any defects or deficiencies in materials or workmanship which may appear in the work under said contract with the period of two (2) years from the date of acceptance of the work, then this obligation shall be void; otherwise to remain in full force and effect.

Principal

By: _____

By: _____

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____ 20 ____ before me personally appeared the within named _____ to me known, and known to me to be _____, the individual described in and who executed the within bond, and _____ acknowledged to me that he _____ executed the same.

Notary Public

GENERAL RELEASE

(TO-BE SUBMITTED WITH REQUISITION FOR FINAL PAYMENT)

KNOW ALL MEN BY THESE PRESENTS, that _____
(Contractor)

for and in consideration of the sum of _____
lawful money of the United States of America, to it in hand paid by:

(Owner/Contracting Agency)

have remised, released, quit-claimed, and forever discharged, and by these presents do for its successors and assigns remise, release, quit-claim, and forever discharge the said:

(Owner/Contracting Agency)

and its successors and assigns and administrators, of and from and all manner of action and actions, caused and causes of action, suits, debts, dues, sum and sums of money, accounts, reckonings, bonds, bills, specialties, covenants, contracts, controversies, agreements, promises, variances, trespasses, damages, judgments, patents, extents, executions, claims and demands whatsoever in law and equity which against the said:

(Owner/Contracting Agency)

now have or which heirs, executors, or administrator hereafter can, shall, or may have, for upon or by reason of any matter, cause or thing whatsoever, from the beginning of the world to the day of the date of these presents rising out of the construction, in accordance with contract entered into between parties hereto, dated

two thousand and _____, any admittance or supplements thereto.

IN WITNESS WHEREOF, the undersigned corporation has caused this agreement to be signed by its _____ and its corporate seal to be hereto affixed and duly attested by

its _____

this _____ day of _____, 20__.

ATTEST:

PRINCIPAL:

CONTRACT 24-02
UPGRADES OF HVAC SYSTEMS AT HOMMOCKS PARK ICE RINK

SUBMITTALS:

All submittals prepared by or for the Contractor, shall be thoroughly checked by the Contractor for Accuracy and conformance to the intent of the Contract Documents before being submitted to the Town Engineer and shall bear the Contractor's signature certifying that they have been so checked. Before submitting them to the Town Engineer, all submittals shall be properly labeled and consecutively numbered. **Contractor shall attach this completed sheet to all submittals.** The Contractor shall note, in writing, if there are any deviations from the Contract drawings and specifications.

CONTRACT NUMBER: TA-24-02 DATE: _____

PROJECT: Upgrade of HVAC Systems at Hommocks Park Ice Rink

MATERIALS REFERENCED: _____

MANUFACTURER: _____

ITEM/MODEL NUMBER: _____

This document has been reviewed, coordinated and checked for accuracy of content and for compliance with the Contract Documents. The information contained herein has been coordinated with all other Contract Work.

CONTRACTOR: _____

PRINTED NAME: _____ SIGNATURE: _____

TOWN OF MAMARONECK REVIEW - DO NOT WRITE BELOW THIS LINE

NO EXCEPTION TAKEN

MAKE CORRECTIONS NOTE

REJECTED

REVISE AND RESUBMIT

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work.

DATE: _____ BY: _____

Town Engineer

TOWN OF MAMARONECK
WESTCHESTER COUNTY, NEW YORK

CONTRACT 24-02
UPGRADES OF HVAC SYSTEMS AT HOMMOCKS PARK ICE RINK

APPENDIX B

Bid Proposal Form
Articles of Agreement
Prequalification Forms

CONTRACT 24-02
UPGRADES OF HVAC SYSTEMS AT HOMMOCKS PARK ICE RINK

To the Town Board of the Town of Mamaroneck, New York:

The undersigned, as Bidder, declares that the only persons interested in this proposal, or the Contract proposed to be made, as principals, are as stated; that he has carefully examined the Information for Bidders and the Specifications pertaining thereto; and he proposes and agrees, if this Proposal is accepted that he will enter into a Contract with the Town of Mamaroneck to furnish all the necessary work, labor, materials, tools, machinery, equipment and preparation to make the work complete as called for in the Specifications in the manner and with the time prescribed for the following prices. For furnishing and delivering free of Federal and State Taxes

BID PROPOSAL – UPGRADES OF HVAC SYSTEMS AT HOMMOCKS PARK ICE RINK

Lump Sum

HOMMOCKS PARK ICE RINK HVAC UPGRADES

\$ _____

Amount in Words: _____

ADD ALTERNATE

Lump Sum

Item Alternate No. 1: ADD SCOPE OF WORK FOR:
Integration of new HVAC controls with existing BMS.

\$ _____

Extended Addition in Words: _____

CONTRACT 24-02
UPGRADES OF HVAC SYSTEMS AT HOMMOCKS PARK ICE RINK

BID SUMMARY

TOTAL AMOUNT OF BID:

\$ _____

TOTAL AMOUNT OF BID IN WORDS:

**TOTAL EXTENDED AMOUNT OF ALTERNATE BID FOR BASE BID
AND ADD ALTERNATE NO. 1:**

\$ _____

TOTAL AMOUNT OF ALTERNATE BID IN WORDS:

BIDDER'S FIRM NAME: _____

ADDRESS OF FIRM: _____

SIGNED: _____ DATE: _____

PRINTED: _____ TELEPHONE #: _____

TITLE: _____ FAX #: _____

E-MAIL ADDRESS: _____

CONTRACT 24-02
UPGRADES OF HVAC SYSTEMS AT HOMMOCKS PARK ICE RINK
NON COLLUSION AFFIDAVIT

This Affidavit must be completed, notarized and included in your bid proposal submission. Failure to do so will result in the rejection of your bid proposal. A separate Affidavit must be submitted by each principal of any joint venture.

PROJECT: Town of Mamaroneck – Upgrades of HVAC Systems at Hommocks Park Ice Rink – TA-24-02

I, _____, acting on behalf of
(Name of Person)

(Person, Company, Corporation, Firm or Organization)

Of which I am _____, submitting a bid request for proposal
(Title of Person)

for the abovementioned project certify and affirm that

(Person, Company, Corporation, Firm or Organization)

has neither directly or indirectly entered into any agreements, conferred with any other vendor(s) or participated in any “collusion” or otherwise taken any action to compromise the process of open competitive bidding in connection with the aforementioned project. False statements made herein may be subject to any criminal prosecution and disbarment from bidding future Town projects.

Name of Company or Firm

Signature and Title of Official Making Affidavit

Subscribed and sworn to before me

this _____ day of _____, 20_____.

(Notary Public)

My commission expires _____, 20_____.

**TOWN OF MAMARONECK
WESTCHESTER COUNTY,
NEW YORK**

ARTICLES OF AGREEMENT

_____ doing business
(Name of Bidder)
as _____
(Name of Company)
of _____
(Address)

hereby agrees to furnish material to the Town of Mamaroneck, Westchester County, New York in accordance with the Proposal, Information for Bidders, and Specifications which are attached to these Articles of Agreement and hereby made a part of this contract, (all of which Contract Documents the Contractor acknowledges he has read and examined) and to accept in full payment for the material listed on the Form of Proposal, accepted by the Town of Mamaroneck, at the unit prices submitted on the bid proposal, a copy of which is annexed and made a part hereof and for the proposed total contract bid value of___.

The Town of Mamaroneck, Westchester County, New York agrees to make payment in full for material accepted, after delivery within the time period specified, and satisfactory demonstration to appropriate officials and upon the Contractor's providing the standard manufacturer's warranty against defective materials and workmanship for a period of not less than one year after date of delivery.

Upon the failure of the Contractor to perform in any manner, in accordance with the Proposals, Information for Bidders and Specifications, the Town has the right to cancel this Contract and in such event, the bid security shall be considered as liquidated damages and shall be forfeited to the Town and Villages.

IN WITNESS WHEREOF, the Town of Mamaroneck, has caused this Contract to be executed by its duly authorized officers who, however, incur no possible liability by reason of the execution thereof or of anything herein contained, and has hereunto set his hand and seal this _____ day of _____.

CONTRACTOR

TOWN OF MAMARONECK

By: _____
Contractor

By: _____
Town Administrator

ATTEST: _____
Witness

ATTEST: _____
Town Clerk

TOWN OF MAMARONECK
740 WEST BOSTON POST ROAD
MAMARONECK, NY 10543

APPLICATION FOR PREQUALIFICATION

1. Name of Contractor: _____

Business Address: _____

City, State and Zip Code

2. Federal ID Number: _____ Telephone #: _____

Fax #: _____

3. Please indicate all classes of work for which your company is experienced. For the top six categories, break down in percentage the amount of work performed for each class. Do not include any work subcontracted out to another company.

Bridge Construction/Rehabilitation	(%)	Landscaping & Beautification	(%)
Building Construction/Renovation	(%)	Lighting, Electrical & Traffic	(%)
Catch Basin Construction/Cleaning	(%)	Materials Processing	(%)
Crack Sealing/Microsurfacing	(%)	Mowing & Spraying	(%)
Demolition	(%)	Pavement Markings	(%)
Drilling & Soil Boring	(%)	Pavement Reclamation	(%)
Excavation	(%)	Pavement Resurfacing	(%)
Guard Rail & Fencing	(%)	Sanitary Sewer Construction	(%)
Hazardous Waste Remediation	(%)	Sidewalk & Curb	(%)
Highway Construction	(%)	Storm Sewer Construction	(%)
Highway Maintenance	(%)	Underground Tank Removal	(%)
Highway Sweeping	(%)	Utilities & Street Openings	(%)

4. If a Corporation, provide the following:

State of incorporation: _____

President: _____ Number of Years: _____

Treasurer: _____ Number of Years: _____

Secretary: _____ Number of Years: _____

5. If a Partnership, provide the following:

Name of Partner: _____ Number of Years: _____

Residence: _____

Name of Partner: _____ Number of Years: _____

Residence: _____

Name of Partner: _____ Number of Years: _____

Residence: _____

6. If a Joint Venture, provide the following for each company:

Name of Company: _____

Address: _____

Name of Company: _____

Address: _____

Name of Company: _____

Address: _____

For Prequalification as a Joint Venture, each company must be prequalified with Town of Mamaroneck and the additional items must be submitted:

- A. A notarized letter signed by an officer of each company authorizing one individual to sign all Bid Documents, Request for Proposals, Contracts, Payment Requisitions and any other related documents while conducting work for the Town.
- B. A certified copy of Power of Attorney from each partnering company in the Joint Venture.

7. Other form of business organization: _____

8. Provide all of the following regarding Surety & Bonding:

Name of Bonding Company: _____

Address: _____

Name of Contact Agent: _____

9. Attach to this Application, a letter from the Surety Company stating the Contractor's Aggregate Bonding Capacity and Single Contract Limit.

10. Largest Performance and Payment Bond amount ever furnished by the Contractor to a Municipality, Agency or Private Owner.

BOND AMOUNT: _____

NAME OF PROJECT: _____

WORK LOCATION: _____

DESCRIPTION OF WORK: _____

OWNER: _____

OWNER'S REP.: _____ TELEPHONE #: _____

ARCH / ENG'R: _____ TELEPHONE #: _____

CONTRACT AMOUNT: _____

START DATE: _____ COMP. DATE: _____

11. Bank Reference _____

Contact Agent: _____ Telephone #: _____

Credit Limit Available: _____

Will you, upon request of the Town of Mamaroneck, fill out a detailed financial statement and furnish any other information requested by the Town regarding the financial history of your firm?

YES / NO

How many years have you been conducting business with the above-mentioned bank?

12. List three or more of your company's recent projects similar for each class of work checked in item number three (3) above. If this Application is being filed as part of a Bid Requirement for the Town of Mamaroneck, the projects listed below should be similar in scope of work and financial size to the Bid Proposal. (Attach additional sheets or photos if necessary.)

1. NAME OF PROJECT: _____
WORK LOCATION: _____
DESCRIPTION OF WORK: _____
OWNER: _____
OWNER'S REP.: _____ TELEPHONE #: _____
ARCH. /ENG'R: _____ TELEPHONE #: _____
CONTRACT AMOUNT: _____
START DATE: _____ COMP. DATE: _____

2. NAME OF PROJECT: _____
WORK LOCATION: _____
DESCRIPTION OF WORK: _____
OWNER: _____
OWNER'S REP.: _____ TELEPHONE #: _____
ARCH. /ENG'R: _____ TELEPHONE #: _____
CONTRACT AMOUNT: _____
START DATE: _____ COMP. DATE: _____

3. NAME OF PROJECT: _____
WORK LOCATION: _____
DESCRIPTION OF WORK: _____
OWNER: _____
OWNER'S REP.: _____ TELEPHONE #: _____
ARCH. /ENG'R: _____ TELEPHONE #: _____
CONTRACT AMOUNT: _____
START DATE: _____ COMP. DATE: _____

13. List below any projects for which your firm is presently under contract. In addition, list any projects for which your firm has submitted a Bid Proposal (or estimate) or any projects for which your firm is considering submitting a Bid Proposal (or estimate) within the next thirty (30) days. Also include any work for which you are a subcontractor. (Attach additional sheets or photos if necessary.)

1. NAME OF PROJECT: _____
WORK LOCATION: _____
DESCRIPTION OF WORK: _____
OWNER: _____
OWNER'S REP.: _____ TELEPHONE #: _____
ARCH. /ENG'R: _____ TELEPHONE #: _____
CONTRACT AMOUNT: _____
START DATE: _____ COMP. DATE: _____

2. NAME OF PROJECT: _____
WORK LOCATION: _____
DESCRIPTION OF WORK: _____
OWNER: _____
OWNER'S REP.: _____ TELEPHONE #: _____
ARCH. /ENG'R: _____ TELEPHONE #: _____
CONTRACT AMOUNT: _____
START DATE: _____ COMP. DATE: _____

3. NAME OF PROJECT: _____
WORK LOCATION: _____
DESCRIPTION OF WORK: _____
OWNER: _____
OWNER'S REP.: _____ TELEPHONE #: _____
ARCH. /ENG'R: _____ TELEPHONE #: _____
CONTRACT AMOUNT: _____
START DATE: _____ COMP. DATE: _____

14. Attach to this application any additional information regarding key personnel employed or associated with your firm such as resumes, letters of recommendation, a statement from a certified public accountant or any other information demonstrative to the firm's experience, employee skills, financial capacity and managerial abilities.

List below the names of all personnel & titles for which attached supporting documents are submitted:

_____	_____
_____	_____
_____	_____

15. Has your firm or any key party employed by your firm failed to complete any work awarded or has any municipality/owner ever found your firm or key party thereof to be in default?

YES / NO

If yes, provide the following:

NAME OF PROJECT: _____

WORK LOCATION: _____

DESCRIPTION OF WORK: _____

OWNER: _____

OWNER'S REP.: _____ TELEPHONE #: _____

ARCH. /ENG'R: _____ TELEPHONE #: _____

CONTRACT AMOUNT: _____

START DATE: _____ COMP. DATE: _____

Reasons for failure to complete work or contract default:

(Attach additional sheets if necessary)

16. Is the undersigned able to furnish labor that can work in harmony with any other elements of labor, which may be working in conjunction with the Town's projects or within any project work limits?

YES / NO If no, attach a full explanation.

17. For the past five years, list below any of the following:
- A. Any litigation in which your firm, or any partner or employee was a defendant.
 - B. Any civil, criminal or administrative proceedings involving public contracts, safety or environmental laws or regulations including those of OSHA, NYSDOT, NYSDEC, EPA, DEP or any other similar agency of any state.
 - C. Any civil, criminal or administrative proceedings involving payment of minimum wage, prevailing wages, affirmative action or equal opportunity for any municipality, county or state which you have performed work.
 - D. Any deaths or injuries that occurred in connection with any project your firm or employee of your firm has undertaken.
 - E. Any municipal code violations or citations for traffic law infractions for which your firm or any party employed by your firm has received in connection with the course of work.
 - F. Any projects for which there have been liens placed upon. State all relevant information included dollar amount of lien and all parties associated with the lien.

(Attach additional sheets if necessary)

BUSINESS REFERENCE SHEET

Name of Contractor: _____

Business Address: _____

(City, State and Zip Code)

Provide below the following types of business references: (1) Concrete Supplier, (1) Stone Quarry Supplier, (1) Traffic Signal Equipment Supplier, and (1) Asphalt Concrete Supplier.

1. Reference Name: _____ Contact Person: _____

Address: _____ Phone #: _____

Description and dates of commodities and services provided w/ project location: _____

2. Reference Name: _____ Contact Person: _____

Address: _____ Phone #: _____

Description and dates of commodities and services provided w/ project location: _____

3. Reference Name: _____ Contact Person: _____

Address: _____ Phone #: _____

Description and dates of commodities and services provided w/ project location: _____

4. Reference Name: _____ Contact Person: _____

Address: _____ Phone #: _____

Description and dates of commodities and services provided w/ project location: _____

PREQUALIFICATION FORM AFFIRMATION

The Town of Mamaroneck reserves the right to request at any time, additional information regarding the Applicant's experience, manpower, equipment, safety records, procedures, both financial and bonding capacity, completed projects, work currently under contract, and any information pertinent to the Applicant's skill, ability and integrity to perform work for the Town.

The undersigned, on behalf of the Applicant, hereby certifies that the foregoing information is true and complete. The undersigned further certifies that he or she is authorized to sign this affirmation on behalf of the Applicant.

Dated this _____ day of _____, 20_____.

(Name of Applicant/Bidder)

By _____

Title _____

State of _____ (County of _____)

_____ being duly sworn deposes

and says that he or she is _____ of _____

(Name of Organization)

and that the foregoing questions and all statements and information provided therein contained are true and correct.

Subscribed and sworn to before me

this _____ day of _____, 20_____.

(Notary Public)

My commission expires _____, 20_____.

APPENDIX-C

Town Contractor Insurance Requirements

Contract TA-24-02

Minimum Insurance Requirements for Town of Mamaroneck Contractors

Prior to commencement of any work under this Contract and until completion and final acceptance of the work, the Contractor/Provider shall, at its sole expense, maintain the following insurance on its own behalf, and furnish to the Town of Mamaroneck certificates of insurance evidencing same and reflecting the effective date of such coverage as follows:

The term "Contractor/Provider" as used in this indemnification agreement shall mean and include Subcontractors of every tier.

- 1) Worker's Compensation and Employers Liability Policy, covering operations in New York State. Where applicable, U.S. Longshore and Harbor Workers Compensation Act Endorsement and Maritime Coverage Endorsement shall be attached to the policy. Evidence must be provided on a C-105.2. Waiver of Subrogation to be included.
- 2) N.Y.S. Disability, covering all employees. DB 120.1 must be provided.
- 3) Commercial General Liability Policy, with limits of no less than \$1,000,000 Each Occurrence/\$2,000,000 Aggregate limits for Bodily Injury and Property Damage, and shall include coverage for:
 - A. Premises & Operations
 - B. Products/Completed Operations;
 - C. Independent Contractors;
 - D. Personal & Advertising Injury
 - E. Blanket Contractual Liability
 - F. XCU
 - G. Town of Mamaroneck and their assigns, officers, employees, representatives and agents should be named as an "Additional Insured" on the policy using ISO Additional Insured Endorsement CG 20 10 11/85 or an endorsement providing equivalent or broader coverage and shall apply on a primary and non- contributory basis, including any self-insured retentions. The Certificate of Insurance should show this applies to the General Liability coverage on the certificate, and Additional Insured Endorsement shall be attached.
 - H. To the extent permitted by New York law, the Contractor/Provider waives all rights of subrogation or similar rights against Town of Mamaroneck, assigns, officers, employees, representatives and agents.
 - I. General Aggregate shall apply separately to each project (must be on an occurrence form).
 - J. Cross Liability coverage (Commercial General Liability and Business Automobile Liability policies only).
 - K. General Liability policy must NOT contain any coverage exclusions or restrictions related to the scope of work being performed as well as injuries to employees, subcontractors, or employees of subcontractors (i.e. labor law).

- 4) Comprehensive Automobile Policy, with limits no less than \$1,000,000 Bodily Injury and Property Damage liability including coverage for owned, non-owned, and hired private passenger and commercial vehicles.
 - A. Town of Mamaroneck and their assigns, officers, employees, representatives and agents should be named as an “Additional Insured” on the policy. The Certificate of Insurance should show this applies to the Automobile Liability coverage on the certificate, and Additional Insured Endorsement shall be attached.
 - B. To the extent permitted by New York law, the Contractor/Provider waives all rights of subrogation or similar rights against the Town of Mamaroneck, assigns, officers, employees, representatives and agents.

- 5) Umbrella Liability, with limits of no less than \$5,000,000 Each Occurrence/\$5,000,000 Aggregate, including coverage for General Liability, Automobile, and Workers Compensation and Professional Liability (if applicable). Waiver of Subrogation to be included in favor of the Town of Mamaroneck. Coverage for the additional insured shall apply on a primary and non-contributory basis, including any self-insured retentions.

- 6) Professional Liability (if applicable), with limits no less than \$1,000,000. Per Claim / \$1,000,000 Aggregate. If a retroactive date is used, it must pre-date the inception of the contract. Town of Mamaroneck to be included as an additional insured on a primary, non-contributory basis and a waiver of subrogation needs to be included in favor of the Town of Mamaroneck.

- 7) Owners & Contractors Protective Liability Policy, with limits no less than \$1,000,000 Per Occurrence/\$2,000,000 Aggregate shall be taken out with the Town of Mamaroneck as the Named Insured, and maintained during the life of this contract which will protect the Town of Mamaroneck from claims for damages for personal injury, liability, accidental or wrongful death, as well as property damage which may arise from operations under this contract whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by either party.

