

PROJECT MANUAL

ZOELLER PUMPING STATION ELECTRIC

11580 WALDEN AVE.
ALDEN, NY 14004

DATE:
4/14/23

PROJECT #: 2021-852-01

BID DATE:
05/04/23



MARK C. POLONCARZ
COUNTY EXECUTIVE



DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER

WILLIAM E. GEARY
COMMISSIONER OF PUBLIC WORKS

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

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COUNTY OF ERIE
NOTICE TO BIDDERS
ZOELLER PUMPING STATION ELECTRIC
ECDPW PROJECT NO. (2021-852-01)

Sealed bids for Electrical work at the above County facility will be received by the County's Commissioner of Public Works in Suite 1400 of the Rath County Office Building, 95 Franklin Street, Buffalo, New York 14202 until 10:00 AM local time on May 4th, 2023; at which time they will be opened and read aloud.

The bidding documents, specifications, and drawings may be downloaded from the Erie.gov website <http://www2.erie.gov/dpw/>, ON-LINE BID RETRIEVAL, or examined at the following offices:

Erie County Department of Public Works
Office of the Commissioner
Rath County Office Building
95 Franklin Street, Suite 1400
Buffalo, NY 14202

Construction Exchange of Buffalo & WNY
2660 William Street
Cheektowaga, NY 14227
<http://www.conexbuff.com/>

Bids will not be accepted unless the bid package is downloaded directly from www.erie.gov/dpw so that contact information is captured by ECDPW for bid addenda and communication.

Each proposal must be accompanied by a Bid Bond of five percent (5%) of the amount of the bid payable unconditionally to the County of Erie.

The Contractor's attention is drawn to the provisions in the General Conditions establishing a Minority/Women Business Utilization requirement for this project. Contractors are advised that by submitting a signed and sealed bid proposal they are agreeing and committing to the WBE/MBE requirements contained in this project.

The Contractor's attention is further drawn to requirements for Contractor's participation in a New York State Certified Apprenticeship Training Program. **In addition, the Contractor shall be advised that provisions set forth by Erie County Executive Order #18 ("EO #18") may apply.**

Attention of bidders is called to the fact that if a prospective bidder is not registered as a bidder with the Office of the Commissioner of Public Works by virtue of his/her downloading of the bidding documents, then notices of contract addenda or other significant matters related to the contract proposal or bid will not be communicated to said prospective bidder.

The County of Erie reserves the right to reject any or all bids and waive any informality.

WILLIAM E. GEARY
Commissioner of Public Works
Rath County Office Building
95 Franklin Street, Suite 1400
Buffalo, NY 14202

DATED: 1/18/2023

INFORMATION FOR BIDDERS

1. THE PROJECT CONSISTS OF:

- A. Electrical Construction Work, including but not limited to,
 - a. Remove existing electrical connection to existing pump station.
 - b. Provide new electric service and distribution. Contractor to re-feed existing pump station to new distribution equipment.
 - c. Provide new diesel generator, load bank and isolation bypass switch to provide backup power for the new service.
 - d. Provide all trenching, back fill and site restoration as required to accommodate new electrical work.
 - e. Remove part of existing fencing and extend fence as indicated on drawings.
 - f. Provide new concrete walkway around new generator and load bank.

2. RECEIPT AND OPENING OF PROPOSALS

- A. Sealed bids for the project (separately submitted based on the above type of construction work) will be received by the Department of Public Works, Office of the Commissioner, 14th Floor, Rath County Office Building, 95 Franklin Street, Buffalo NY 14202 until 10:00 AM local time on Thursday, May 4th, 2023, at which time they will be publicly opened and read aloud.

3. ARCHITECT/ENGINEER

- A. For the purpose of this contract, the Architect as defined in the General Conditions, shall be Buffalo Engineering, P.C..
- B. Direct all inquiries concerning these documents to:

Name: Buffalo Engineering

Address: 4245 Union Rd. Suite 204, Buffalo, NY 14225

Phone: (716) 633-5300

Fax: (716) 633-5300

E-Mail: cad@bepc.biz

4. PREPARATION OF PROPOSALS

- A. Submit proposal on the enclosed form. Enclose in sealed envelope bearing the title of the work and the name of the Bidder. Bidders shall submit all of the following to be considered :
 - 1) Proposal Form, included herein, inclusive of the following:
 - 1) Base Bid Price

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- 2) Completion Time
 - 3) Alternate Pricing (if applicable)
 - 4) Unit Pricing (if applicable)
 - 5) Substitutions (if applicable)
 - 6) Acknowledgement of all Addenda
 - 7) Non-Collusive Bidding Certificate
 - 8) Company information with Owner Signature
 - 9) Apprenticeship Certification (if applicable; see the proposal form and Section 10 of the General Conditions for more information)
 - 10) Contractors Own Workforce – See Section 3.18 of the General Conditions for more information
 - 11) Equal Pay Certification - See Sections 8.04 and 8.07 of the General Conditions for more information
 - 12) Erie County Executive Order #18 Attestation and Statement of Workforce (if applicable; See the proposal