- 8) Asbestos/Lead Abatement and Environmental Clean-Up, if applicable. Coverage for the removal of asbestos and/or lead and related pollution events, including coverage for third-party liability claims for bodily injury, property damage and clean-up costs.

\$1,000,000 per occurrence/\$2,000,000 aggregate including Products and Completed Operations. If a retroactive date is used, it must pre-date the inception of the contract. Town of Mamaroneck to be included as an additional insured on a primary, non- contributory basis and a waiver of subrogation needs to be included in favor of the Town of Mamaroneck.

- 9) Bid, Performance and Labor & Material Bonds, if required in the specifications, these bonds shall be provided by a New York State admitted Surety Company, in good standing.

- 10) Property Insurance, the Contractor shall cover materials being installed onsite, in transit, and/or at any other location.

- 11) Builders Risk, if applicable. To be written on a Completed Value Form written for the full insurable value on a Special Form basis.
- 12) Certificates shall provide that thirty (30) days written notice prior to cancellation or expiration be given to the Towner Engineer, Town of Mamaroneck, 740 West Boston Post Rad, Mamaroneck, New York 10543. Policies that lapse and/or expire during term of work shall be recertified and received by the Town of Mamaroneck no less than thirty (30) days prior to expiration or cancellation.

The Contractor/Provider shall furnish to the Town of Mamaroneck Certificates of Insurance as evidence of coverage prior to commencement of work and naming the Town of Mamaroneck as an Additional Insured **by endorsement**. The Contractor/Provider acknowledges that failure to obtain such insurance on behalf of the Town of Mamaroneck constitutes a material breach of contract and subjects it to liability for damages, indemnification and all other legal remedies available to the Town of Mamaroneck. The failure of the Town of Mamaroneck to object to the contents of the certificate or absence of same shall not be deemed a waiver of any and all rights held by the Town of Mamaroneck.

The cost of furnishing the above insurance shall be borne by the Contractor/Provider, there will be no direct payment for this work. Cost will be deemed to have been included in the price bid for all scheduled items.

All carriers listed in the certificates of insurance shall be A.M. Best Rated A VII or better and be licensed in the State of New York.

**Indemnification and Hold
Harmless Agreement**

To the fullest extent permitted by law, Contractor/Provider shall indemnify, hold harmless and defend the Town of Mamaroneck, and agents and employees of any of them from and against all claims, damages, losses or expenses including but not limited to attorney's fees arising out of or resulting from the performance of the agreement, provided any such claim, damage, loss or expense (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, including loss of use resulting there from, and (b) is caused in whole or in part by any act or omission or violation of statutory duty or regulation of the Contractor/Provider or anyone directly or indirectly employed by it or anyone for whose acts it may be liable pursuant to the performance of the agreement.

Notwithstanding the foregoing, Contractor/Provider's obligation to indemnify the Town of Mamaroneck, and agents and employees of any of them for any judgment, mediation or arbitration award shall exist to the extent caused in whole or in part by (a) negligent acts or omissions, or (b) violations of regulatory or statutory provisions of the New York State Labor Law, OSHA, or other governing rule or applicable law; by the Contractor/Provider anyone directly or indirectly employed by it or anyone for whose acts it may be liable in connection to such claim, damage, loss and expense. The obligation of the Contractor/Provider to indemnify any party under this paragraph shall not be limited in any manner by any limitation of the amount of insurance coverage or benefits including worker's compensation or other employee benefit acts provided by the Contractor/Provider.

Company Title/Name: _____

Name: _____ Signature: _____

Date: _____

Nature/Scope of Work Being Performed: _____

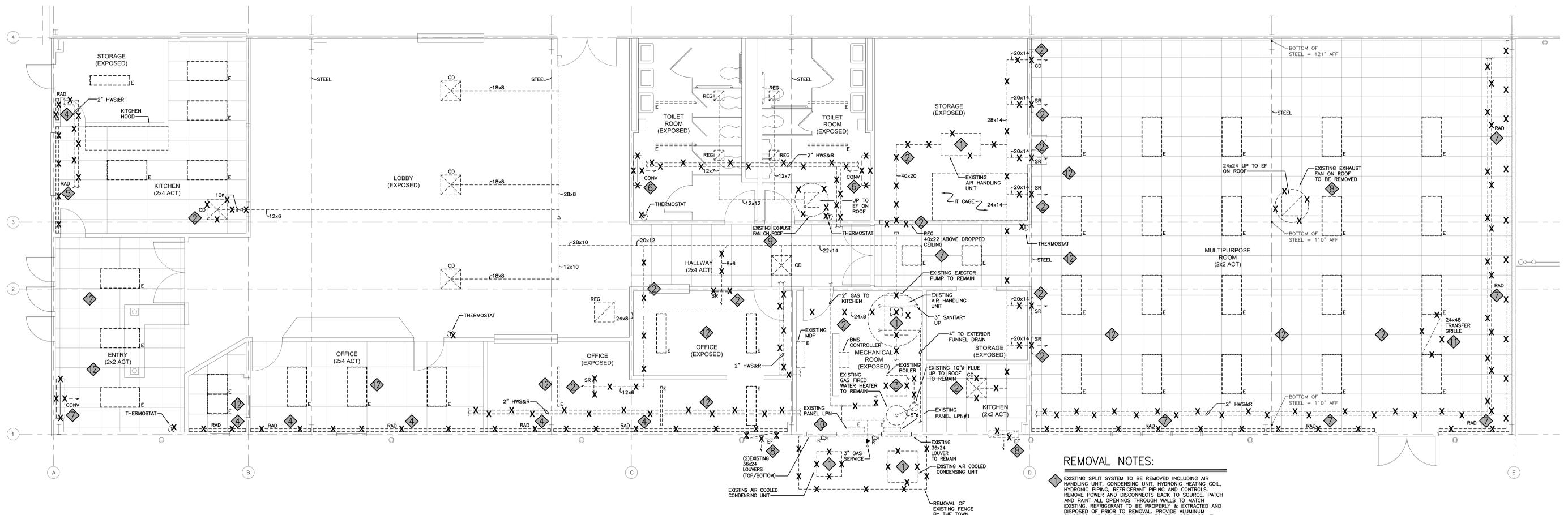
Please sign, date and return to:

Town of Mamaroneck
**Town Center – 740 West Boston Post
Road Mamaroneck, NY 10543**

APPENDIX-D

Contract Drawings

Contract TA-24-02



1 MECHANICAL PLANS – REMOVALS
ME-1 SCALE: 1/4" = 1'-0"

HVAC LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT		DUCT SMOKE DETECTOR
	RETURN/EXHAUST DUCT		THERMOSTAT
	EXISTING		THERMOSTAT FOR BASE BOARD RADIATION
	REMOVAL		THERMOSTAT FOR A/C UNIT
	NEW		THERMOSTAT FOR CABINET HEATER
	CONNECT TO EXISTING		DAMPER

ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPS	E.F.	EXHAUST FAN
A.C.	AIR CONDITIONING UNIT	EX.	EXISTING
A.C.C.U.	AIR COOLED CONDENSING UNIT	F.A.I.	FRESH AIR INTAKE
A.D.	ACCESS DOOR	FX	FLEXIBLE CONNECTION
AL	ALUMINUM	G. GND	GROUND
B.B.	BRANCH BOX	G.C.	GENERAL CONTRACTOR
B.B.H.	BASE BOARD HEATER	G.V.	GRAVITY VENT
B.F.F.	BELOW FINISHED FLOOR	G.V.I.	GRAVITY VENT INTAKE
B.G.	BELOW GRADE	H/X	HEAT EXCHANGER
B.S.	BELOW SLAB	L	REFRIGERANT LIQUID
C	CONDUIT	M.D.	MOTORIZED DAMPER
CB	CIRCUIT BREAKER	M.V.	MOTORIZED VALVE
C.D.	CEILING DIFFUSER	N.T.S.	NOT TO SCALE
C.F.M.	CUBIC FEET PER MINUTE	O.A.	OUTSIDE AIR
C.H.	CABINET HEATERS	P.C.	PLUMBING CONTRACTOR
CND.	CONDENSATE (COOLING)	P.S.I.	POUNDS PER SQUARE INCH
C.P.	CONDENSATE PUMP	R	REMOVE
C.U.	CONDENSING UNIT	R.A.	RETURN AIR
CU	COPPER	REG.	RETURN/EXHAUST REGISTER
DN	DOWN	S.A.	SUPPLY AIR
D.T.R.	DUAL TEMPERATURE RETURN	S.M.	SNOW MELT
D.T.S.	DUAL TEMPERATURE SUPPLY	S.R.	SUPPLY REGISTER
E	EXISTING	T	THERMOSTAT
E.A.	EXHAUST AIR	V.D.	VOLUME DAMPER
E.C.	ELECTRICAL CONTRACTOR	W.H.	WALL HEATER

ELECTRIC LEGEND	
SYMBOL	DESCRIPTION &/OR SPECIFICATION
	EXISTING
	REMOVE EXISTING
	NEW
	DISCONNECT SWITCH, TYPE AND SIZE AS INDICATED.
	120V, 20AMP RANITTE-WHILE-IN-USE GFCI RECEPTACLE WITH HINGED METAL COVER
	TOGGLE TYPE DISCONNECT SWITCH, SIZE AS INDICATED
	ELECTRICAL JUNCTION BOX
	WORK ITEM

GENERAL ELECTRICAL NOTE:

- EC SHALL TRACE CIRCUITRY FOR EQUIPMENT BEING REMOVED. REMOVE BACK TO SOURCE. MAINTAIN CIRCUITRY FOR EQUIPMENT TO REMAIN.

MECHANICAL WORK NOTES:

- CLEAN AND SEAL ALL EXISTING SUPPLY, RETURN AND EXHAUST DUCTWORK IN AREA OF WORK.
- PROVIDE NEW ACT TILES TO MATCH EXISTING IN AREAS OF REMOVAL WITH DROPPED CEILINGS.
- PATCH AND PAINT TO MATCH EXISTING IN AREAS OF REMOVAL WITH EXPOSED CEILINGS.
- HC TO SURVEY AND CONFIRM EXISTING DUCT SIZES AND LAYOUT PRIOR TO ANY REMOVAL.
- CONTRACTOR SHALL BE RESPONSIBLE TO FILE APPLICABLE BUILDING PERMITS FROM TOWN OF MAMARONECK. ALL PERMIT FEES TO BE WAIVED FOR PERMIT ISSUANCE.

CONSTRUCTION NOTES:

- ICE RINK FACILITY SHALL BE KEPT OPERATIONAL AT ALL TIMES. CONTRACTOR SHALL NOTIFY TOWN AT LEAST 48 HOURS PRIOR TO ANY TEMPORARY SHUTDOWN OF WATER OR ELECTRICAL SUPPLY WITHIN THE FACILITY.
- ICE RINK FACILITY SHALL BE RESPONSIBLE FOR REMOVAL AND STORING OF ALL EXISTING FURNITURE IN AREAS OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE DUST PARTITIONS AS NECESSARY TO ISOLATE INDOOR WORK AREAS DURING ALL DUST GENERATING CONSTRUCTION ACTIVITIES.
- CONTRACTORS SHALL BE RESPONSIBLE FOR DISPOSAL AND DAILY HOUSEKEEPING OF WORK AREAS AS PART OF SCOPE OF WORK.

REMOVAL NOTES:

- EXISTING SPLIT SYSTEM TO BE REMOVED INCLUDING AIR HANDLING UNIT, CONDENSING UNIT, HYDRONIC HEATING COIL, HYDRONIC PIPING, REFRIGERANT PIPING AND CONTROLS. REMOVE POWER AND DISCONNECTS BACK TO SOURCE. PATCH AND PAINT ALL OPENINGS THROUGH WALLS TO MATCH EXISTING. REFRIGERANT TO BE PROPERLY EXTRACTED AND DISPOSED OF PRIOR TO REMOVAL. PROVIDE ALUMINUM CLADDING AND BOARD INSULATION TO SEAL OPENINGS AT EXTERIOR WALL TO MATCH EXISTING.
- EXISTING DUCTWORK TO BE REMOVED INCLUDING ALL ASSOCIATED AIR OUTLETS, PATCH AND PAINT OPENINGS THROUGH WALLS TO MATCH EXISTING.
- EXISTING GAS FIRED HYDRONIC BOILER TO BE REMOVED INCLUDING ALL ASSOCIATED PIPING, CIRCULATORS, VALVES, TRIMS, VENTING, BREECHING, GAS BURNER, GAS PIPING, AIR SEPARATOR, EXPANSION TANK, COLD WATER TRIM AND CONTROLS. REMOVE POWER AND DISCONNECTS BACK TO SOURCE. CAP ALL PIPING BACK AT MAIN. PATCH AND PAINT ALL OPENINGS THROUGH WALLS TO MATCH EXISTING.
- EXISTING PERIMETER RADIATION TO BE REMOVED INCLUDING ALL ASSOCIATED PIPING, PIPE HANGERS, VALVES, TRIM AND CONTROLS. REMOVE POWER BACK TO SOURCE. PATCH AND PAINT ALL OPENINGS THROUGH WALLS TO MATCH EXISTING. PROVIDE 3/4" GYPSUM BOARD BEHIND BASEBOARD, PAINT AND PATCH AS REQUIRED TO MATCH EXISTING FINISH.
- EXISTING PERIMETER RADIATION TO BE REMOVED INCLUDING ALL ASSOCIATED PIPING, PIPE HANGERS, VALVES, TRIM AND CONTROLS. REMOVE POWER BACK TO SOURCE. PATCH AND PAINT ALL OPENINGS THROUGH WALLS TO MATCH EXISTING. PROVIDE SUBWAY TILES BEHIND BASEBOARD, PAINT AND PATCH AS REQUIRED TO MATCH EXISTING FINISH.
- EXISTING CONNECTOR TO BE REMOVED INCLUDING ALL ASSOCIATED PIPING, PIPE HANGERS, VALVES, TRIM AND CONTROLS. REMOVE POWER BACK TO SOURCE. PATCH AND PAINT ALL OPENINGS THROUGH WALLS TO MATCH EXISTING. PROVIDE VINYL PANELS AND MOLDING BEHIND CONNECTOR. PAINT AND PATCH AS REQUIRED TO MATCH EXISTING FINISH.
- EXISTING PERIMETER RADIATION AND CONNECTOR TO BE REMOVED INCLUDING ALL ASSOCIATED PIPING, PIPE HANGERS, VALVES, TRIM AND CONTROLS. REMOVE POWER BACK TO SOURCE. PATCH AND PAINT ALL OPENINGS THROUGH WALLS TO MATCH EXISTING. PROVIDE WAINSCOTING BEHIND BASEBOARD AND CONNECTOR. PAINT AND PATCH AS REQUIRED TO MATCH EXISTING FINISH.
- EXISTING EXHAUST FAN TO BE REMOVED INCLUDING ALL ASSOCIATED DUCTWORK AND CONTROLS. REMOVE POWER AND DISCONNECTS BACK TO SOURCE. EXISTING OPENINGS TO BE SAFE OFF AND INSULATED. INCLUDE 2" BOARD INSULATION. REMOVE POWER BACK TO SOURCE.
- EXISTING TOILET ROOM EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW 2'x4 ACT TILE.
- EXISTING COMBUSTION LOUVER AND MOTORIZED DAMPERS TO BE SAFE OFF AND INSULATED. INCLUDE 2" BOARD INSULATION. REMOVE POWER BACK TO SOURCE.
- EXISTING TRANSFER GRILLE TO BE REMOVED AND REPLACED WITH NEW 2'x4 ACT TILE.
- DISCONNECT, REMOVE, STORE AND REINSTALL LIGHT FIXTURES IN ROOMS INDICATED TO ACCOMMODATE DUCTWORK AND PIPING INSTALLATION.

**TOWN OF MAMARONECK
HOMMOCKS ICE RINK**

140 HOMMOCKS ROAD
LARCHMONT, NY 10538

HVAC UPGRADES



88 Purchase Street Tel: 914.967.9505
Rye, NY 10580 Fax: 914.967.2310
info@tietjenpe.com www.tietjenpe.com

Revisions

No.	Date	Comments
1	12.22.2023	ISSUED FOR BID

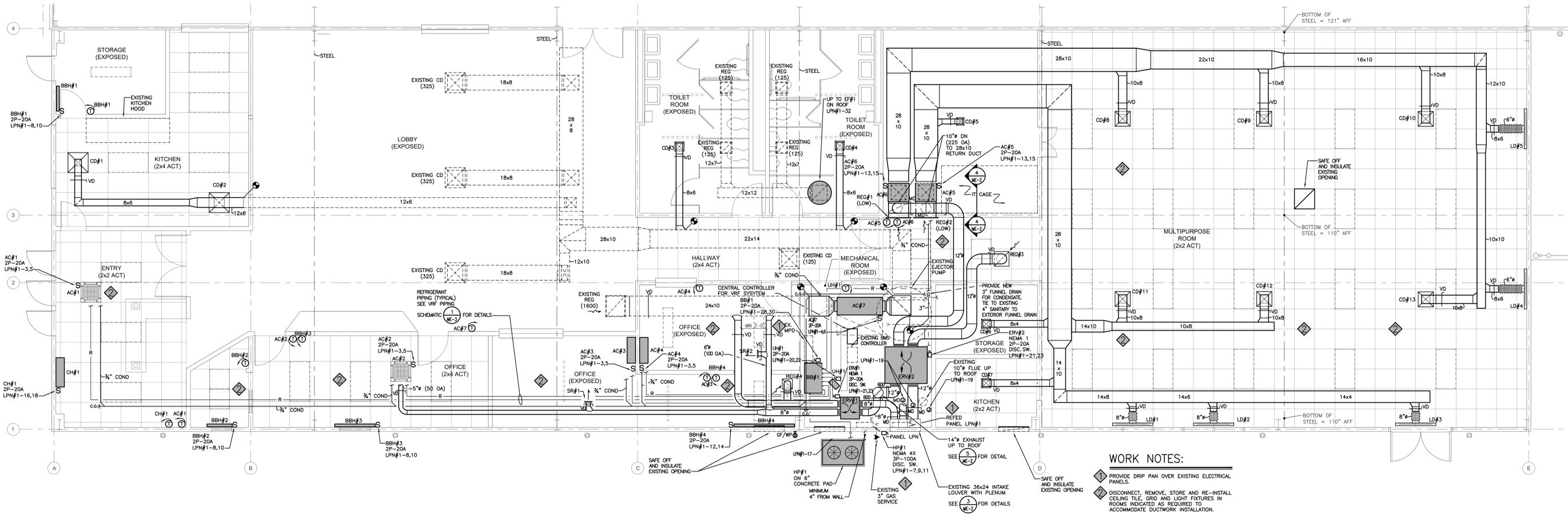
PROJECT NUMBER: 2311

Scale: AS NOTED Date: 05/06/2022

Drawing Title
**MECHANICAL
GROUND LEVEL PLAN -
REMOVALS**

Drawing No.

ME-1



1 MECHANICAL PLAN - GROUND LEVEL
SCALE: 1/4" = 1'-0"

EXISTING

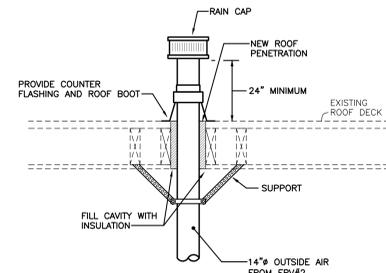
PANEL LPN#1 MAINS CU, 225 (FED FROM LPN FEEDER) AMPERES
VOLTAGE 120/208V, 3 ϕ , 4W & GND
FEEDER SEE RISER

M.L.O. ✓

CIRCUIT	TRIP	ASSIGNMENT	PANEL	ASSIGNMENT	TRIP	CIRCUIT
1	20	EXISTING LOAD	A	EXISTING LOAD	20	2
3	1	BLANK	B	BLANK		4
5	1	BLANK	C	BLANK		6
7			A			8
9	3	DISCONNECT OUTDOOR UNIT #2	B	DISCONNECT OUTDOOR UNIT #1	60	10
11			C			12
13	1	BLANK	A			14
15	1		B	DISCONNECT EXISTING FAN	30	16
17	1		C			18
21	1		A			20
23	1		B			22
25	1		C			24
27	1		A			26
29	1		B			28
31	1		C			30
33	1		A			32
35	1		B			34
35	1		C			36

REMARKS:

5 ENERGY RECOVERY UNIT EXHAUST DETAIL
NOT TO SCALE



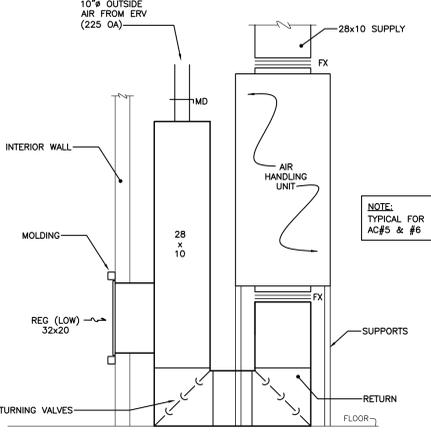
EXISTING PANEL WITH NEW CIRCUIT BREAKERS

PANEL LPN#1 MAINS CU, 225 (FED BY 150A CB) AMPERES
REFEED WITH NEW 150A CB IN MDP
SEE POWER RISER (3) ME-2
VOLTAGE 120/208V, 3 ϕ , 4W & GND
FEEDER SEE RISER

CIRCUIT	TRIP	ASSIGNMENT	SEE RACEWAY/CONDUCTOR NOTES CABLE MIN. #12 GA. THHN CU. WIRE	LOAD WATTS	PANEL	LOAD WATTS	SEE RACEWAY/CONDUCTOR NOTES CABLE MIN. #12 GA. THHN CU. WIRE	ASSIGNMENT	TRIP	CIRCUIT
1	20	EXISTING LOAD TO REMAIN	EXIST	600W	A	600W	EXIST	EXISTING LOAD TO REMAIN	20	2
3	20	NEW AC#1, #2, #3, #4	#12	800W	B	1.2KW	#12	AC#7	20	4
5					C					6
7					A	2KW	#10	NEW BBH#1, #2, #3	20	8
9	30	NEW HP#1	SEE RISER	16KW	B		#10	NEW BBH#4	20	10
11					C	1.5KW	#10		20	12
13	20	NEW AC#5, #6	#10	2.4KW	A				20	14
15	20	NEW EXT REC	#12	180W	B	2.5KW	#10	CH#1	20	16
17	20	NEW MOTORIZED DAMPERS	#12	360W	A				20	18
19	20	ERV#1, #2	#12	600W	B				20	20
21	20				C			SPARE	20	22
23	20				A			SPARE	20	24
25	20	SPARE			B			SPARE	20	26
27	20	SPARE			C	360W	#12	BBH#1	20	28
29	20	SPARE			A				20	30
31	20	SPARE			B	360W	#12	EF#1	20	32
33	1	BLANK			C			SPARE	20	34
35	1	BLANK			A			SPARE	20	36

REMARKS: 1. SPARE BREAKERS TO BE PLACED IN OFF POSITION. CONNECTED LOAD 32 KW

4 MULTIPURPOSE AHU SECTION
NOT TO SCALE

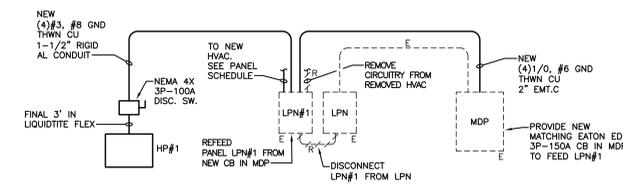


GENERAL ELECTRICAL NOTE:

- EC SHALL TRACE CIRCUITRY FOR EQUIPMENT BEING REMOVED, REMOVE BACK TO SOURCE, MAINTAIN CIRCUITRY FOR EQUIPMENT TO REMAIN.

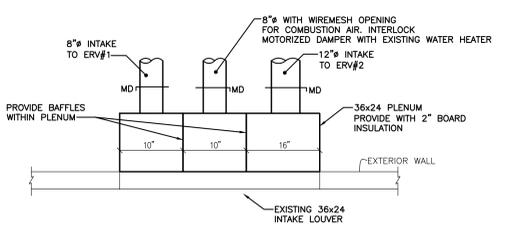
RACEWAY AND CONDUCTOR NOTES:

- ALL CONDUCTORS SHALL BE COPPER THWN, 600V INSULATED.
- IN UTILITY AND STORAGE ROOMS, ALL RACEWAYS SHALL BE EMT CONDUIT WITH COMPRESSION FITTINGS.
- WHERE EXPOSED, ALL RACEWAYS SHALL BE EMT CONDUIT WITH COMPRESSION FITTINGS.
- WHERE CONCEALED ABOVE SUSPENDED CEILINGS, PROVIDE MC CABLE.
- WHERE VERTICAL IN OCCUPIED SPACES, PROVIDE SURFACE WIREMOLD, PAINTED TO MATCH WALL.
- PROVIDE CONTINUOUS GROUNDING AND BONDING FOR ALL NEW AND MODIFIED EQUIPMENT, PIPES, CIRCUITRY AND DUCTWORK.



2 POWER RISER
NOT TO SCALE

3 INTAKE LOUVER SECTION
SCALE: 1/4" = 1'-0"



TOWN OF MAMARONECK
HOMMOCKS ICE RINK

140 HOMMOCKS ROAD
LARCHMONT, NY 10538

HVAC UPGRADES



Revisions

No.	Date	Comments
1	12.22.2023	ISSUED FOR BID

PROJECT NUMBER: 2311
Scale: AS NOTED Date: 05/06/2022

Drawing Title
MECHANICAL
GROUND LEVEL PLAN -
PROPOSED

Drawing No.

ME-2

HEAT PUMP UNIT SCHEDULE									
HP No.	MFR	MODEL	EER/COP47	CAPACITY (MBH) COOLING/HEATING	SIZE (HxWxD)	REFRIG. LIQUID/GAS	WEIGHT (LBS)	ELECTRICAL 208V/3P MCA/MOCP (A)	NOTES
HP#1	TRANE	TURYE-16B3AN40AN	11.2/3.3	168/188	71-5/8"x68-15/16"x29-3/16"	7/8" / 1-1/8"	777	57/90	

NOTE: 1. PROVIDE WITH 10 YEAR EXTENDED WARRANTY AND DIGITAL TOUCHSCREEN CENTRAL CONTROLLER TO BE INSTALLED IN MECHANICAL ROOM.

BRANCH BOX UNIT SCHEDULE											
UNIT No.	MFR	MODEL	OUTDOOR UNIT	No. OF BRANCH CONNECTIONS	LOCATION	ELECTRICAL DATA			WEIGHT (LBS)	SIZE (HxWxD)	NOTES
						VOLT/PH	MCA (A)	MOP (A)			
BB#1	TRANE	TCMBM0108JH11N4	HP#1	8	MECHANICAL ROOM	208/1φ	0.8	20	106	9-7/8"x35-7/8"x21-1/2"	

NOTE:

EXHAUST FAN SCHEDULE									
EXHAUST FAN No.	MFR.	MODEL	C.F.M.	S.P.	H.P.	WALL OR BASE OPG.	CURB TYPE	CONTROLS	NOTES
EF#1	LOREN COOK	100C1SDH	550	0.375	1/8	-	-	TIME CLOCK	

NOTE: PROVIDE BACKDRAFT DAMPER, ADAPTER CURB, VARIABLE SPEED CONTROLLER AT FAN FOR BALANCING.

ADD/ALTERNATE:
TIE ALL NEW EQUIPMENT TO TOWN'S EXISTING HONEYWELL BUILDING MANAGEMENT SYSTEM (BMS).

INDOOR ENERGY RECOVERY UNIT																
GENERAL										ELECTRICAL DATA				WEIGHT (LBS)	FILTERS (0A/RA)	NOTES
ERV No.	SERVICE	LOCATION	MANUFACTURER	MODEL	FAN DATA			EFFECTIVENESS HEATING/COOLING(%)	VOLT/PH	MCA	FLA	MOCOP				
					CFM	ESP	DRIVE									
ERV#1	AC#1,2,3,4,7	MECHANICAL ROOM	RENEWARE	EVPREMIUMLH	200	0.25	ECM	62.2/62.2	208/1φ	10	1.22	10	52	MERV 13	STANDARD MOTOR	
ERV#2	AC#5,6			HE10N	550	0.25	ECM	72.1/58	208/1φ	3.9	1.73	20	385	MERV 13	STANDARD MOTOR	

NOTE: 1. PROVIDE ERV UNITS WITH BACKDRAFT DAMPERS, DIGITAL TIMECLOCK, VIBRATION ISOLATORS.
2. PROVIDE UNITS WITH VFD FOR OUTSIDE AIR AND EXHAUST FANS.
3. PROVIDE UNITS WITH BAGNET CARD.

VRF SPLIT SYSTEM INDOOR UNIT SCHEDULE													
AC#	MFR.	MODEL	SIZE	HEAT PUMP	TYPE	CAPACITY (MBH) COOLING/HEATING	SIZE (HxWxD)	REFRIG. LIQUID/GAS	ELECTRICAL 208V/1φ MCA/MOCP (A)	CFM	ROOM	NOTES	
AC#1	TRANE	TPLYP012FM140A	12	HP#1	CEILING CASSETTE	12/13.5	8-3/16"x22-7/16"x22-7/16"	1/4" / 1/2"	0.3/15	335	ENTRANCE		
AC#2		TPLYP012FM140A	12		CEILING CASSETTE	12/13.5	8-3/16"x22-7/16"x22-7/16"	1/4" / 1/2"	0.3/15	335	ADMIN OFFICE		
AC#3		TPKYFP004LM140A	04		WALL MOUNT	4/4.5	11-25/32"x30-7/16"x9-11/32"	1/4" / 1/2"	0.24/15	148	COACH OFFICE		
AC#4			04		WALL MOUNT						COACH OFFICE		
AC#5		TPYFP048M141A	48		MULTIPOSITION DUCTED UNIT	48/54	59-1/2"x25"x21-5/8"	3/8" / 5/8"	5.63/15	1600	MULTIPURPOSE STORAGE (1)		
AC#6											MULTIPURPOSE STORAGE (2)		
AC#7											MECHANICAL ROOM		

NOTE: PROVIDE WITH CONDENSATE PUMPS, SIMPLE MA THERMOSTAT, AND BAGNET CARD.

ELECTRIC HEATER SCHEDULE									
ELECTRIC HEATER No.	MFR.	MODEL No.	TYPE	LENGTH	WATTS	VOLTS / PHASE	BTU/HR.	CONTROL	NOTES
BBH#1	QMARK	QMKC25026W	COMMERCIAL BASE BOARD	30"	500	208/1φ	1700	THERMOSTAT	
BBH#2		QMKC25026W		30"	500		1700		
BBH#3		QMKC2504W		48"	1000		3500		
BBH#4		QMKC2506W		72"	1500		5100		
CH#1	QMARK	CU935	CABINET	35"	2000	208/1φ	6826	THERMOSTAT	
UH#1	QMARK	MUH03-21	UNIT	14"	3000	208/1φ	10200	THERMOSTAT	

RETURN EXHAUST REGISTER SCHEDULE					
RETURN EXH. No.	MFR.	MODEL	CFM.	SIZE	NOTES
REG#1	PRICE	635 DAL	1600	32x20	
REG#2					
REG#3			550	16x16	
REG#4			50	6x6	

NOTE: EXTRUDED ALUMINUM LOUVER TYPE, 45° FIXED BLADES, 1/2" SPACING, BLADES PARALLEL TO LONG DIMENSION.

CEILING DIFFUSER SCHEDULE					
CEILING DIFF. No.	MFR.	MODEL	CFM.	SIZE	NOTES
CD#1	PRICE	AMDE	150	6x6	
CD#2					
CD#3			100		
CD#4					
CD#5					
CD#6					
CD#7					
CD#8			350	12x12	
CD#9					
CD#10					
CD#11					
CD#12					
CD#13					

NOTE: DIFFUSERS TO BE EXTRUDED ALUMINUM CONSTRUCTION FOR SURFACE MOUNTING. PROVIDE WITH VOLUME DAMPERS

SUPPLY REGISTER SCHEDULE					
SUPPLY REG. No.	MFR.	MODEL	CFM.	SIZE	NOTES
SR#1&2	PRICE	620 DAL	25	6x4	

NOTE: EXTRUDED ALUMINUM, REVERSIBLE CORE SIDE WALL SUPPLY REGISTER WITH ALUMINUM DAMPER, 1" FLAT BORDER AND DIRECTIONAL VANES.

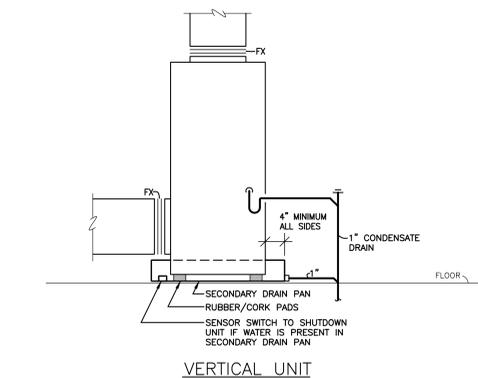
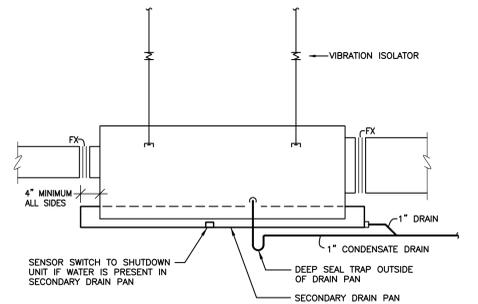
SLOT DIFFUSER SCHEDULE								
SLOT DIFF. No.	MFR.	MODEL	C.F.M.	SIZE	INLET SIZE	SLOTS	THROW	NOTES
LD#1-3	PRICE	JS210	200	4'	8"	1	11'	
LD#4&5			100	4'	6"	1	11'	

NOTE: PROVIDE WITH ENGINEERED PLENUM BOX AND BUTTERFLY CABLE DAMPERS.

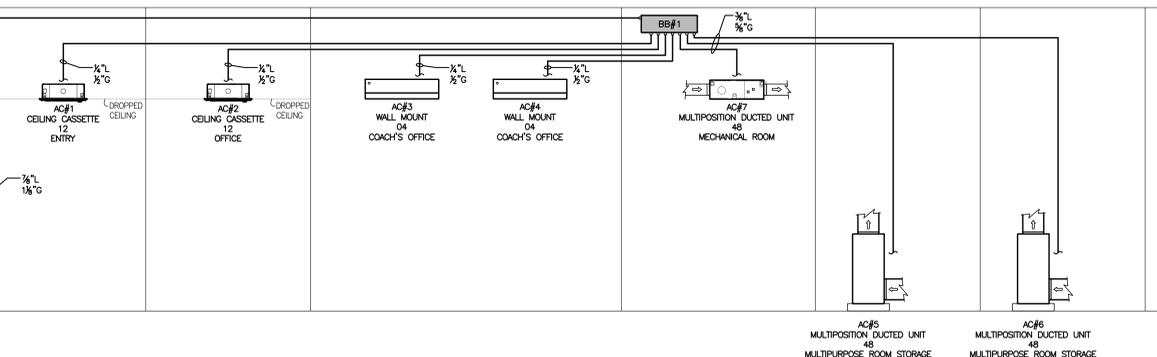
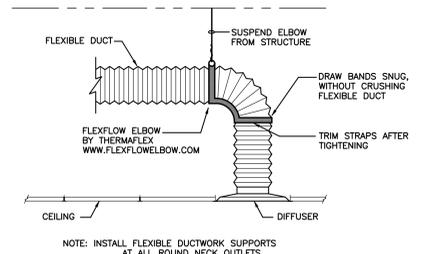
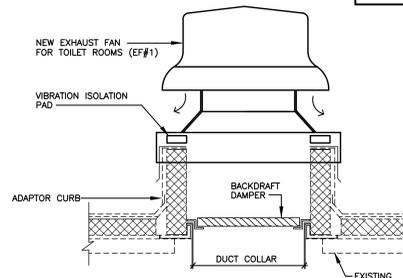
ELECTRIC LEGEND	
SYMBOL	DESCRIPTION &/OR SPECIFICATION
S	TOGGLE TYPE DISCONNECT SWITCH, POLES, AMPS AS INDICATED
□	NEMA# TYPE DISCONNECT NEMA, POLES, AMPS AS INDICATED AND REQUIRED
⊕	JUNCTION BOX
⊕/W/PE	RANITITE WHILE-IN-USE 120V, 20 AMP TAMPER-RESISTANT RECEPTACLE

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE STATE'S ADOPTED NFPA AND ADOPTED NEC WITH LOCAL SUPPLEMENTS.
- WORK PERFORMED SHALL BE UNDERTAKEN WITH PRECAUTION BEING MAINTAINED TO ENSURE SAFETY OF PERSONNEL AND EQUIPMENT IN AREA IN SUCH A MANNER SO AS NOT TO DISTURB NORMAL WORK PROCEDURE.
- WORK SHOWN IS DIAGNOSTIC, EXACT LOCATION OF CONDUIT RUNS SHALL BE DETERMINED IN FIELD. LOCATE NEW CONDUIT RUNS TO CLEAR EXISTING AND NEW PIPING, DUCTWORK, ACCESS DOORS AND OTHER OBSTRUCTIONS. COORDINATE CONDUIT ROUTING WITH WORK OF OTHER TRADES AND ALTER WHERE NECESSARY TO AVOID INTERFERENCE.
- PROVIDE IDENTIFICATION TAGS FOR NEW WIRING AND INSTALL AT EACH END AND IN INTERMEDIATE PULL/JUNCTION BOXES, CABINETS, HOUSINGS, ETC. INDICATE ON TAGS, LEGIBLY, MINIMUM 1/4" HIGH LETTERS, THE POINTS OF ORIGIN AND TERMINATION OF EACH CIRCUIT. INCLUDE DATE OF INSTALLATION.
- WHEN PORTION OF AN EXISTING CIRCUIT IS TO BE REMOVED OR IS ON WALL BEING REMOVED, CONTRACTOR SHALL MAKE NECESSARY MODIFICATIONS AND/OR ADDITIONS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY OF UNCHANGED PORTION.
- VERIFY EXACT LOCATION OF EQUIPMENT, SHOWN OR NOT SHOWN, IN FIELD PRIOR TO PERFORMING ANY WORK.
- VERIFY IN FIELD THAT ANY EQUIPMENT AND WIRING TO BE REMOVED DOES NOT SERVE ACTIVE EQUIPMENT TO REMAIN PRIOR TO DISCONNECTING/REMOVING.
- INSTALL CONDUIT RUNS AS CLOSE TO CEILING DECK AS POSSIBLE. PROVIDE REQUIRED CONDULETS, ELBOWS, FITTINGS, OFFSETS, AND PULLBOXES.
- CONDUITS SHALL BE PROPERLY SUPPORTED FROM CEILING DECK ABOVE. NO CONDUIT SHALL BE SECURED TO, SUPPORTED BY OR HUNG FROM DUCTWORK OR PIPING OR OTHER SUCH ITEMS.
- WORK REQUIRING SHUT-DOWN OF ELECTRIC SERVICE SHALL BE PERFORMED DURING PRE-SCHEDULED SHUT-DOWN AS SCHEDULED AND APPROVED BY ARCHITECT AND OWNER. INCLUDE COSTS IN BID.
- PROVIDE CUTTING AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION.
- PROVIDE SLEEVES FOR RACEWAYS PIERCING FIRE RATED WALLS, FLOORS, AND OTHER CONSTRUCTION OBSTACLES.
- MATERIALS REMOVED BE CONTRACTOR AND NOT REQUIRED FOR INSTALLATION SHALL BE REMOVED FROM PREMISES AND DISPOSED OF IN LEGAL MANNER, IMMEDIATELY WHEN SO DIRECTED BY ARCHITECT.
- APPLY LABELING ON CONDUIT FOR BUILDING ALARM CIRCUITRY AT INTERVALS OF 20 FT.
- CONDUCTORS IN PARALLEL SHALL BE INSTALLED IN STRICT ACCORDANCE WITH APPLICABLE CODES.
- PHASING OF ELECTRICAL WORK SHALL COMPLY WITH "PHASING OF THE WORK" AS DESCRIBED BY ENGINEER/OWNER.
- PROVIDE BLANK COVERS ON ABANDONED OR UNUSED OUTLET BOXES.
- MAKE FINAL CONNECTIONS FOR MOTORIZED EQUIPMENT OR EQUIP. SUBJECT TO VIBRATION, WITH FLEXIBLE RACEWAY.
- IF ANY DEVIATIONS/VARIATIONS ARE DISCOVERED BETWEEN FLOOR PLANS AND CONNECTION DIAGRAMS, THE CONTRACTOR SHALL PROVIDE FOR THE MOST EXPENSIVE SITUATION WITH CREDIT BIDDING, SHOULD THE LESSEER AMOUNT BE REQUIRED.
- WHERE THE PLANS DO NOT INDICATE THE BRANCH CIRCUIT WIRING AND CONDUIT FOR FIXTURES OR OUTLETS NOR THE CONDUIT SIZE FOR FEEDERS, PROVIDE THE CORRECT WIRING QUANTITY AND SIZE, INSTALLED IN CONDUIT AS REQUIRED BY THE INDICATED CIRCUITRY AND THE NATIONAL ELECTRICAL CODE WITH LOCAL SUPPLEMENTS.
- PROVIDE IDENTIFICATION ON EACH FACEPLATE, DISCONNECT SWITCH, PANEL, ETC. IDENTIFICATION OF WIRING DEVICE FACEPLATE SHALL CONSIST OF PANEL DESIGNATION AND CIRCUIT NUMBER OF DEVICE AS CONNECTED, UTILIZE BROUWER "P-TOUCH" TYPE MATERIAL ADHERED TO FACEPLATE. IN HIGH LEVEL FINISH AREAS, LABEL MAYBE BEHIND PLATE.
- NEW SYSTEMS SHALL BE MADE OPERATIONAL AS SPACES ARE ACCEPTED. PROVIDE PERSONNEL, TESTING, SCHEDULING AS REQUIRED. INCLUDE COST IN BID.
- LOCATIONS OF OUTLETS ARE APPROXIMATE AND FINAL LOCATION SHALL BE AS DIRECTED BY THE ARCHITECT. VERIFY ALL LOCATIONS BEFORE INSTALLATION. NO EXTRAS WILL BE ALLOWED FOR CHANGES UP TO 10'-0" FROM LOCATION SHOWN ON PLAN PRIOR TO ROUGH-IN.



2 SECONDARY DRAIN PAN DETAIL
ME-3 NOT TO SCALE



**TOWN OF MAMARONECK
HOMMOCKS ICE RINK**

140 HOMMOCKS ROAD
LARCHMONT, NY 10538

HVAC UPGRADES

TIETJEN VENEGAS
CONSULTING ENGINEERS

88 Purchase Street
Rye, NY 10580
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Tel: 914.967.9505
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www.tietjen.com

Revisions		
No.	Date	Comments
1	12.22.2023	ISSUED FOR BID

PROJECT NUMBER: 2311
Scale: AS NOTED Date: 05/06/2022

Drawing Title
MECHANICAL
VRF PIPING SCHEMATIC, NOTES,
DETAILS & SCHEDULES

Drawing No.

ME-3

APPENDIX-E

*NYSDOL Prevailing
Wage Schedule (PRC#
2023014824)*

Contract TA-24-02



Kathy Hochul, Governor

Roberta Reardon, Commissioner

Town of Mamaroneck
Emma Pennella, Junior Engineer
740 W. Boston Post Road
Mamaroneck NY 10543

Schedule Year 2023 through 2024
Date Requested 12/27/2023
PRC# 2023014824

Location Hommocks Park Ice Rink
Project ID# TA-24-2
Project Type HVAC Upgrades at Hommocks Park Ice Rink

PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

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

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

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

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

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

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 12226

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.

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 from 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 www.labor.ny.gov.

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. As per Article 6 of the Labor law, contractors and subcontractors are required to establish, maintain, and preserve for not less than six (6) years, contemporaneous, true, and accurate payroll records. At a minimum, payrolls must show the following information for each person employed on a public work project: Name, Address, Last 4 Digits of Social Security Number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

The filing of payrolls to the Department of Jurisdiction is a condition of payment. Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury. The Department of Jurisdiction (Contracting Agency) shall collect, review for facial validity, and maintain such payrolls.

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

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

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

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

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

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

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

Withholding of Payments

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

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

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

Summary of Notice Posting Requirements

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

The "[Public Work Project](#)" notice must be posted at the beginning of the performance of every public work contract, on each job site.

Every employer providing workers. compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers. Compensation Board in a conspicuous place on the jobsite.

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

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

Apprentices

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

Town of Mamaroneck
Emma Pennella, Junior Engineer
740 W. Boston Post Road
Mamaroneck NY 10543

Schedule Year 2023 through 2024
Date Requested 12/27/2023
PRC# 2023014824

Location Hommocks Park Ice Rink
Project ID# TA-24-2
Project Type HVAC Upgrades at Hommocks Park Ice Rink

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.



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 or other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

**A certification by the employer attesting that all employees have completed such a course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-457-5589.

WICKS

Public work projects are subject to the Wicks Law requiring separate specifications and bidding for the plumbing, heating and electrical work, when the total project's threshold is \$3 million in Bronx, Kings, New York, Queens and, Richmond counties; \$1.5 million in Nassau, Suffolk and Westchester counties; and \$500,000 in all other counties.

For projects below the monetary threshold, bidders must submit a sealed list naming each subcontractor for the plumbing, HVAC and electrical and the amount to be paid to each. The list may not be changed unless the public owner finds a legitimate construction need, including a change in specifications or costs or the use of a Project Labor Agreement (PLA), and must be open to public inspection.

Allows the state and local agencies and authorities to waive the Wicks Law and use a PLA if it will provide the best work at the lowest possible price. If a PLA is used, all contractors shall participate in apprentice training programs in the trades of work it employs that have been approved by the Department of Labor (DOL) for not less than three years. They shall also have at least one graduate in the last three years and use affirmative efforts to retain minority apprentices. PLA's would be exempt from Wicks, but deemed to be public work subject to prevailing wage enforcement.

The Commissioner of Labor shall have the power to enforce separate specification requirements on projects, and may issue stop-bid orders against public owners for non-compliance.

Other new monetary thresholds, and similar sealed bidding for non-Wicks projects, would apply to certain public authorities including municipal housing authorities, NYC Construction Fund, Yonkers Educational Construction Fund, NYC Municipal Water Finance Authority, Buffalo Municipal Water Finance Authority, Westchester County Health Care Association, Nassau County Health Care Corp., Clifton-Fine Health Care Corp., Erie County Medical Center Corp., NYC Solid Waste Management Facilities, and the Dormitory Authority.

Contractors must pay subcontractors within a 7 days period.

(07.19)

Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

This information is provided to assist you in the interpretation of particular requirements for each classification of worker contained in the attached Schedule of Prevailing Rates.

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway, building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district office located nearest the project. District office locations and phone numbers are listed below.

Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates.

Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing, or rental type units intended for residential use.

Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

Payrolls and Payroll Records

Contractors and subcontractors are required to establish, maintain, and preserve for not less than six (6) years, contemporaneous, true, and accurate payroll records.

Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury.

Paid Holidays

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

Overtime

At a minimum, all work performed on a public work project in excess of eight hours in any one day or more than five days in any workweek is overtime. However, the specific overtime requirements for each trade or occupation on a public work project may differ. Specific overtime requirements for each trade or occupation are contained in the prevailing rate schedules.

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays.

The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Supplemental Benefits

Particular attention should be given to the supplemental benefit requirements. Although in most cases the payment or provision of supplements is straight time for all hours worked, some classifications require the payment or provision of supplements, or a portion of the supplements, to be paid or provided at a premium rate for premium hours worked. Supplements may also be required to be paid or provided on paid holidays, regardless of whether the day is worked. The Overtime Codes and Notes listed on the particular wage classification will indicate these conditions as required.

Effective Dates

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. The rate listed is valid until the next effective rate change or until the new annual determination which takes effect on July 1 of each year. All contractors and subcontractors are required to pay the current prevailing rates of wages and supplements. If you have any questions please contact the Bureau of Public Work or visit the New York State Department of Labor website (www.labor.ny.gov) for current wage rate information.

Apprentice Training Ratios

The following are the allowable ratios of registered Apprentices to Journey-workers.

For example, the ratio 1:1,1:3 indicates the allowable initial ratio is one Apprentice to one Journeyworker. The Journeyworker must be in place on the project before an Apprentice is allowed. Then three additional Journeyworkers are needed before a second Apprentice is allowed. The last ratio repeats indefinitely. Therefore, three more Journeyworkers must be present before a third Apprentice can be hired, and so on.

Please call Apprentice Training Central Office at (518) 457-6820 if you have any questions.

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

Westchester County General Construction

Boilermaker **12/01/2023**

JOB DESCRIPTION Boilermaker

DISTRICT 4

ENTIRE COUNTIES

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

WAGES

Per Hour:	07/01/2023	01/01/2024
Boilermaker	\$ 65.88	\$ 67.38
Repairs & Renovations	65.88	67.38

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

SUPPLEMENTAL BENEFITS

Per Hour:

Boilermaker	33.5% of hourly	33.5% of Hourly
Repair \$ Renovations	Wage Paid	Wage Paid
	+ \$ 26.49	+ \$26.85

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

Repairs & Renovation Includes replacement of parts and repairs & renovation of existing unit.

OVERTIME PAY

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

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

** Labor Day ONLY, if worked.

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

Wage per hour:

(1/2) Year Terms at the following percentage of Boilermaker's Wage

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

Supplemental Benefits Per Hour:

Apprentice(s)	33.5% of Hourly Wage Paid Plus Amount Below	33.5% of Hourly Wage Paid Plus Amount Below
1st Term	\$ 20.12	\$ 20.36
2nd Term	21.03	21.28
3rd Term	21.95	22.22
4th Term	22.83	23.12
5th Term	23.76	24.07
6th Term	24.67	25.00
7th Term	25.58	25.93

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

4-5

Carpenter **12/01/2023**

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2023

Piledriver \$ 59.16
+ 9.79*

Dockbuilder \$ 59.16
+ 9.79*

*This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker \$ 45.34

OVERTIME PAY

See (B, E2, O) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.

Apprentices See (5,6,11,13,25)

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

REGISTERED APPRENTICES

Wages per hour

(1)year terms:

1st	2nd	3rd	4th
\$25.60	\$31.20	\$39.58	\$47.97
+ 5.30*	+ 5.30*	+ 5.30*	+ 5.30*

*This portion is not subject to overtime premiums

Supplemental benefits per hour:

All Terms: \$ 31.83

8-1556 Db

Carpenter

12/01/2023

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2023

Carpet/Resilient

Floor Coverer \$ 55.05
+ 8.25*

*This portion is not subject to overtime premiums

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

SUPPLEMENTAL BENEFITS

Per hour:

\$ 39.45

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (18, 19) on HOLIDAY PAGE.

Paid for 1st & 2nd yr.

Apprentices See (5,6,11,13,16,18,19,25)

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

REGISTERED APPRENTICES

Wage per hour - (1) year terms:

1st	2nd	3rd	4th
\$ 25.20	\$ 28.20	\$ 32.45	\$ 40.33

+ 1.85* + 2.35* + 2.85* + 3.85*

*This portion is not subject to overtime premiums

Supplemental benefits per hour:

	1st	2nd	3rd	4th
	\$ 15.22	\$ 16.22	\$ 19.32	\$ 20.32

8-2287

Carpenter

12/01/2023

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

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

WAGES

Per Hour: 07/01/2023

Marine Construction:

Marine Diver \$ 74.03
 + 9.79*

Marine Tender \$ 53.57
 + 9.79*

*This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyworker \$ 45.34

OVERTIME PAY

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

HOLIDAY

Paid: See (18, 19) on HOLIDAY PAGE

Overtime: See (5, 6, 10, 11, 13, 16, 18, 19) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One (1) year terms.

1st year \$ 25.60
 + 5.30*

2nd year 31.20
 + 5.30*

3rd year 39.58
 + 5.30*

4th year 47.97
 + 5.05*

*This portion is not subject to overtime premiums

Supplemental Benefits

Per Hour:

All terms \$ 31.83

8-1456MC

Carpenter

12/01/2023

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2023

Building
Millwright \$ 58.70
+ 12.62*

*This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS

Per hour:

Millwright \$ 44.31

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (18,19) on HOLIDAY PAGE.

Overtime See (5,6,8,11,13,18,19,25) on HOLIDAY PAGE.

REGISTERED APPRENTICES

Wages per hour:

One (1) year terms:

1st.	2nd.	3rd.	4th.
\$31.74	\$37.19	\$42.64	\$53.54
+ 6.75*	+ 7.92*	+ 9.09*	+ 11.43*

*This portion is not subject to overtime premiums

Supplemental benefits per hour:

One (1) year terms:

1st.	2nd.	3rd.	4th.
\$29.81	\$32.34	\$35.52	\$39.94

8-740.1

Carpenter

12/01/2023

JOB DESCRIPTION Carpenter

DISTRICT 8

ENTIRE COUNTIES

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

WAGES

Per Hour:

07/01/2023

Timberman \$ 54.05
+ 10.26*

*This portion not subject to overtime premiums

SUPPLEMENTAL BENEFITS

Per Hour:

07/01/2023

\$ 44.55

OVERTIME PAY

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

HOLIDAY

Paid: See (1) on HOLIDAY PAGE.

Paid: for 1st & 2nd yr.

Apprentices See (5,6,11,13,25)

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

REGISTERED APPRENTICES

Wages per hour:

One (1) year terms:

1st	2nd	3rd	4th
\$23.42	\$28.53	\$36.18	\$43.84
+ 5.55*	+ 5.55*	+ 5.55*	+ 5.55*

*This portion is not subject to overtime premiums

Supplemental benefits per hour:

All terms \$ 31.54

8-1556 Tm

Carpenter

12/01/2023

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, TompkinsCorner, Mahopac, Croton Falls, east to Connecticut border.

Suffolk: West of Port Jefferson and Patchogue Road to Route 112 to the Atlantic Ocean.

WAGES

Per hour: 07/01/2023

Core Drilling:

Driller \$ 43.88
 + 2.50*

Driller Helper

\$ 34.47
 + 2.50*

Note: Hazardous Waste Pay Differential:

For Level C, an additional 15% above wage rate per hour

For Level B, an additional 15% above wage rate per hour

For Level A, an additional 15% above wage rate per hour

Note: When required to work on water: an additional \$ 3.00 per hour.

*This portion is not subject to overtime premiums

SUPPLEMENTAL BENEFITS

Per hour:

Driller and Helper \$ 28.85

OVERTIME PAY

See (B, G, P) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

8-1536-CoreDriller

Carpenter - Building / Heavy&Highway

12/01/2023

JOB DESCRIPTION Carpenter - Building / Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Putnam, Rockland, Westchester

WAGES

WAGES:(per hour)

Applies to CAPRENTER BUILDING/HEAVY & HIGHWAY/TUNNEL:

	07/01/2023	07/01/2024	07/01/2025	07/01/2026
		Additional	Additional	Additional
Base Wage	\$ 39.80	\$ 1.25**	\$ 1.25**	\$ 1.25**
	+\$6.71*			

*For all hours paid straight or premium.

**To be allocated at a later date.

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

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker \$ 33.22

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	5th
\$ 19.90	\$ 23.88	\$ 25.87	\$ 27.86	\$ 31.84
+3.58*	+3.58*	+3.58*	+3.58*	+3.58*

*For all hours paid straight or premium

SUPPLEMENTAL BENEFITS per hour:

All terms \$ 16.27

11-279.1B/HH

Electrician

12/01/2023

JOB DESCRIPTION Electrician

DISTRICT 9

ENTIRE COUNTIES

Bronx, Kings, New York, Queens, Richmond, Westchester

WAGES

Per hour:	07/01/2023	03/07/2024
Service Technician	\$ 36.40	\$ 37.40

Service and Maintenance on Alarm and Security Systems.

Maintenance, repair and /or replacement of defective (or damaged) equipment on, but not limited to, Burglar - Fire - Security - CCTV - Card Access - Life Safety Systems and associated devices. (Whether by service contract of T&M by customer request.)

SUPPLEMENTAL BENEFITS

Per hour:		
Journeyworker:	\$ 21.07	\$ 21.85

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 11, 15, 16, 17, 25, 26) on HOLIDAY PAGE
 Overtime: See (5, 6, 11, 15, 16, 17, 25, 26) on HOLIDAY PAGE

9-3H

Electrician

12/01/2023

JOB DESCRIPTION Electrician

DISTRICT 8

ENTIRE COUNTIES

Westchester

WAGES

Per hour:	07/01/2023	04/18/2024	04/17/2025
*Electrician/A-Technician	\$ 55.75	\$ 56.75	\$ 58.75

Teledata	55.75	56.75	58.75
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*All new installations of wiring, conduit, junction boxes and light fixtures for projects with a base bid of more than \$325,000. For projects with a base bid of \$325,000 or less, see Maintenance and Repair rates.

Note: On a job where employees are required to work on bridges over navigable waters, transmission towers, light poles, bosun chairs, swinging scaffolds, etc. 40 feet or more above the water or ground or under compressed air, or tunnel projects under construction or where assisted breathing apparatus is required, they will be paid at the rate of time and one-half for such work except on normal pole line or building construction work.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 56.26	\$59.39	\$61.09
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OVERTIME PAY

See (A, G, *J, P) on OVERTIME PAGE

*NOTE: Emergency work on Sunday and Holidays is at the time and one-half overtime rate.

HOLIDAY

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

REGISTERED APPRENTICES

(1) year terms at the following wage rates:

	07/01/2023	04/18/2024	04/17/2025
1st term	\$ 16.00	\$16.00	\$16.00
2nd term	17.00	17.00	17.00
3rd term	19.00	19.00	19.00
4th term	21.00	21.00	21.00
MIJ 1-12 months	26.50	26.50	26.50
MIJ 13-18 months	30.00	30.00	30.00

Supplemental Benefits per hour:

	07/01/2023	04/18/2024	04/17/2025
1st term	\$ 11.63	\$ 12.40	\$ 12.72
2nd term	14.30	15.07	15.89
3rd term	15.62	16.40	17.23
4th term	16.95	17.73	18.57
MIJ 1-12 months	13.92	15.72	15.89
MIJ 13-18 months	14.33	16.17	16.29

8-3/W

Electrician

12/01/2023

JOB DESCRIPTION Electrician

DISTRICT 8

ENTIRE COUNTIES

Westchester

WAGES

Per hour

	07/01/2023	04/18/2024	04/17/2025
Electrician -M	\$ 30.00	\$ 30.00	\$ 30.00
H - Telephone	30.00	30.00	30.00

All work with a base bid amount of \$325,000 or less. Including repairs and /or replacement of defective electrical and teledata equipment, all work necessary to retrofit, service, maintain and repair all kinds of lighting fixtures and local lighting controls, and washing and cleaning of foregoing fixtures.

*If the project exceeds \$375,000 due to changes in the scope of work, an Electrician/A Technician must be part of the labor ratio.

SUPPLEMENTAL BENEFITS

	07/01/2023	04/18/2024	04/17/2025
Electrician & H - Telephone	\$ 14.33	\$ 16.17	\$ 16.29

OVERTIME PAY

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

*Note: Emergency work on Sunday and Holidays is at the time and one-half overtime rate.

HOLIDAY

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

Elevator Constructor

12/01/2023

JOB DESCRIPTION Elevator Constructor

DISTRICT 4

ENTIRE COUNTIES

Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk

PARTIAL COUNTIES

Rockland: Entire County except for the Township of Stony Point

Westchester: Entire County except for the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

WAGES

Per hour:

07/01/2023

Elevator Constructor \$ 77.49

Modernization & Service/Repair \$ 60.89

NOTE - The 'Employer Registration' (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30,2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per Hour:

Elevator Constructor \$ 45.574

Modernization & Service/Repairs 44.412

OVERTIME PAY

Constructor See (D, M, T) on OVERTIME PAGE.

Modern/Service See (B, F, S) on OVERTIME PAGE.

HOLIDAY

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

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

REGISTERED APPRENTICES

WAGES PER HOUR:

*Note:1st, 2nd, 3rd Terms are based on Average wage of Constructor & Modernization.

Terms 4 thru 9 Based on Journeyman's wage of classification Working in.

6 MONTH TERMS:

1st Term*	2nd & 3rd Term*	4th & 5th Term	6th & 7th Term	8th & 9th Term
50%	50%	55%	65%	75%

SUPPLEMENTAL BENEFITS

Elevator Constructor

1st Term	\$ 0.00
2nd & 3rd Term	36.024
4th & 5th Term	36.943
6th & 7th Term	38.448
8th & 9th Term	39.953

Modernization & Service/Repair

1st Term	\$ 0.00
2nd & 3rd Term	35.694
4th & 5th Term	36.525
6th & 7th Term	37.948
8th & 9th Term	39.38

Elevator Constructor

12/01/2023

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	07/01/2023	01/01/2024
Mechanic	\$ 67.35	\$ 70.15
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

NOTE - The "Employer Registration" (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30, 2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per hour	07/01/2023	01/01/2024
Journeyman/Helper	\$ 37.335*	\$ 37.885*

(*)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 Journeyman/Helper

1-138

Glazier

12/01/2023

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:	7/01/2023
Glazier & Glass Tinting	\$ 61.64
*Scaffolding	65.64
Window Film	
**Repair & Maintenance	30.76

*Scaffolding includes swing scaffold, mechanical equipment, scissor jacks, man lifts, booms & buckets 30' or more, but not pipe scaffolding.

**Repair & Maintenance- All repair & maintenance work on a particular building whenever performed, where the total cumulative Repair & Maintenance contract value is under \$184,000.

SUPPLEMENTAL BENEFITS

Per hour:	7/01/2023
Glazier & Glass Tinting	\$ 40.20
Window Film Repair & Maintenance	23.19

OVERTIME PAY

See (B, E, Q, V) on OVERTIME PAGE
 For 'Repair & Maintenance' see (B, B2, I, S) on overtime page.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (4, 6, 16, 25) on HOLIDAY PAGE

For 'Repair & Maintenance'

Paid: See(5, 6, 16, 25)
 Overtime: See(5, 6, 16, 25)

REGISTERED APPRENTICES

Wage per hour:
 (1) year terms at the following wage rates:
 7/01/2023

1st term	\$ 21.93
2nd term	30.05
3rd term	39.95
4th term	48.97

Supplemental Benefits:
 (Per hour)

1st term	\$ 18.25
2nd term	25.97
3rd term	31.27
4th term	34.32

8-1087 (DC9 NYC)

Insulator - Heat & Frost	12/01/2023
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JOB DESCRIPTION Insulator - Heat & Frost

DISTRICT 8

ENTIRE COUNTIES

Dutchess, Orange, Putnam, Rockland, Westchester

WAGES

Per hour:	07/01/2023	06/01/2024
Insulator	\$ 59.25	+ \$ 2.50
Discomfort & Additional Training**	62.31	+ \$ 2.50
Fire Stop Work*	31.77	+ \$ 2.50

* 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 \$0.50 per hour for work 30 feet or more above floor or ground level.

SUPPLEMENTAL BENEFITS

Per hour:	
Journeyworker	\$ 37.35

Discomfort &
 Additional Training 39.39
 Fire Stop Work:
 Journeyworker 19.03

OVERTIME PAY

See (B, E, E2, Q, *T) 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
\$ 31.77	\$ 37.26	\$ 42.76	\$ 48.26

Discomfort & Additional Training Apprentices:

1st	2nd	3rd	4th
\$ 33.30	\$ 39.09	\$ 44.90	\$ 50.71

Supplemental Benefits paid per hour:

Insulator Apprentices:

1st term	\$ 19.03
2nd term	22.69
3rd term	26.36
4th term	30.03

Discomfort & Additional Training Apprentices:

1st term	\$ 20.06
2nd term	23.92
3rd term	27.78
4th term	31.66

8-91

Ironworker

12/01/2023

JOB DESCRIPTION Ironworker

DISTRICT 9

ENTIRE COUNTIES

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

WAGES

Per Hour:	07/01/2023	01/01/2024
Stone Derrickmen Rigger	\$ 72.90	Additional + \$ 1.64
Stone Handset Derrickman	70.47	+ \$ 1.11

SUPPLEMENTAL BENEFITS

Per hour:

Stone Derrickmen Rigger	\$ 43.10
Stone Handset Derrickman	42.84

OVERTIME PAY

See (B, D1, *E, Q, **V) on OVERTIME PAGE

*Time and one-half shall be paid for all work on Saturday up to eight (8) hours and double time shall be paid for all work thereafter.

** Benefits same premium as wages on Holidays only

HOLIDAY

Paid: See (18) on HOLIDAY PAGE

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

Work stops at schedule lunch break with full day's pay.

REGISTERED APPRENTICES

Wage per hour:

Stone Derrickmen Rigger:

	1st	2nd	3rd	4th
07/01/2023	\$ 35.90	\$ 51.53	\$ 57.32	\$ 63.11

Supplemental Benefits:

Per hour:

07/01/2023	22.11	32.58	32.58	32.58
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Stone Handset:

1/2 year terms at the following hourly wage rate:

	1st	2nd	3rd	4th
07/01/2023	34.56	49.75	55.33	60.90

Supplemental Benefits:

Per hour:

07/01/2023	22.10	32.46	32.46	32.46
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9-197D/R

Ironworker

12/01/2023

JOB DESCRIPTION Ironworker

DISTRICT 4

ENTIRE COUNTIES

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

WAGES

Per Hour: 07/01/2023

Ornamental	\$ 46.90
Chain Link Fence	46.90
Guide Rail	46.90

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker: \$ 63.04

OVERTIME PAY

See (B, B1, Q, V) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

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

REGISTERED APPRENTICES

Apprentices Hired after 9/1/18:

1 year terms

	07/01/2023
1st Term	\$ 21.13
2nd Term	24.77
3rd Term	28.40
4th Term	32.06

Supplemental Benefits per hour:

1st Term	\$ 17.90
2nd Term	19.15
3rd Term	20.41
4th Term	21.67

4-580-Or

Ironworker

12/01/2023

JOB DESCRIPTION Ironworker

DISTRICT 4

ENTIRE COUNTIES

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

WAGES

PER HOUR:

	07/01/2023	01/01/2024	07/01/2024 Additional
Ironworker:			
Structural Bridges Machinery	\$ 57.20	\$ 57.70	\$ 1.75/Hr.*

(*)To be allocated at a later date.

SUPPLEMENTAL BENEFITS

PER HOUR PAID:

Journeyman	\$ 87.35	\$ 88.60
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OVERTIME PAY

See (B, B1, Q, *V) on OVERTIME PAGE

*NOTE: Benefits are calculated for every hour paid

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6, 18, 19) on HOLIDAY PAGE

REGISTERED APPRENTICES

WAGES PER HOUR:

6 month terms at the following rate:

1st	\$ 29.73	\$ 29.98
2nd	30.33	30.58
3rd - 6th	30.94	31.19

Supplemental Benefits

PER HOUR PAID:

All Terms	\$ 60.69	\$ 61.59
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4-40/361-Str

Ironworker **12/01/2023**

JOB DESCRIPTION Ironworker

DISTRICT 4

ENTIRE COUNTIES

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

PARTIAL COUNTIES

Rockland: Southern section - south of Convent Road and east of Blue Hills Road.

WAGES

Per hour: 07/01/2023

Reinforcing &
Metal Lathing \$ 56.95

"Base" Wage \$ 55.20
plus \$ 1.75

"Base" Wage is used to calculate overtime hours only.

SUPPLEMENTAL BENEFITS

Per hour:

Reinforcing &
Metal Lathing \$ 42.72

OVERTIME PAY

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

*Only \$23.50 per Hour for non worked hours

Supplemental Benefit Premiums for Overtime Hours worked:

Time & One Half \$ 49.47

Double Time \$ 56.22

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

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

*Note: Work performed after first 4 Hours.

REGISTERED APPRENTICES

(1) year terms at the following wage rates:

1st term	2nd term	3rd term	4th Term
Wage Per Hour: \$ 22.55	\$ 28.38	\$ 34.68	\$ 37.18
"Base" Wage \$ 21.00 plus \$1.55	\$ 26.80 plus \$1.58	\$ 33.10 plus \$1.58	\$ 35.60 plus \$1.58

"Base" Wage is used to calculate overtime hours ONLY.

SUPPLEMENTAL BENIFITS

Per Hour:

1st term	2nd term	3rd term	4th Term
\$ 18.17	\$ 21.34	\$ 22.00	\$ 22.50

4-46Reinf

Laborer - Building

12/01/2023

JOB DESCRIPTION Laborer - Building

DISTRICT 8

ENTIRE COUNTIES

Putnam, Westchester

WAGES

Per hour	07/01/2023	05/01/2024
Laborer	\$ 40.05 plus \$5.45**	+ \$ 2.00
Laborer - Asbestos & Hazardous Materials Removal	\$ 44.50*	+ \$ 2.00

* Abatement/Removal of:

- Lead based or lead containing paint on materials to be repainted is classified as Painter.
- Asbestos containing roofs and roofing material is classified as Roofer.

** This portion is not subject to overtime premium.

NOTE: Upgrade/Material condition work plan for work performed during non-outage under a wage formula of 90% wage/100% fringe benefits at nuclear power plants.

SUPPLEMENTAL BENEFITS

Per hour: 07/01/2023

Journeyworker \$ 30.50

OVERTIME PAY

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

*Note: For Sundays and Holidays worked benefits are at the same premium as wages.

HOLIDAY

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

REGISTERED APPRENTICES

LABORER ONLY

Hourly terms at the following wage:

Level A 0-1000 \$ 28.08	Level B 1001-2000 \$ 31.90	Level C 2001-3000 \$ 35.72	Level D 3001-4000 \$ 39.54
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Supplemental Benefits per hour:

Apprentices
 All terms \$ 23.20

Laborer - Heavy&Highway

12/01/2023

JOB DESCRIPTION Laborer - Heavy&Highway

DISTRICT 8

ENTIRE COUNTIES

Putnam, Westchester

WAGES

PUTNAM: APPLIES TO ALL HEAVY & HIGHWAY WORK EXCLUDING HIGHWAYS, STREETS, AND BRIDGES

GROUP I: Blaster, Quarry Master, Curbs/Asphalt Screedman, Pipe Jacking and Boring Operations Operator, Qualified Dead Condition Pipe Fuser (B Mechanic)

GROUP II: Burner, Drillers(jumbo, joy, wagon, air track, hydraulic), Drill Operator, Self Contained Rotary Drill, Curbs, Raker, Bar Person, Concrete Finisher.

GROUP III: Pavement Breakers, Jeeper Operator, Jack Hammer, Pneumatic Tools (all), Gas Driller, Guniting, Railroad Spike Puller, Pipelayer, Chain Saw, Deck winches on scows, Power Buggy Operator, Power Wheelbarrow Operator, Bar Person Helper, Compressed Air lance, Water Jet Lance.

GROUP IV: Concrete Laborers, Asph. Worker, Rock Scaler, Vibrator Oper., Bit Grinder, Air Tamper, Pumps, Epoxy (adhesives, fillers and troweled on), Barco Rammer, Concrete Grinder, Crack Router Operator, Guide Rail-digging holes and placing concrete and demolition when not to be replaced, distribution of materials and tightening of bolts.

GROUP V: Drillers Helpers, Common Laborer, Mason Tenders, Signal Person, Pit Person, Truck Spotter, Powder Person, Landscape/Nursery Person, Dump Person, Temp. Heat.

GROUP VIA: Asbestos/Toxic Waste Laborer-All removal (Roads, Tunnels, Landfills, etc.) Confined space laborer, Bio-remediation, Phyto-remediation, Lead or Hazardous material, Abatement Laborer.

Wages:(per hour) 07/01/2023

GROUP I	\$ 49.55*
GROUP II	48.20*
GROUP III	47.80*
GROUP IV	47.45*
GROUP V	47.10*
GROUP VIA	49.10*
Operator Qualified	
Gas Mechanic(A Mech)	59.55*
Flagperson	40.75*

*NOTE: To calculate overtime premiums, deduct \$0.10 from above wages

SHIFT WORK: A shift premium will be paid on Public Work contracts for off-shift or irregular shift work when mandated by the NYS D.O.T. or other Governmental Agency contracts. Employees shall receive an additional 15% per hour above current rate for all regular and irregular shift work. Premium pay shall be calculated using the 15% per hour differential as base rate.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker:

First 40 Hours	
Per Hour	\$ 26.60
Over 40 Hours	
Per Hour	19.85

OVERTIME PAY

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

HOLIDAY

Paid: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE

NOTE: For Holiday Overtime: 5, 6 - Code 'S' applies
 For Holiday Overtime: 8, 15, 25, 26 - Code 'R' applies

REGISTERED APPRENTICES

	1st term	2nd term	3rd term	4th term
	1-1000hrs	1001-2000hrs	2001-3000hrs	3001-4000hrs
07/01/2023	\$ 27.46	\$ 32.41	\$ 37.12	\$ 41.83

Supplemental Benefits per hour:

1st term	\$ 3.85 - After 40 hours: \$ 3.60
2nd term	\$ 3.95 - After 40 hours: 3.60
3rd term	\$ 4.45 - After 40 hours: 4.00
4th term	\$ 5.00 - After 40 hours: 4.50

8-60H/H

Laborer - Tunnel

12/01/2023

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)

	07/01/2023	06/01/2024	06/01/2025
Class 1	\$ 55.55	\$ 57.05	\$ 58.55
Class 2	57.70	59.20	60.70
Class 4	64.10	65.60	67.10
Class 5	47.65	49.90	51.40

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

SHIFT DIFFERENTIAL...On all Government mandated irregular shift work:

- Employee shall be paid at time and one half the regular rate Monday through Friday.
- Saturday shall be paid at 1.65 times the regular rate.
- Sunday shall be paid at 2.15 times the regular rate.

SUPPLEMENTAL BENEFITS

Per hour:

Benefit 1	\$ 35.73	\$ 36.98	\$ 38.23
Benefit 2	51.01	TBD	TBD
Benefit 3	71.28	TBD	TBD

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

Benefit 2 applies to over 8 hours in a day (M-F), irregular shift work hours worked, 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

12/01/2023

JOB DESCRIPTION Lineman Electrician

DISTRICT 6

ENTIRE COUNTIES

Westchester

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.

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.

Below rates apply to electrical overhead and underground distribution and maintenance work and overhead and underground transmission line work, electrical substations, switching structures, continuous pipe-type underground fluid or gas filled transmission conduit and cable installations, maintenance jobs or projects, railroad catenary installations and maintenance, third rail installations, the bonding of rails and the installation of fiber optic cable. (Ref #14.04.01)

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.

Per hour:	07/01/2023	05/06/2024
Lineman, Tech, Welder	\$ 60.41	\$ 61.91
Crane, Crawler Backhoe	60.41	61.91
Cable Splicer-Pipe Type	66.45	68.10
Digging Mach Operator	54.37	55.72
Cert. Welder-Pipe Type	63.43	65.01
Tractor Trailer Driver	51.35	52.62
Groundman, Truck Driver	48.33	49.53
Equipment Mechanic	48.33	49.53
Flagman	36.25	37.15

Additional \$1.00 per hour for entire crew when a helicopter is used.

NOTE: 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%

NOTE - The "Employer Registration" (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30, 2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per hour worked (but also required on non-worked holidays):

	07/01/2023	05/06/2024
Lineman, Technician, or Equipment Operators with Crane License	\$ 29.40 *plus 7% of the hourly wage paid	\$ 30.90 *plus 7% of the hourly wage paid
All other Journeyman	\$ 26.40 *plus 7% of the hourly wage paid	\$ 26.90 *plus 7% of the hourly wage paid

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

OVERTIME PAY

See (B, E, Q,) on OVERTIME PAGE. *Note* Double time for emergency work designated by the Dept of Jurisdiction.
 NOTE: 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, 13, 25) on HOLIDAY PAGE plus Governor of NYS Election Day.
 Overtime See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Governor of NYS Election Day.

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 Journeyman Lineman wage.

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

SUPPLEMENTAL BENEFITS per hour:

07/01/2023	05/06/2024
\$ 26.40	\$ 26.90
*plus 7% of the hourly wage paid	*plus 7% of the hourly wage paid

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

6-1249aWest

Lineman Electrician - Teledata

12/01/2023

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

Per hour:

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

	07/01/2023	01/01/2024	01/01/2025
Cable Splicer	\$ 37.73	\$ 39.24	\$ 40.81
Installer, Repairman	\$ 35.81	\$ 37.24	\$ 38.73
Teledata Lineman	\$ 35.81	\$ 37.24	\$ 38.73
Tech., Equip. Operator	\$ 35.81	\$ 37.24	\$ 38.73
Groundman	\$ 18.98	\$ 19.74	\$ 20.53

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

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

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

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2023	01/01/2024	01/01/2025
Journeyman	\$ 5.70	\$ 5.70	\$ 5.70
	*plus 3% of the hourly wage paid	*plus 3% of the hourly wage paid	*plus 3% of the hourly 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

NOTE: 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 **12/01/2023**

JOB DESCRIPTION Lineman Electrician - Traffic Signal, Lighting **DISTRICT 6**

ENTIRE COUNTIES

Westchester

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.

A Groundman/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.
 (Ref #14.01.03)

Per hour:	07/01/2023	05/06/2024
Lineman, Technician	\$ 54.73	\$ 55.95
Crane, Crawler Backhoe	54.73	55.95
Certified Welder	57.47	58.75
Digging Machine	49.26	50.36
Tractor Trailer Driver	46.52	47.56
Groundman, Truck Driver	43.78	44.76
Equipment Mechanic	43.78	44.76
Flagman	32.84	33.57

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.

NOTE: 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%

NOTE - The "Employer Registration" (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30, 2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per hour worked (but also required on non-worked holidays):

	07/01/2023	05/06/2024
Lineman, Technician,	\$ 29.40	\$ 30.90

or Equipment Operators with Crane License	*plus 7% of the hourly wage paid	*plus 7% of the hourly wage paid
All other Journeyman	\$ 26.40 *plus 7% of the hourly wage paid	\$ 26.90 *plus 7% of the hourly wage paid

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

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE. *Note* Double time for emergency work designated by the Dept. of Jurisdiction.
 NOTE: 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, 13, 25) on HOLIDAY PAGE and Governor of NYS Election Day.
 Overtime: See (5, 6, 8, 13, 25) on HOLIDAY PAGE and Governor of NYS Election Day.

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 Journeyman Lineman wage.

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

SUPPLEMENTAL BENEFITS per hour:

07/01/2023	05/06/2024
\$ 26.40	\$ 26.90
*plus 7% of the hourly wage paid	*plus 7% of the hourly wage paid

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

6-1249aWestLT

Mason - Building

12/01/2023

JOB DESCRIPTION Mason - Building	DISTRICT 9		
ENTIRE COUNTIES Nassau, Rockland, Suffolk, Westchester			
WAGES			
Per hour:	07/01/2023	12/04/2023	06/05/2024
Tile Setters	\$ 62.98	\$ 63.50	Additional \$ 0.72
SUPPLEMENTAL BENEFITS			
Per Hour:	\$ 25.61*	\$25.81*	
	+ \$10.04	+ \$10.04	

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

OVERTIME PAY

See (B, E, Q, V) on OVERTIME PAGE
 Work beyond 10 hours on Saturday shall be paid at double the hourly wage rate.

HOLIDAY

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

REGISTERED APPRENTICES

Wage per hour:

(750 hour) term at the following wage rate:

Term:

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	6501-7000

07/01/2023	\$21.70	\$26.66	\$33.75	\$38.69	\$42.25	\$45.70	\$49.29	\$54.23	\$57.09	\$61.25
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12/04/2023	\$21.96	\$26.95	\$34.10	\$39.08	\$42.68	\$46.16	\$49.79	\$54.77	57.66	\$61.90
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Supplemental Benefits per hour:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
07/01/2023	\$12.55*	\$12.55*	\$15.36*	\$15.36*	\$16.36*	\$17.86*	\$18.86*	\$18.86*	\$16.86*	\$22.11*
	+.73	+.78	+.88	+.88	+.137	+.142	+.183	+.188	+.603	+.661

12/04/2023	\$12.55*	\$12.55*	\$15.63*	\$15.36*	\$16.36*	\$17.86*	\$18.86*	\$18.86*	\$16.86*	\$22.11*
	+.073	+.078	+.089	+.094	+.138	+.143	+.184	+.189	+.604	+.662

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

9-7/52A

Mason - Building **12/01/2023**

JOB DESCRIPTION Mason - Building

DISTRICT 11

ENTIRE COUNTIES
 Putnam, Rockland, Westchester

PARTIAL COUNTIES
 Orange: Only the Township of Tuxedo.

WAGES

Per hour:

07/01/2023

Bricklayer	\$ 45.89
Cement Mason	45.89
Plasterer/Stone Mason	45.89
Pointer/Caulker	45.89

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 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	\$ 37.95
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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%

Apprentices indentured before June 1st, 2011 receive full journeyman benefits

11-5wp-b

Mason - Building **12/01/2023**

JOB DESCRIPTION Mason - Building **DISTRICT 9**

ENTIRE COUNTIES
 Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES

Building	07/01/2023	01/01/2024
Wages per hour:		Additional
Mosaic & Terrazzo Mechanic	\$ 60.65	\$1.06
Mosaic & Terrazzo Finisher	59.04	

SUPPLEMENTAL BENEFITS

Per hour:

Mosaic & Terrazzo Mechanic	\$ 30.26* + \$9.16
Mosaic & Terrazzo Finisher	\$ 30.26* + \$9.15

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

OVERTIME PAY

See (A, E, Q) on OVERTIME PAGE
 07/01/2023- Deduct \$7.25 from hourly wages before calculating overtime.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE
 Easter Sunday is an observed holiday. Holidays falling on a Saturday will be observed on that Saturday. Holidays falling on a Sunday will be celebrated on the Monday.

REGISTERED APPRENTICES

Wages Per hour:

	1st	2nd	3rd	4th	5th	6th
	0-1500	1501-3000	3001-3750	3751-4500	4501-5250	5251-6000
	\$ 25.82	\$ 33.19	\$ 36.39	\$ 40.38	\$ 48.52	\$ 54.59

Supplemental Benefits per hour:

\$6.00* +\$3.21	\$7.72* +\$4.12	\$18.16* +\$5.50	\$23.27* +\$6.41	\$24.21* +\$7.33	\$27.24* +\$8.29
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*This portion of benefits subject to same premium rate as shown for overtime wages.

9-7/3

Mason - Building **12/01/2023**

JOB DESCRIPTION Mason - Building **DISTRICT 9**

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2023 07/03/2023

Building-Marble Restoration:
 Marble, Stone & \$ 47.22 \$ 47.44

Terrazzo Polisher

SUPPLEMENTAL BENEFITS

Per Hour:
 Journeyworker:

Building-Marble Restoration:
 Marble, Stone &
 Polisher \$ 30.29 \$ 30.64

OVERTIME PAY

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

*ON SATURDAYS, 8TH HOUR AND SUCCESSIVE HOURS PAID AT DOUBLE HOURLY RATE.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
 1ST TERM APPRENTICE GETS PAID FOR ALL OBSERVED HOLIDAYS.

REGISTERED APPRENTICES

WAGES per hour:

900 hour term at the following wage:

1st 1- 900	2nd 901- 1800	3rd 1801- 2700	4th 2701
\$ 33.04	\$ 37.78	\$ 42.49	\$ 47.22

Supplemental Benefits Per Hour:
 27.65 28.52 29.41 30.29

07/03/2023

900 hour term at the following wage:

1st 1- 900	2nd 901- 1800	3rd 1801- 2700	4th 2701
\$ 33.19	\$ 37.95	\$ 42.69	\$ 47.44

Supplemental Benefits Per Hour:
 27.99 28.86 29.76 30.64

9-7/24-MP

Mason - Building

12/01/2023

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: 07/01/2023 7/03/2023

Marble Cutters & Setters \$ 62.82 \$ 63.12

SUPPLEMENTAL BENEFITS

Per Hour:
 Journeyworker \$ 39.03 \$ 39.34

OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

Wage Per Hour:

07/01/2023

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+
\$ 26.42	\$ 39.62	\$ 42.91	\$ 46.22	\$ 49.52	\$ 53.38	\$ 59.67	\$ 62.82

Supplemental Benefits per hour:

07/01/2023

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 25.38	\$ 28.86	\$ 29.74	\$ 30.60	\$ 31.48	\$ 36.44	\$ 38.17	\$ 39.03

07/03/2023

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+
\$ 26.60	\$ 39.82	\$ 43.13	\$ 46.45	\$ 49.78	\$ 53.64	\$ 59.95	\$ 63.12

Supplemental Benefits Per Hour:

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 25.54	\$ 29.09	\$ 29.97	\$ 30.84	\$ 31.72	\$ 36.73	\$ 38.48	\$ 39.34

9-7/4

Mason - Building **12/01/2023**

JOB DESCRIPTION Mason - Building

DISTRICT 9

ENTIRE COUNTIES

Nassau, Rockland, Suffolk, Westchester

WAGES

Per hour:	07/01/2023	12/04/2023	06/03/2024
Tile Finisher	\$ 48.36	\$ 48.80	Additional \$ 0.59

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2023	12/04/2023
	\$ 22.56*	\$ 22.71*
	+ \$9.86	+ \$9.86

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

OVERTIME PAY

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

*Work beyond 10 hours on a Saturday shall be paid at double the hourly wage rate.

HOLIDAY

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

9-7/88A-tf

Mason - Building **12/01/2023**

JOB DESCRIPTION Mason - Building **DISTRICT 9**

ENTIRE COUNTIES
 Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES

Per hour:	07/01/2023	07/03/2023
Marble, Stone, Maintenance Finishers:	\$ 27.26	\$ 27.44

Note 1: An additional \$2.00 per hour for time spent grinding floor using "60 grit" and below.
 Note 2: Flaming equipment operator shall be paid an additional \$25.00 per day.

SUPPLEMENTAL BENEFITS

Per Hour:

Marble, Stone Maintenance Finishers:	\$ 14.97	\$ 15.20
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OVERTIME PAY
 See (B, *E, Q, V) on OVERTIME PAGE
 *Double hourly rate after 8 hours on Saturday

HOLIDAY
 Paid: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 11, 15, 25) on HOLIDAY PAGE
 1st term apprentice gets paid for all observed holidays.

REGISTERED APPRENTICES

WAGES per hour:

	07/01/2023	07/03/2023
0-750	\$ 21.89	\$ 22.04
751-1500	22.60	\$ 22.75
1501-2250	23.32	\$ 23.48
2251-3000	24.04	\$ 24.20
3001-3750	25.11	\$ 25.27
3751-4500	26.54	\$ 26.72
4501+	27.26	\$ 27.44

Supplemental Benefits:
 Per hour:

0-750	12.03	\$ 12.24
751-1500	12.43	\$ 12.64
1501-2250	12.82	\$ 13.03
2251-3000	13.21	\$ 13.42
3001-3750	13.80	\$ 14.02
3751-4500	14.58	\$ 14.80
4501+	14.97	\$ 15.20

9-7/24M-MF

Mason - Building / Heavy&Highway **12/01/2023**

JOB DESCRIPTION Mason - Building / Heavy&Highway **DISTRICT 9**

ENTIRE COUNTIES
 Bronx, Kings, Nassau, New York, Queens, Richmond, Suffolk, Westchester

WAGES

Per hour:	07/01/2023	07/03/2023	01/01/2024
Marble-Finisher	\$ 49.32	\$ 49.65	Additional \$ 0.53

SUPPLEMENTAL BENEFITS

Journeyworker:
 Per hour

Marble- Finisher	\$ 36.62	\$ 36.67
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OVERTIME PAY

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

Work beyond 8 hours on a Saturday shall be paid at double the rate.

HOLIDAY

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

When an observed holiday falls on a Sunday, it will be observed the next day.

9-7/20-MF

Mason - Heavy&Highway

12/01/2023

JOB DESCRIPTION Mason - Heavy&Highway

DISTRICT 11

ENTIRE COUNTIES

Putnam, Rockland, Westchester

PARTIAL COUNTIES

Orange: Only the Township of Tuxedo.

WAGES

Per hour:

07/01/2023

Bricklayer	\$ 46.39
Cement Mason	46.39
Marble/Stone Mason	46.39
Plasterer	46.39
Pointer/Caulker	46.39

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	\$ 37.95
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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%

Apprentices indentured before June 1st, 2011 receive full journeyman benefits

11-5WP-H/H

Operating Engineer - Building

12/01/2023

JOB DESCRIPTION Operating Engineer - Building

DISTRICT 9

ENTIRE COUNTIES

Bronx, Kings, New York, Putnam, Queens, Richmond, Westchester

PARTIAL COUNTIES

Dutchess: that part of Dutchess County lying south of the North City Line of the City of Poughkeepsie.

WAGES

NOTE: Construction surveying

Party Chief--One who directs a survey party

Instrument Man--One who runs the instrument and assists Party Chief.

Rodman--One who holds the rod and assists the Survey Crew

Wages:(Per Hour) 07/01/2023

Building Construction:

Party Chief \$ 77.39

Instrument Man 61.25

Rodman 41.39

Steel Erection:

Party Chief 80.16

Instrument Man 63.60

Rodman 44.23

**Heavy Construction-NYC counties only:
(Foundation, Excavation.)**

Party Chief 85.74

Instrument man 64.40

Rodman 54.90

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2023

Building Construction \$ 28.04* +\$ 7.65

Steel Erection 28.64* +\$ 7.65

Heavy Construction 28.85* +\$ 7.64

* This portion subject to same premium as wages

Non-Worked Holiday Supplemental Benefit:

21.19

OVERTIME PAY

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

Code "A" applies to Building Construction and has double the rate after 7 hours on Saturdays.

Code "B" applies to Heavy Construction and Steel Erection and had double the rate after 8 hours on Saturdays.

HOLIDAY

Paid: See (5, 6, 9, 11, 15, 16, 25) on HOLIDAY PAGE

Overtime: See (5, 6, 9, 11, 15, 16, 25) on HOLIDAY PAGE

9-15Db

Operating Engineer - Building

12/01/2023

JOB DESCRIPTION Operating Engineer - Building

DISTRICT 8

ENTIRE COUNTIES

Putnam, Westchester

PARTIAL COUNTIES

Dutchess: All the counties of Westchester and Putnam and the southern part of Dutchess County defined by the northern boundary line of the City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to Van Wagner Road, then north along Van Wagner Road to Bower Road, then east along Bower Road to Route 44 and along Route 44 east to Route 343, then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut and bordered on the west by the middle of the Hudson River.

WAGES

GROUP I:

Cranes (All Types up to 49 tons), Boom Trucks, Cherry Pickers (All Types), Clamshell Crane, Derrick (Stone and Steel), Dragline, Franki Pile Rig or similar, High Lift (Lull or similar) with crane attachment and winch used for hoisting or lifting, Hydraulic Cranes, Pile Drivers, Potain and similar.

Cranes (All types 50-99 tons), Drill Rig Casa Grande (CAT or similar), Franki Pile Rig or similar, Hydraulic Cranes (All types including Crawler Cranes- No specific boom length).

Cranes (All types 100 tons and over), All Tower Cranes, All Climbing Cranes irrespective of manufacturer and regardless of how the same is rigged, Franki Pile Rig or similar, Conventional Cranes (All types including Crawler Cranes-No specific boom length), Hydraulic Cranes.

GROUP I-A: Barber Green Loader-Euclid Loader, Bulldozer, Carrier-Trailer Horse, Concrete Cleaning Decontamination Machine Operator, Concrete-Portable Hoist, Conway or Similar Mucking Machines, Elevator & Cage, Excavators all types, Front End Loaders, Gradall, Shovel, Backhoe, etc.(Crawler or Truck), Heavy Equipment Robotics Operator/Mechanic, Hoist Engineer-Material, Hoist Portable Mobile Unit, Hoist(Single, Double or Triple Drum), Horizontal Directional Drill Locator, Horizontal Directional Drill Operator and Jersey Spreader, Letourneau or Tournapull(Scrapers over 20 yards Struck), Lift Slab Console, etc., Lull HiLift or Similar, Master Environmental Maintenance Mechanics, Mucking Machines Operator/Mechanic or Similar Type, Overhead Crane, Pavement Breaker(Air Ram), Paver(Concrete), Post Hole Digger, Power House Plant, Road Boring Machine, Road Mix Machine, Ross Carrier and Similar Machines, Rubber tire double end backhoes and similar machines, Scoopmobile Tractor-Shovel Over 1.5 yards, Shovel (Tunnels), Spreader (Asphalt) Telephie(Cableway), Tractor Type Demolition Equipment, Trenching Machines-Vermeer Concrete Saw Trencher and Similar, Ultra High Pressure Waterjet Cutting Tool System, Vacuum Blasting Machine operator/mechanic, Winch Truck A Frame.

GROUP I-B: Compressor (Steel Erection), Mechanic (Outside All Types), Negative Air Machine (Asbestos Removal), Push Button (Buzz Box) Elevator.

GROUP II: Compactor Self-Propelled, Concrete Pump, Crane Operator in Training (Over 100 Tons), Grader, Machines Pulling Sheep's Foot Roller, Roller (4 ton and over), Scrapers (20 yards Struck and Under), Vibratory Rollers, Welder.

GROUP III-A: Asphalt Plant, Concrete Mixing Plants, Forklift (All power sources), Joy Drill or similar, Tractor Drilling Machine, Loader (1 1/2 yards and under), Portable Asphalt Plant, Portable Batch Plant, Portable Crusher, Skid Steer (Bobcat or similar), Stone Crusher, Well Drilling Machine, Well Point System.

GROUP III-B: Compressor Over 125 cu. Feet, Conveyor Belt Machine regardless of size, Compressor Plant, Ladder Hoist, Stud Machine.

GROUP IV-A: Batch Plant, Concrete Breaker, Concrete Spreader, Curb Cutter Machine, Finishing Machine-Concrete, Fine Grading Machine, Hepa Vac Clean Air Machine, Material Hopper(sand, stone, cement), Mulching Grass Spreader, Pump Gypsum etc, Pump-Plaster-GROUT-Fireproofing. Roller(Under 4 Ton),Spreading and Fine Grading Machine, Steel Cutting Machine, Siphon Pump, Tar Joint Machine, Television Cameras for Water, Sewer, Gas etc. Turbo Jet Burner or Similar Equipment, Vibrator (1 to 5).

GROUP IV-B: Compressor (all types), Heater (All Types), Fire Watchman, Lighting Unit (Portable & Generator) Pump, Pump Station(Water, Sewer, Portable, Temporary), Welding Machine (Steel Erection & Excavation).

GROUP V: Mechanics Helper, Motorized Roller (walk behind), Stock Attendant, Welder's Helper, Maintenance Engineer Crane(75 ton and over).

Group VI-A: Welder Certified

GROUP VI-B: Utility Man, Warehouse Man.

WAGES: (per hour)

	07/01/2023	03/04/2024
GROUP I		
Cranes- up to 49 tons	\$ 66.23	\$ 67.43
Cranes- 50 tons to 99 tons	68.53	69.77
Cranes- 100 tons and over	78.21	79.64
GROUP I-A	58.01	59.04
GROUP I-B	53.48	54.41
GROUP II	55.98	56.97
GROUP III-A	53.94	54.88
GROUP III-B	51.35	52.25
GROUP IV-A	53.40	54.33
GROUP IV-B	45.17	45.94
GROUP V	48.69	49.53

Group VI-A	56.96	57.96
GROUP VI-B		
Utility Man	46.21	47.00
Warehouse Man	48.52	49.26

An additional 20% to wage when required to wear protective equipment on hazardous/toxic waste projects.
 Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour.
 Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour.
 Loader operators over 5 cubic yard capacity additional .50 per hour.
 Shovel operators over 4 cubic yard capacity additional \$1.00 per hour.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker	\$ 31.57	\$ 32.32
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OVERTIME PAY

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

HOLIDAY

Paid: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE

8-137B

Operating Engineer - Heavy&Highway

12/01/2023

JOB DESCRIPTION Operating Engineer - Heavy&Highway

DISTRICT 8

ENTIRE COUNTIES

Putnam, Westchester

PARTIAL COUNTIES

Dutchess: All the counties of Westchester and Putnam and the southern part of Dutchess County defined by the northern boundary line of the City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to Van Wagner Road, then north along Van Wagner Road to Bower Road, then east along Bower Road to Route 44 and along Route 44 east to Route 343, then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut and bordered on the west by the middle of the Hudson River.

WAGES

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane, (Crawler, Truck), Dragline, Drill Rig (Casa Grande, Cat, or Similar), Floating Crane (Crane on Barges) under 100 tons, Gin Pole, Hoist Engineer-Concrete (Crane-Derrick-Mine Hoist), Knuckle Boom Crane, Rough Terrain Crane.

GROUP I-A: Auger (Truck or Truck Mounted), Boat Captain, Bulldozer-All Sizes, Central Mix Plant Operator, Chipper (all types), Close Circuit T.V., Combination Loader/Backhoe, Compactor with Blade, Concrete Finishing Machine, Gradall, Grader (Motor Grader), Elevator & Cage (Materials or Passenger), Excavator (and all attachments), Front End Loaders (1 1/2 yards and over), High Lift Lull and similar, Hoist (Single, Double, Triple Drum), Hoist Portable Mobile Unit, Hoist Engineer (Material), Jack and Bore Machine, Log Skidders, Mill Machines, Mucking Machines, Overhead Crane, Paver (concrete), Post Pounder (of any type), Push Cats, Road Reclaimer, Robot Hammer (Brokk or similar), Robotic Equipment (Scope of Engineer Schedule), Ross Carrier and similar, Scrapers (20 yard struck and over), Side Boom, Slip Form Machine, Spreader (Asphalt), Trenching Machines (Telephies-Vermeer Concrete Saw), Tractor Type Demolition Equipment, Vacuum Truck. Vibratory Roller(Riding) or Roller used in mainline paving operations.

GROUP I-B: Asphalt Mobile Conveyor/Transfer Machine, Road Paver (Asphalt).

GROUP II-A: Ballast Regulators, Compactor Self Propelled, Fusion Machine, Rail Anchor Machines, Roller (4 ton and over), Scrapers (20 yard struck and under).

GROUP II-B: Mechanic (Outside) All Types, Shop Mechanic.

GROUP III: Air Tractor Drill, Asphalt Plant, Batch Plant, Boiler (High Pressure), Concrete Breaker (Track or Rubber Tire), Concrete Pump, Concrete Spreader, Excavator Drill, Farm Tractor, Forklift (all types), Gas Tapping (Live), Hydroseeder, Loader (1 1/2 yards and under), Locomotive (all sizes), Machine Pulling Sheeps Foot Roller, Portable Asphalt Plant, Portable Batch Plant, Portable Crusher (Apprentice), Powerhouse Plant, Roller (under 4 ton), Sheer Excavator, Skid Steer/Bobcat, Stone Crusher, Sweeper (with seat), Well Drilling Machine.

GROUP IV: Service Person (Grease Truck), Deckhand.

GROUP IV-B: Conveyor Belt Machine (Truck Mounted), Heater (all types), Lighting Unit (Portable), Maintenance Engineer (For Crane Only), Mechanics Helper, Pump (Fireproofing), Pumps-Pump Station/Water/Sewer/Gypsum/Plaster, etc., Pump Truck (Sewer Jet or Similar), Welders Helper, Welding Machine (Steel Erection), Well Point System.

GROUP V: All Tower Cranes-All Climbing Cranes and all cranes of 100-ton capacity or greater (3900 Manitowac or similar) irrespective of manufacturer and regardless of how the same is rigged, Hoist Engineer (Steel), Engineer-Pile Driver, Jersey Spreader, Pavement Breaker/Post Hole Digger.

WAGES: Per hour:	07/01/2023	03/04/2024
Group I	\$ 67.27	\$ 68.63
Group I-A	59.26	60.42
Group I-B	62.46	63.70
Group II-A	56.74	57.84
Group II-B	58.52	59.67
Group III	55.74	56.81
Group IV	50.63	51.57
Group IV-B	43.43	44.19
Group V		
Engineer All Tower, Climbing and Cranes of 100 Tons	76.24	77.82
Hoist Engineer(Steel)	69.01	70.41
Engineer(Pile Driver)	73.61	75.13
Jersey Spreader, Pavement Breaker (Air Ram)Post Hole Digger	58.06	59.19

SHIFT DIFFERENTIAL:

A 15% premium on all hours paid, including overtime hours for 2nd, 3rd shifts on all government mandated off-shift work

Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour over the rate listed in the Wage Schedule. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour over the rate listed in the Wage Schedule. Loader and Excavator Operators: over 5 cubic yards capacity \$0.50 per hour over the rate listed in the Wage Schedule. Shovel Operators: over 4 cubic yards capacity \$1.00 per hour over the rate listed in the Wage Schedule.

NOTE - The "Employer Registration" (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30,2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker:	\$ 33.75 up to 40 Hours	\$ 34.85 up to 40 hours
	After 40 hours \$ 24.50* PLUS \$ 1.25 on all hours worked	After 40 hours \$ 25.55* PLUS \$ 1.25 on all hours worked

*This amount is subject to premium

OVERTIME PAY

See (B, E, P, *R, **U) on OVERTIME PAGE

HOLIDAY

Paid:..... See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE

Overtime..... See (5, 6, 8, 15, 25, 26) on OVERTIME PAGE

* For Holiday codes 8,15,25,26 code R applies

** For Holiday Codes 5 & 6 code U applies

Note: If employees are required to work on Easter Sunday they shall be paid at the rate of triple time.

REGISTERED APPRENTICES

(1)year terms at the following rate.

1st term	\$ 29.63	\$ 30.21
2nd term	35.56	36.25
3rd term	41.48	42.30
4th term	47.41	48.34
Supplemental Benefits per hour:		
	25.70	26.85

Operating Engineer - Heavy&Highway

12/01/2023

JOB DESCRIPTION Operating Engineer - Heavy&Highway

DISTRICT 9

ENTIRE COUNTIES

Putnam, Westchester

PARTIAL COUNTIES

Dutchess: South of the North city line of Poughkeepsie

WAGES

Party Chief - One who directs a survey party

Instrument Man - One who runs the instrument and assists Party Chief

Rodman - One who holds the rod and in general, assists the Survey Crew

Categories cover GPS & Underground Surveying

Per Hour: 07/01/2023

Party Chief \$ 81.72

Instrument Man 61.43

Rodman 52.40

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2023

All Categories

Straight Time: \$ 25.25* + \$7.64

Premium:

Time & 1/2 \$ 37.88* + \$7.64

Double Time

\$ 50.50* + \$7.64

Non-Worked Holiday Supplemental Benefits:

\$ 21.19

OVERTIME PAY

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

* Doubletime paid on all hours in excess of 8 hours on Saturday

HOLIDAY

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

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

9-15Dh

Operating Engineer - Heavy&Highway - Tunnel

12/01/2023

JOB DESCRIPTION Operating Engineer - Heavy&Highway - Tunnel

DISTRICT 8

ENTIRE COUNTIES

Putnam, Westchester

PARTIAL COUNTIES

Dutchess: All the counties of Westchester and Putnam and the southern part of Dutchess County defined by the northern boundary line of the City of Poughkeepsie, then due east to Route 115, then north along Route 115 to Bedell Road, then east along Bedell Road to Van Wagner Road, then north along Van Wagner Road to Bower Road, then east along Bower Road to Route 44 and along Route 44 east to Route 343, then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to the border line of the State of Connecticut and bordered on the west by the middle of the Hudson River.

WAGES

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane(Crawler, Truck), Dragline, Drill Rig Casa Grande(Cat or Similar), Floating Crane(Crane on Barge-Under 100 Tons), Hoist Engineer(Concrete/Crane-Derrick-Mine Hoist), Knuckle Boom Crane, Rough Terrain Crane.

GROUP I-A: Auger(Truck or Truck Mounted), Boat Captain, Bull Dozer-all sizes, Central Mix Plant Operator, Chipper-all types, Close Circuit T.V., Combination Loader/Backhoe, Compactor with Blade, Concrete Finishing Machine, Gradall, Grader(Motor Grader), Elevator & Cage(Materials or Passengers), Excavator(and all attachments), Front End Loaders(1 1/2 yards and over), High Lift Lull, Hoist(Single, Double, Triple Drum), Hoist Portable Mobile Unit, Hoist Engineer(Material), Jack and Bore Machine, Log Skidder, Milling Machine, Moveable Concrete Barrier Transfer & Transport Vehicle, Mucking Machines, Overhead Crane, Paver(Concrete), Post Pounder of any type, Push Cats, Road Reclaimer, Robot Hammer(Brokk or similar), Robotic Equipment(Scope of Engineer Schedule), Ross Carrier and similar machines, Scrapers(20 yards struck and over), Side Boom, Slip Form Machine, Spreader(Asphalt), Trenching Machines, Telephies-Vermeer Concrete Saw, Tractor type demolition equipment, Vacuum Truck, Vibratory Roller (Riding) used in mainline paving operations.

GROUP I-B: Asphalt Mobile Conveyor/Transfer Machine, Road Paver(Asphalt).

GROUP II-A: Ballast Regulators, Compactor(Self-propelled), Fusion Machine, Rail Anchor Machines, Roller(4 ton and over), Scrapers(20 yard struck and under).

GROUP II-B: Mechanic(outside)all types, Shop Mechanic.

GROUP III: Air Tractor Drill, Asphalt Plant, Batch Plant, Boiler(High Pressure), Concrete Breaker(Track or Rubber Tire), Concrete Pump, Concrete Spreader, Excavator Drill, Farm Tractor, Forklift(all types of power), Gas Tapping(Live), Hydroseeder, Loader(1 1/2 yards and under), Locomotive(all sizes), Machine Pulling Sheeps Foot Roller, Portable Asphalt Plant, Portable Batch Plant, Portable Crusher(Apprentice), Powerhouse Plant, Roller(under 4 ton), Sheer Excavator, Skidsteer/Bobcat, Stone Crusher, Sweeper(with seat), Well Drilling Machine.

GROUP IV-A: Service Person(Grease Truck), Deckhand.

GROUP IV-B: Conveyor Belt Machine(Truck Mounted), Heater(all types), Lighting Unit(Portable), Maintenance Engineer(for Crane only), Mechanics Helper, Pump(Fireproofing), Pumps-Pump Station/Water/Sewer/Gypsum/Plaster, etc., Pump Truck(Sewer Jet or similar), Welding Machine(Steel Erection), Welders Helper.

GROUP V-A: Engineer(all Tower Cranes, all Climbing Cranes & all Cranes of 100 ton capacity or greater),Hoist Engineer(Steel-Sub Structure), Engineer-Pile Driver, Jersey-Spreader, Pavement breaker, Post Hole Digger

WAGES: (per hour)

	07/01/2023	03/04/2024
GROUP I	\$ 67.27	\$ 68.63
GROUP I-A	59.26	60.42
GROUP I-B	62.46	63.70
GROUP II-A	56.74	57.84
GROUP II-B	58.52	59.67
GROUP III	55.74	56.81
GROUP IV-A	50.63	51.57
GROUP IV-B	43.43	44.19
GROUP V-A		
Engineer-Cranes	76.24	77.82
Engineer-Pile Driver	73.61	75.13
Hoist Engineer	69.01	70.41
Jersey Spreader/Post Hole Digger	58.06	59.19

SHIFT DIFFERENTIAL:

A 15% premium on all hours paid, including overtime hours for 2nd, 3rd shifts on all government mandated off-shift work

An additional 20% to wage when required to wear protective equipment on hazardous/toxic waste projects. Operators required to use two buckets pouring concrete on other than road pavement shall receive \$0.50 per hour over scale. Engineers operating cranes with booms 100 feet but less than 149 feet in length will be paid an additional \$2.00 per hour. Engineers operating cranes with booms 149 feet or over in length will be paid an additional \$3.00 per hour. Operators of shovels with a capacity over (4) cubic yards shall be paid an additional \$1.00 per hour. Operators of loaders with a capacity over (5) cubic yards shall be paid an additional \$0.50 per hour.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker:

\$ 33.75 up to 40 hours	\$ 34.85 up to 40 hours
After 40 hours	After 40 hours
\$24.50 plus \$1.25 on all hours worked	\$25.55 plus \$1.25 on all hours worked

OVERTIME PAY

See (D, O, *U, V) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE

Overtime: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE

* Note: For Holiday codes 5 & 6, code U applies. For Holiday codes 8, 15, 25, 26, code R applies.

Note: If employees are required to work on Easter Sunday, they shall be paid at the rate of triple time.

REGISTERED APPRENTICES

(1)year terms at the following rates:

1st term	\$ 29.63	\$ 30.21
2nd term	35.56	36.25
3rd term	41.48	42.30
4th term	47.41	48.34

Supplemental Benefits per hour:

All terms	\$ 25.70	\$ 26.85
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8-137Tun

Operating Engineer - Marine Dredging

12/01/2023

JOB DESCRIPTION Operating Engineer - Marine Dredging

DISTRICT 4

ENTIRE COUNTIES

Albany, Bronx, Cayuga, Clinton, Columbia, Dutchess, Essex, Franklin, Greene, Jefferson, Kings, Monroe, Nassau, New York, Orange, Oswego, Putnam, Queens, Rensselaer, Richmond, Rockland, St. Lawrence, Suffolk, Ulster, Washington, Wayne, Westchester

WAGES

These wages do not apply to Operating Engineers on land based construction projects. For those projects, please see the Operating Engineer Heavy/Highway Rates. The wage rates below for all equipment and operators are only for marine dredging work in navigable waters found in the counties listed above.

Per Hour:	07/01/2023	10/01/2023
CLASS A1 Deck Captain, Leverman Mechanical Dredge Operator Licensed Tug Operator 1000HP or more.	\$ 43.94	\$ 45.26
CLASS A2 Crane Operator (360 swing)	39.16	40.33
CLASS B Dozer, Front Loader Operator on Land	To conform to Operating Engineer Prevailing Wage in locality where work is being performed including benefits.	
CLASS B1 Derrick Operator (180 swing) Spider/Spill Barge Operator Operator II, Fill Placer, Engineer, Chief Mate, Electrician, Chief Welder, Maintenance Engineer Licensed Boat, Crew Boat Operator	38.00	39.14
CLASS B2 Certified Welder	35.77	36.84
CLASS C1 Drag Barge Operator, Steward, Mate, Assistant Fill Placer	34.79	35.83
CLASS C2 Boat Operator	33.67	34.68
CLASS D Shoreman, Deckhand, Oiler, Rodman, Scowman, Cook, Messman, Porter/Janitor	27.97	28.81

SUPPLEMENTAL BENEFITS

Per Hour:

THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

All Classes A & B	\$ 11.85 plus 6% of straight time	\$ 12.00 plus 6% of straight time
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	wage, Overtime hours add \$ 0.63	wage, Overtime hours add \$ 0.63
All Class C	\$ 11.60 plus 6% of straight time wage, Overtime hours add \$ 0.50	\$ 11.75 plus 6% of straight time wage, Overtime hours add \$ 0.50
All Class D	\$ 11.35 plus 6% of straight time wage, Overtime hours add \$ 0.38	\$ 11.60 plus 6% of straight time wage, Overtime hours add \$ 0.50

OVERTIME PAY

See (B2, F, R) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 15, 26) on HOLIDAY PAGE

4-25a-MarDredge

Operating Engineer - Survey Crew - Consulting Engineer **12/01/2023**

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer **DISTRICT 9**

ENTIRE COUNTIES

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

PARTIAL COUNTIES

Dutchess: That part in Dutchess County lying South of the North City line of Poughkeepsie.

WAGES

Feasibility and preliminary design surveying, any line and grade surveying for inspection or supervision of construction.

Per hour: 07/01/2023
 Survey Classifications

Party Chief	\$ 47.15
Instrument Man	39.30
Rodman	34.35

SUPPLEMENTAL BENEFITS

Per Hour:

All Crew Members: \$ 23.15

OVERTIME PAY

OVERTIME:.... See (B, E*, Q, V) ON OVERTIME PAGE.

*Double-time paid on the 9th hour on Saturday.

HOLIDAY

Paid: See (5, 6, 7, 11, 16) on HOLIDAY PAGE
 Overtime: See (5, 6, 7, 11, 16) on HOLIDAY PAGE

9-15dconsult

Painter **12/01/2023**

JOB DESCRIPTION Painter **DISTRICT 8**

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2023

Brush \$ 51.70*

Abatement/Removal of lead based
 or lead containing paint on
 materials to be repainted. 51.70*

Spray & Scaffold	\$ 54.70*
Fire Escape	54.70*
Decorator	54.70*
Paperhanger/Wall Coverer	54.48*

*Subtract \$ 0.10 to calculate premium rate.

SUPPLEMENTAL BENEFITS

Per hour:

Paperhanger	\$ 34.60
All others	32.73
Premium	36.70**

**Applies only to "All others" category, not paperhanger journeyworker.

OVERTIME PAY

See (A, H) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

One (1) year terms at the following wage rate.

Per hour:	07/01/2023
Appr 1st term...	\$ 19.95*
Appr 2nd term...	25.56*
Appr 3rd term...	31.05*
Appr 4th term...	41.62*

*Subtract \$ 0.10 to calculate premium rate.

Supplemental benefits:

Per Hour:

Appr 1st term...	\$ 16.06
Appr 2nd term...	19.95
Appr 3rd term...	23.02
Appr 4th term...	29.16

8-NYDC9-B/S

Painter

12/01/2023

JOB DESCRIPTION Painter

DISTRICT 8

ENTIRE COUNTIES

Putnam, Suffolk, Westchester

PARTIAL COUNTIES

Nassau: All of Nassau except the areas described below: Atlantic Beach, Ceaderhurst, East Rockaway, Gibson, Hewlett, Hewlett Bay, Hewlett Neck, Hewlett Park, Inwood, Lawrence, Lido Beach, Long Beach, parts of Lynbrook, parts of Oceanside, parts of Valley Stream, and Woodmere. Starting on the South side of Sunrise Hwy in Valley Stream running east to Windsor and Rockaway Ave., Rockville Centre is the boundary line up to Lawson Blvd. turn right going west all the above territory. Starting at Union Turnpike and Lakeville Rd. going north to Northern Blvd. the west side of Lakeville road to Northern blvd. At Northern blvd. going east the district north of Northern blvd. to Port Washington Blvd. West of Port Washington blvd.to St.Francis Hospital then north of first traffic light to Port Washington and Sands Point, Manor HAven, Harbour Acres.

WAGES

Per hour:	07/01/2023
Drywall Taper	\$ 51.45*

*Subtract \$ 0.10 to calculate premium rate.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman	\$ 30.88
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OVERTIME PAY

See (A, H) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

Wages - Per Hour:

1500 hour terms at the following wage rate:

1st term	\$ 19.95*
2nd term	25.56*
3rd term	31.00*
4th term	41.52*

*Subtract \$ 0.10 to calculate premium rate.

Supplemental Benefits - Per hour:

One year term (1500 hours) at the following dollar amount.

1st year	\$ 15.22
2nd year	18.90
3rd year	21.81
4th year	27.58

8-NYDCT9-DWT

Painter - Bridge & Structural Steel

12/01/2023

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:	07/01/2023	10/01/2023
	\$ 54.50	\$ 56.00
	+ 10.10*	+ 10.35*

ADDITIONAL \$6.50 per hour for POWER TOOL/SPRAY, whether straight time or overtime.

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

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (no cap).

NOTE: Generally, for Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

SHIFT WORK:

When directly specified in public agency or authority contract documents for an employer to work a second shift and works the second shift with employees other than from the first shift, all employees who work the second shift will be paid 10% of the base wage shift differential in lieu of overtime for the first eight (8) hours worked after which the employees shall be paid at time and one half of the regular wage rate. When a single irregular work shift is mandated in the job specifications or by the contracting agency, wages shall be paid at time and one half for single shifts between the hours of 3pm-11pm or 11pm-7am.

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyworker:	\$ 11.78	\$ 12.43
	+ 30.85*	+ 31.55*

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (no cap).

OVERTIME PAY

See (B, F, R) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wage - Per hour:

Apprentices: (1) year terms.

1st year	\$ 21.80 + 4.04	\$ 22.40 + 4.14
2nd year	\$ 32.70 + 6.06	\$ 33.60 + 6.21
3rd year	\$ 43.60 + 8.08	\$ 44.80 + 8.28
Supplemental Benefits - Per hour:		
1st year	\$.90 + 12.34	\$ 1.16 + 12.62
2nd year	\$ 7.07 + 18.51	\$ 7.46 + 18.93
3rd year	\$ 9.42 + 24.68	\$ 9.94 + 25.24

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

8-DC-9/806/155-BrSS

Painter - Line Striping

12/01/2023

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:

Painter (Striping-Highway):	07/01/2023	01/01/2024	07/01/2024
Striping-Machine Operator*	\$ 31.53	\$ 31.53	\$ 34.12
Linerman Thermoplastic	38.34	38.34	41.12

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.

NOTE - The "Employer Registration" (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30,2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per hour paid:

Journeyworker:

Striping Machine Operator:	\$ 10.03	\$ 22.24	\$ 23.65
Linerman Thermoplastic:	10.03	22.24	23.65

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:

1st Term:	\$ 15.00	\$ 15.00	\$ 15.00
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2nd Term:	18.92	18.92	20.47
3rd Term:	25.22	25.22	27.30

Supplemental Benefits per hour:

1st term:	\$ 9.16	\$ 22.24	\$ 23.65
2nd Term:	10.03	22.24	23.65
3rd Term:	10.03	22.24	23.65

8-1456-LS

Painter - Metal Polisher

12/01/2023

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

07/01/2023

Metal Polisher	\$ 38.18
Metal Polisher*	39.28
Metal Polisher**	42.18

*Note: Applies on New Construction & complete renovation

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

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2023

Journeyworker:

All classification \$ 12.34

OVERTIME PAY

See (B, E, P, T) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

Overtime: See (5, 6, 9, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

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

07/01/2023

1st year	\$ 16.00
2nd year	17.00
3rd year	18.00

1st year*	\$ 16.39
2nd year*	17.44
3rd year*	18.54

1st year**	\$ 18.50
2nd year**	19.50
3rd year**	20.50

*Note: Applies on New Construction & complete renovation

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

Supplemental benefits:

Per hour:

1st year	\$ 8.69
2nd year	8.69
3rd year	8.69

8-8A/28A-MP

Plumber **12/01/2023**

JOB DESCRIPTION Plumber **DISTRICT 8**

ENTIRE COUNTIES
Putnam, Westchester

WAGES

Per hour: 07/01/2023

Plumber and Steamfitter \$ 62.36

SHIFT WORK:

When directly specified in public agency or authority contract documents, shift work outside the regular hours of work shall be comprised of eight (8) hours per shift not including Saturday, Sundays and holidays. One half (1/2) hour shall be allowed for lunch after the first four (4) hours of each shift. Wage and Fringes for shift work shall be straight time plus a shift premium of twenty-five (25%) percent. A minimum of five days Monday through Friday must be worked to establish shift work.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker \$ 41.51

OVERTIME PAY

See (B, E, E2, Q, V) on OVERTIME PAGE
OVERTIME:... See on OVERTIME PAGE.

HOLIDAY

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

REGISTERED APPRENTICES

(1)year terms at the following wages:

1st Term \$ 23.20
2nd Term 26.61
3rd Term 30.74
4th Term 43.81
5th Term 46.99

Supplemental Benefits per hour:

1st term \$ 17.12
2nd term 19.12
3rd term 22.74
4th term 30.02
5th term 31.82

8-21.1-ST

Plumber - HVAC / Service **12/01/2023**

JOB DESCRIPTION Plumber - HVAC / Service **DISTRICT 8**

ENTIRE COUNTIES
Dutchess, Putnam, Westchester

PARTIAL COUNTIES

Delaware: Only the townships of Middletown and Roxbury
Ulster: Entire County(including Wallkill and Shawangunk Prisons) except for remainder of Town of Shawangunk and Towns of Plattekill, Marlboro, and Wawarsing.

WAGES

Per hour: 07/01/2023

HVAC Service \$ 42.68
+ \$ 4.37*

*Note: This portion of wage is not subject to overtime premium.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker HVAC Service \$ 28.99

OVERTIME PAY

See (B, F, R) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

HVAC SERVICE

(1)year terms at the following wages:

1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.
\$ 19.32	\$ 22.91	\$ 28.56	\$ 35.13	\$ 38.15
+\$2.39*	+\$2.70*	+\$3.25*	+\$3.88*	+\$4.12*

*Note: This portion of wage is not subject to overtime premium.

Supplemental Benefits per hour:

Apprentices	07/01/2023
1st term	\$ 20.84
2nd term	22.28
3rd term	23.85
4th term	26.01
5th term	27.55

8-21.1&2-SF/Re/AC

Plumber - Jobbing & Alterations

12/01/2023

JOB DESCRIPTION Plumber - Jobbing & Alterations

DISTRICT 8

ENTIRE COUNTIES

Dutchess, Putnam, Westchester

PARTIAL COUNTIES

Ulster: Entire county (including Walkill and Shawangunk Prisons in Town of Shawangunk) EXCEPT for remainder of Town of Shawangunk, and Towns of Plattekill, Marlboro, and Wawarsing.

WAGES

Per hour: 07/01/2023
Journeyworker: \$ 48.51

Repairs, replacements and alteration work is any repair or replacement of a present plumbing system that does not change existing roughing or water supply lines.

SHIFT WORK:

When directly specified in public agency or authority contract documents, shift work outside the regular hours of work shall be comprised of eight (8) hours per shift not including Saturday, Sundays and holidays. One half (1/2) hour shall be allowed for lunch after the first four (4) hours of each shift. Wage and Fringes for shift work shall be straight time plus a shift premium of twenty-five (25%) percent. A minimum of five days Monday through Friday must be worked to establish shift work.

SUPPLEMENTAL BENEFITS

Per hour:
Journeyworker
\$ 34.76

OVERTIME PAY

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

*When used as a make-up day, hours after 8 on Saturday shall be paid at time and one half.

HOLIDAY

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

REGISTERED APPRENTICES

(1) year terms at the following wages:

1st year	\$ 20.92
2nd year	23.24
3rd year	25.29

4th year	35.48
5th year	37.49

Supplemental Benefits per hour:

1st year	\$ 11.45
2nd year	13.46
3rd year	17.51
4th year	23.67
5th year	25.68

8-21.3-J&A

Roofer **12/01/2023**

JOB DESCRIPTION Roofer **DISTRICT 9**

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

WAGES

Per Hour:	07/01/2023	05/01/2024
		Additional
Roofer/Waterproofer	\$ 46.50	\$2.50
	+ \$7.00*	

* This portion is not subjected to overtime premiums.

Note: Abatement/Removal of Asbestos containing roofs and roofing material is classified as Roofer.

SUPPLEMENTAL BENEFITS

Per Hour:	\$ 31.37
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OVERTIME PAY

See (B, H) on OVERTIME PAGE

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

HOLIDAY

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

REGISTERED APPRENTICES

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

	1st	2nd	3rd	4th
	\$ 16.28	\$ 23.25	\$ 27.90	\$ 34.88
		+ 3.50*	+ 4.20*	+ 5.26*
Supplements:				
	1st	2nd	3rd	4th
	\$ 4.03	\$ 15.85	\$ 18.95	\$ 23.61

* This portion is not subjected to overtime premiums.

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

	1st	2nd	3rd	4th	5th
	\$ 17.67	\$ 20.93	\$ 23.25	\$ 27.90	\$ 34.88
		+ 3.16*	+ 3.50*	+ 4.20*	+ 5.26
Supplements:					
	1st	2nd	3rd	4th	5th
	\$ 7.61	\$ 14.29	\$ 15.85	\$ 18.95	\$ 23.61

* This portion is not subjected to overtime premiums.

9-8R

Sheetmetal Worker **12/01/2023**

JOB DESCRIPTION Sheetmetal Worker **DISTRICT 8**

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

WAGES

	07/01/2023
SheetMetal Worker	\$ 47.00
	+ 3.60*

*This portion is not subject to overtime premiums.

SHIFT WORK

For all NYS D.O.T. and other Governmental mandated off-shift work:
 10% increase for additional shifts for a minimum of five (5) days

SUPPLEMENTAL BENEFITS

Journeyworker \$ 45.62

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
\$ 17.50	\$ 19.67	\$ 21.87	\$ 24.05	\$ 26.24	\$ 28.44	\$ 31.10	\$ 33.75
+ 1.44*	+ 1.62*	+ 1.80*	+ 1.98*	+ 2.16*	+ 2.34*	+ 2.52*	+ 2.70*

*This portion is not subject to overtime premiums.

Supplemental Benefits per hour:

Apprentices

1st term	\$ 19.53
2nd term	21.99
3rd term	24.42
4th term	26.88
5th term	29.32
6th term	31.75
7th term	33.72
8th term	35.71

8-38

Sheetmetal Worker 12/01/2023

JOB DESCRIPTION Sheetmetal Worker

DISTRICT 4

ENTIRE COUNTIES

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

WAGES

Per Hour: 07/01/2023

Sign Erector \$ 56.00

NOTE: Structurally Supported Overhead Highway Signs(See STRUCTURAL IRON WORKER CLASS)

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2023

Sign Erector \$ 55.66

OVERTIME PAY

See (A, F, S) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 10, 11, 12, 16, 25) on HOLIDAY PAGE
 Overtime: See (5, 6, 10, 11, 12, 16, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES

Per Hour:
 6 month Terms at the following percentage of Sign Erectors wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
35%	40%	45%	50%	55%	60%	65%	70%	75%	80%

SUPPLEMENTAL BENEFITS

Per Hour:

07/01/2023	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
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\$ 14.95 \$ 16.95 \$ 18.93 \$ 20.93 \$ 28.56 \$ 31.05 \$ 33.57 \$ 36.05 \$ 38.56 \$ 41.05

4-137-SE

Sprinkler Fitter **12/01/2023**

JOB DESCRIPTION Sprinkler Fitter

DISTRICT 1

ENTIRE COUNTIES

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

WAGES

Per hour 07/01/2023

Sprinkler \$ 50.86
 Fitter

SUPPLEMENTAL BENEFITS

Per hour

Journey person \$ 30.19

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
\$ 24.77	\$ 27.53	\$ 30.03	\$ 32.78	\$ 35.53	\$ 38.29	\$ 41.04	\$ 43.79	\$ 46.54	\$ 49.30

Supplemental Benefits per hour

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$ 8.74	\$ 8.74	\$ 20.32	\$ 20.32	\$ 20.57	\$ 20.57	\$ 20.57	\$ 20.57	\$ 20.57	\$ 20.57 1-669.2

Teamster - Building / Heavy&Highway **12/01/2023**

JOB DESCRIPTION Teamster - Building / Heavy&Highway

DISTRICT 8

ENTIRE COUNTIES

Putnam, Westchester

WAGES

GROUP A: Straight Trucks (6-wheeler and 10-wheeler), A-frame, Winch, Dynamite Seeding, Mulching, Agitator, Water, Attenuator, Light Towers, Cement (all types), Suburban, Station Wagons, Cars, Pick Ups, any vehicle carrying materials of any kind.

GROUP AA: Tack Coat

GROUP B: Tractor & Trailers (all types).

GROUP BB: Tri-Axle, 14 Wheeler

GROUP C: Low Boy (carrying equipment).

GROUP D: Fuel Trucks, Tire Trucks.

GROUP E: Off-road Equipment (over 40 tons): Athey Wagons, Belly Dumps, Articulated Dumps, Trailer Wagons.

GROUP F: Off-road Equipment (over 40 tons) Euclid, DJB.

GROUP G: Off-road Equipment (under 40 tons) Athey Wagons, Belly Articulated Dumps, Trailer Wagons.

GROUP H: Off-road Equipment (under 40 tons), Euclid.

GROUP HH: Off-road Equipment (under 40 tons) D.J.B.

GROUP I: Off-road Equipment (under 40 tons) Darts.

GROUP II: Off-road Equipment (under 40 tons) RXS.

WAGES:(per hour)

07/01/2023

GROUP A \$ 46.86*

GROUP AA	49.86*
GROUP B	47.48*
GROUP BB	46.98*
GROUP C	49.61*
GROUP D	47.31*
GROUP E	47.86*
GROUP F	48.86*
GROUP G	47.61*
GROUP H	48.23*
GROUP HH	48.61*
GROUP I	48.36*
GROUP II	48.73*

* To calculate premium wage, subtract \$.10 from the hourly wage.

Note: Fuel truck operators on construction sites addit. \$5.00 per day.
 For work on hazardous/toxic waste site addit. 20% of hourly rate.

Shift Differential: When mandated by the contracting agency, DOT, or any governmental agency contracts shall receive a shift differential of fifteen (15%) above the wage rate.

NOTE: The Employer Registration (30.1) use of a '4 Day/10 Hour Work schedules' will no longer be accepted or processed. All registered projects prior to June 30,2023 will expire within the granted time frame.

For Pre-Registered Projects Four (4), Ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. Tuesday thru Friday may be worked with no make-up day. For further clarification contact your local Bureau Office.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker

First 40 hours	\$ 35.58
41st-45th hours	15.73
Over 45 hours	1.60

OVERTIME PAY

See (B, E, P, R) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6, 8, 9, 15, 25) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 9, 15, 25) on HOLIDAY PAGE

8-456

Welder **12/01/2023**

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 07/01/2023

Welder: To be paid the same rate of the mechanic performing the work.*

*EXCEPTION: If a specific welder certification is required, then the 'Certified Welder' rate in that trade tag will be paid.

OVERTIME PAY

HOLIDAY

1-As Per Trade

Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

NOTE: Supplemental Benefits are 'Per hour worked' (for each hour worked) unless otherwise noted

- (AA) Time and one half of the hourly rate after 7 and one half hours per day
- (A) Time and one half of the hourly rate after 7 hours per day
- (B) Time and one half of the hourly rate after 8 hours per day
- (B1) Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday.
Double the hourly rate for all additional hours
- (B2) Time and one half of the hourly rate after 40 hours per week
- (C) Double the hourly rate after 7 hours per day
- (C1) Double the hourly rate after 7 and one half hours per day
- (D) Double the hourly rate after 8 hours per day
- (D1) Double the hourly rate after 9 hours per day
- (E) Time and one half of the hourly rate on Saturday
- (E1) Time and one half 1st 4 hours on Saturday; Double the hourly rate all additional Saturday hours
- (E2) Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
- (E3) Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
- (E4) Saturday and Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
- (E5) Double time after 8 hours on Saturdays
- (F) Time and one half of the hourly rate on Saturday and Sunday
- (G) Time and one half of the hourly rate on Saturday and Holidays
- (H) Time and one half of the hourly rate on Saturday, Sunday, and Holidays
- (I) Time and one half of the hourly rate on Sunday
- (J) Time and one half of the hourly rate on Sunday and Holidays
- (K) Time and one half of the hourly rate on Holidays
- (L) Double the hourly rate on Saturday
- (M) Double the hourly rate on Saturday and Sunday
- (N) Double the hourly rate on Saturday and Holidays
- (O) Double the hourly rate on Saturday, Sunday, and Holidays
- (P) Double the hourly rate on Sunday
- (Q) Double the hourly rate on Sunday and Holidays
- (R) Double the hourly rate on Holidays
- (S) Two and one half times the hourly rate for Holidays

- (S1) Two and one half times the hourly rate the first 8 hours on Sunday or Holidays One and one half times the hourly rate all additional hours.
- (T) Triple the hourly rate for Holidays
- (U) Four times the hourly rate for Holidays
- (V) Including benefits at SAME PREMIUM as shown for overtime
- (W) Time and one half for benefits on all overtime hours.
- (X) Benefits payable on Paid Holiday at straight time. If worked, additional benefit amount will be required for worked hours. (Refer to other codes listed.)

Holiday Codes

PAID Holidays:

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

- (1) None
- (2) Labor Day
- (3) Memorial Day and Labor Day
- (4) Memorial Day and July 4th
- (5) Memorial Day, July 4th, and Labor Day
- (6) New Year's, Thanksgiving, and Christmas
- (7) Lincoln's Birthday, Washington's Birthday, and Veterans Day
- (8) Good Friday
- (9) Lincoln's Birthday
- (10) Washington's Birthday
- (11) Columbus Day
- (12) Election Day
- (13) Presidential Election Day
- (14) 1/2 Day on Presidential Election Day
- (15) Veterans Day
- (16) Day after Thanksgiving
- (17) July 4th
- (18) 1/2 Day before Christmas
- (19) 1/2 Day before New 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 where WCB is listed as the "Agency", please call 1-866-546-9322

NYSDOL Bureau of Public Work Debarment List 12/22/2023

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	*****4018	ADIRONDACK BUILDING RESTORATION INC.		4156 WILSON ROAD EAST TABERG NY 13471	03/26/2019	03/26/2024
DOL	AG	*****1812	ADVANCED BUILDERS & LAND DEVELOPMENT, INC.		400 OSER AVE #2300HAUPPAUGE NY 11788	09/11/2019	09/11/2024
DOL	DOL	*****1687	ADVANCED SAFETY SPRINKLER INC		261 MILL ROAD P.O BOX 296EAST AURORA NY 14052	05/29/2019	05/29/2024
DOL	NYC		ALL COUNTY SEWER & DRAIN, INC.		7 GREENFIELD DR WARWICK NY 10990	03/25/2022	03/25/2027
DOL	NYC		AMJED PARVEZ		401 HANOVER AVENUE STATEN ISLAND NY 10304	01/11/2021	01/11/2026
DOL	DOL		ANGELO F COKER		2610 SOUTH SALINA STREET SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		ANGELO GARCIA		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL		ANGELO TONDO		449 WEST MOMBASHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL		ANITA SALERNO		158 SOLAR ST SYRACUSE NY 13204	01/07/2019	01/07/2024
DOL	DOL	*****4231	ANKER'S ELECTRIC SERVICE, INC.		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	NYC		ARADCO CONSTRUCTION CORP		115-46 132RD ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	DOL		ARNOLD A. PAOLINI		1250 BROADWAY ST BUFFALO NY 14212	02/03/2020	02/03/2025
DOL	NYC		ARSHAD MEHMOOD		168-42 88TH AVENUE JAMAICA NY 11432	11/20/2019	11/20/2024
DOL	NYC		AVM CONSTRUCTION CORP		117-72 123RD ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC		AZIDABEGUM		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	DOL	*****8421	B & B DRYWALL, INC		206 WARREN AVE APT 1WHITE PLAINS NY 10603	12/14/2021	12/14/2026
DOL	NYC		BALWINDER SINGH		421 HUDSON ST SUITE C5NEW YORK NY 10014	02/20/2019	02/20/2024
DOL	NYC	*****8416	BEAM CONSTRUCTION, INC.		50 MAIN ST WHITE PLAINS NY 10606	01/04/2019	01/04/2024
DOL	DOL		BERNARD BEGLEY		38 LONG RIDGE ROAD BEDFORD NY 10506	12/18/2019	12/18/2024
DOL	NYC	*****2113	BHW CONTRACTING, INC.		401 HANOVER AVENUE STATEN ISLAND NY 10304	01/11/2021	01/11/2026
DOL	DOL	*****3627	BJB CONSTRUCTION CORP.		38 LONG RIDGE ROAD BEDFORD NY 10506	12/18/2019	12/18/2024
DOL	DOL	*****5078	BLACK RIVER TREE REMOVAL, LLC		29807 ANDREWS ROAD BLACK RIVER NY 13032	10/17/2023	10/17/2028
DOL	DOL	*****4512	BOB BRUNO EXCAVATING, INC		5 MORNINGSIDE DR AUBURN NY 13021	05/28/2019	05/28/2024
DOL	DOL		BOGDAN MARKOVSKI		370 W. PLEASANTVIEW AVE SUITE 2.329HACKENSACK NJ 07601	02/11/2019	02/11/2024
DOL	DOL		BRADLEY J SCHUKA		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	DOL	*****9383	C.C. PAVING AND EXCAVATING, INC.		2610 SOUTH SALINA ST SUITE 12SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL	*****4083	C.P.D. ENTERPRISES, INC		P.O BOX 281 WALDEN NY 12586	03/03/2020	03/03/2025
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	NYC		CALVIN WALTERS		465 EAST THIRD ST MT. VERNON NY 10550	09/09/2019	09/09/2024
DOL	DOL	*****4155	CASA BUILDERS, INC.	FRIEDLANDER CONSTRUCTION	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

NYSDOL Bureau of Public Work Debarment List 12/22/2023

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DOL	DOL	*****0026	CHANTICLEER CONSTRUCTION LLC		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	NYC	*****2117	CHARAN ELECTRICAL ENTERPRISES		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	NYC		CHARLES ZAHRAKKA		863 WASHINGTON STREET FRANKLIN SQUARE NY 11010	03/10/2020	03/10/2025
DOL	DOL		CHRISTOPHER GRECO		26 NORTH MYRTLE AVENUE SPRING VALLEY NY 10956	02/18/2021	02/18/2026
DOL	DOL		CHRISTOPHER PAPASTEFANOU A/K/A CHRIS PAPASTEFANOU		1445 COMMERCE AVE BRONX NY 10461	05/30/2019	05/30/2024
DOL	DOL		CRAIG JOHANSEN		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL	*****3228	CROSS-COUNTY LANDSCAPING AND TREE SERVICE, INC.	ROCKLAND TREE SERVICE	26 NORTH MYRTLE AVENUE SPRING VALLEY NY 10956	02/18/2021	02/18/2026
DOL	DOL	*****2524	CSI ELECTRICAL & MECHANICAL INC		42-32 235TH ST DOUGLSTON NY 11363	01/14/2019	01/14/2024
DOL	DOL	*****7619	DANCO CONSTRUCTION UNLIMITED INC.		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026
DOL	DOL		DANIEL ROBERT MCNALLY		7 GREENFIELD DRIVE WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL		DARIAN L COKER		2610 SOUTH SALINA ST SUITE 2CSYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		DAVID FRIEDLANDER		64 NORTH PUTT CORNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	NYC		DAVID WEINER		14 NEW DROP LANE 2ND FLOORSTATEN ISLAND NY 10306	11/14/2019	11/14/2024
DOL	DOL		DELPHI PAINTING & DECORATING CO INC		1445 COMMERCE AVE BRONX NY 10461	05/30/2019	05/30/2024
DOL	DOL		DINA TAYLOR		64 N PUTT CONNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	DOL	*****5175	EAGLE MECHANICAL AND GENERAL CONSTRUCTION LLC		11371 RIDGE RD WOLCOTT NY 14590	02/03/2020	02/03/2025
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	*****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	NYC	*****5917	EPOCH ELECTRICAL, INC		97-18 50TH AVE CORONA NY 11368	04/19/2018	04/19/2024
DOL	DOL		FAIGY LOWINGER		11 MOUNTAIN RD 28 VAN BUREN DRMONROE NY 10950	03/20/2019	03/20/2024
DOL	DA		FREDERICK HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	NYC	*****6616	G & G MECHANICAL ENTERPRISES, LLC.		1936 HEMPSTEAD TURNPIKE EAST MEDOW NY 11554	11/29/2019	11/29/2024
DOL	DOL		GABRIEL FRASSETTI			04/10/2019	04/10/2024
DOL	NYC		GAYATRI MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DA		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	DOL		GIGI SCHNECKENBURGER		261 MILL RD EAST AURORA NY 14052	05/29/2019	05/29/2024
DOL	DA		GIOVANNA TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA	*****0213	GORILLA CONTRACTING GROUP, LLC		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DOL		HANS RATH		24 ELDOR AVENUE NEW CITY NY 10956	02/03/2020	02/03/2025
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		IRENE KASELIS		32 PENNINGTON AVE WALDWICK NJ 07463	05/30/2019	05/30/2024
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

NYSDOL Bureau of Public Work Debarment List 12/22/2023

Article 8

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	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	10/25/2022	10/25/2027
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		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	NYC		JENNIFER GUERRERO		1936 HEMPSTEAD TURNPIKE EAST MEADOW NY 11554	11/29/2019	11/29/2024
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 GOCEK		14B COMMERCIAL AVE ALBANY NY 12065	11/14/2019	11/14/2024
DOL	DOL		JOHN MARKOVIC		47 MANDON TERRACE HAWTHORN NJ 07506	03/29/2021	03/29/2026
DOL	DOL		JOHN WASE		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		JON E DEYOUNG		261 MILL RD P.O BOX 296EAST AURORA NY 14052	05/29/2019	05/29/2024
DOL	DOL		JORGE RAMOS		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
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
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027

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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		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		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL		KARIN MANGIN		796 PHELPS ROAD FRANKLIN LAKES NJ 07417	12/01/2020	12/01/2025
DOL	DOL		KATE E. CONNOR		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL	*****2959	KELC DEVELOPMENT, INC		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL		KIMBERLY F. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
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	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	AG	*****3291	LINTECH ELECTRIC, INC.		3006 TILDEN AVE BROOKLYN NY 11226	02/16/2022	02/16/2027
DOL	DOL		LOUIS A. CALICCHIA		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	NYC		LUBOMIR PETER SVOBODA		27 HOUSMAN AVE STATEN ISLAND NY 10303	12/26/2019	12/26/2024
DOL	NYC		M & L STEEL & ORNAMENTAL IRON CORP.		27 HOUSMAN AVE STATEN ISLAND NY 10303	12/26/2019	12/26/2024
DOL	DOL	*****2196	MAINSTREAM SPECIALTIES, INC.		11 OLD TOWN RD SELKIRK NY 12158	02/02/2021	02/02/2026
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	NYC		MAREK FABIJANOWSKI		50 MAIN ST WHITE PLAINS NY 10606	01/04/2019	01/04/2024
DOL	NYC		MARIA NUBILE		84-22 GRAND AVENUE ELMHURST NY 11373	03/10/2020	03/10/2025
DOL	DOL		MATTHEW P. KILGORE		4156 WILSON ROAD EAST TABERG NY 13471	03/26/2019	03/26/2024
DOL	DOL	*****4829	MILESTONE ENVIRONMENTAL CORPORATION		704 GINESI DRIVE SUITE 29MORGANVILLE NJ 07751	04/10/2019	04/10/2024
DOL	NYC	*****9926	MILLENNIUM FIRE PROTECTION, LLC		325 W. 38TH STREET SUITE 204NEW YORK NY 10018	11/14/2019	11/14/2024
DOL	NYC	*****0627	MILLENNIUM FIRE SERVICES, LLC		14 NEW DROP LNE 2ND FLOORSTATEN ISLAND NY 10306	11/14/2019	11/14/2024
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	NYC		MUHAMMED A. HASHEM		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	NYC		NAMOW, INC.		84-22 GRAND AVENUE ELMHURST NY 11373	03/10/2020	03/10/2025
DOL	DOL	*****7790	NATIONAL BUILDING & RESTORATION CORP		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****1797	NATIONAL CONSTRUCTION SERVICES, INC		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028

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DOL	NYC		NAVIT SINGH		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
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	****7429	NICOLAE I. BARBIR	BESTUCCO CONSTRUCTI ON, INC.	444 SCHANTZ ROAD ALLENTOWN PA 18104	09/17/2020	09/17/2025
DOL	NYC	****5643	NYC LINE CONTRACTORS, INC.		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		PAULINE CHAHALES		935 S LAKE BLVD MAHOPAC NY 10541	03/02/2021	03/02/2026
DOL	DOL		PETER STEVENS		11 OLD TOWN ROAD SELKIRK NY 12158	02/02/2021	02/02/2026
DOL	DOL		PETER STEVENS		8269 21ST ST BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	DOL	****0466	PRECISION BUILT FENCES, INC.		1617 MAIN ST PEEKSKILL NY 10566	03/03/2020	03/03/2025
DOL	NYC		RASHEL CONSTRUCTION CORP		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	DOL	****1068	RATH MECHANICAL CONTRACTORS, INC.		24 ELDOR AVENUE NEW CITY NY 10956	02/03/2020	02/03/2025
DOL	DOL	****2633	RAW POWER ELECTRIC CORP.		3 PARK CIRCLE MIDDLETOWN NY 10940	07/11/2022	07/11/2027
DOL	DA	****7559	REGAL CONTRACTING INC.		24 WOODBINE AVE NORTHPORT NY 11768	10/01/2020	10/01/2025
DOL	DOL		RICHARD REGGIO		1617 MAIN ST PEEKSKILL NY 10566	03/03/2020	03/03/2025
DOL	DOL		ROBBYE BISSE SAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROBERT A. VALERINO		3841 LANYARD COURT NEW PORT RICHEY FL 34652	07/09/2019	07/09/2024
DOL	DOL		ROBERT BRUNO		5 MORNINGSIDE DRIVE AUBURN NY 13021	05/28/2019	05/28/2024
DOL	DOL		ROMEO WARREN		161 ROBYN RD MONROE NY 10950	07/11/2022	07/11/2027
DOL	DOL		RONALD MESSEN		14B COMMERCIAL AVE ALBANY NY 12065	11/14/2019	11/14/2024
DOL	DOL	****7172	RZ & AL INC.		198 RIDGE AVENUE VALLEY STREAM NY 11581	06/06/2022	06/06/2027
DOL	DOL	****1365	S & L PAINTING, INC.		11 MOUNTAIN ROAD P.O BOX 408MONROE NY 10950	03/20/2019	03/20/2024
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	NYC	****0349	SAM WATERPROOFING INC		168-42 88TH AVENUE APT.1 AJAMAICA NY 11432	11/20/2019	11/20/2024
DOL	DA	****0476	SAMCO ELECTRIC CORP.		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	NYC	****1130	SCANA CONSTRUCTION CORP.		863 WASHINGTON STREET FRANKLIN SQUARE NY 11010	03/10/2020	03/10/2025
DOL	DOL	****2045	SCOTT DUFFIE	DUFFIE'S ELECTRIC, INC.	P.O BOX 111 CORNWALL NY 12518	03/03/2020	03/03/2025
DOL	DOL		SCOTT DUFFIE		P.O BOX 111 CORNWALL NY 12518	03/03/2020	03/03/2025
DOL	NYC	****6597	SHAIRA CONSTRUCTION CORP.		421 HUDSON STREET SUITE C5NEW YORK NY 10014	02/20/2019	02/20/2024

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DOL	DOL		SHULEM LOWINGER		11 MOUNTAIN ROAD 28 VAN BUREN DRMONROE NY 10950	03/20/2019	03/20/2024
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		SOMATIE RAMSUNAHAI		115-46 132ND ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	DOL	*****2221	SOUTH BUFFALO ELECTRIC, INC.		1250 BROADWAY ST BUFFALO NY 14212	02/03/2020	02/03/2025
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	*****6844	STEAM PLANT AND CHX SYSTEMS INC.		14B COMMERCIAL AVENUE ALBANY NY 12065	11/14/2019	11/14/2024
DOL	DOL	*****9933	STEED GENERAL CONTRACTORS, INC.		1445 COMMERCE AVE BRONX NY 10461	05/30/2019	05/30/2024
DOL	DOL	*****9528	STEEL-IT, LLC.		17613 SANTE FE LINE ROAD WAYNESFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL		STEFANOS PAPASTEFANOU, JR. A/K/A STEVE PAPASTEFANOU, JR.		256 WEST SADDLE RIVER RD UPPER SADDLE RIVER NJ 07458	05/30/2019	05/30/2024
DOL	DOL	*****3800	SUBURBAN RESTORATION CO. INC.		5-10 BANTA PLACE FAIR LAWN PLACE NJ 07410	03/29/2021	03/29/2026
DOL	DOL	*****1060	SUNN ENTERPRISES GROUP, LLC		370 W. PLEASANTVIEW AVE SUITE 2.329HACKENSACK NJ 07601	02/11/2019	02/11/2024
DOL	DOL	*****9150	SURGE INC.		8269 21ST STREET BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	DOL		SYED RAZA		198 RIDGE AVENUE NY 11581	06/06/2022	06/06/2027
DOL	DOL	*****8209	SYRACUSE SCALES, INC.		158 SOLAR ST SYRACUSE NY 13204	01/07/2019	01/07/2024
DOL	DOL		TERRY THOMPSON		11371 RIDGE RD WOLCOTT NY 14590	02/03/2020	02/03/2025
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		TEST		P O BOX 123 ALBANY NY 12204	05/20/2020	05/20/2025
DOL	DOL	*****6789	TEST1000		P.O BOX 123 ALBANY NY 12044	03/01/2021	03/01/2026
DOL	DOL	*****5766	THE COKER CORPORATION	COKER CORPORATIO N	2610 SOUTH SALINA ST SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
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	*****8210	UPSTATE CONCRETE & MASONRY CONTRACTING CO INC		449 WEST MOMBASHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****6418	VALHALLA CONSTRUCTION, LLC.		796 PHLEPS ROAD FRANKLIN LAKES NJ 07417	12/01/2020	12/01/2025
DOL	NYC	*****2426	VICKRAM MANGRU	VICK CONSTRUCTI ON	21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	NYC		VICKRAM MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DOL		VICTOR ALICANTI		42-32 235TH ST DOUGLSTON NY 11363	01/14/2019	01/14/2024
DOL	DOL		VIKTORIA RATH		24 ELDOR AVENUE NEW CITY NY 10956	02/03/2020	02/03/2025
DOL	NYC	*****3673	WALTERS AND WALTERS, INC.		465 EAST AND THIRD ST MT. VERNON NY 10550	09/09/2019	09/09/2024

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DOL	DOL	*****3296	WESTERN NEW YORK CONTRACTORS, INC.		3841 LAYNARD COURT NEW PORT RICHEY FL 34652	07/09/2019	07/09/2024
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 G. PROERFRIEDT		85 SPRUCEWOOD ROAD WEST BABYLON NY 11704	01/19/2021	01/19/2026
DOL	DOL	*****5924	WILLIAM G. PROPHY, LLC	WGP CONTRACTIN G, INC.	54 PENTAQUIT AVE BAYSHORE NY 11706	01/19/2021	01/19/2026
DOL	DOL		XENOFON EFTHIMIADIS		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028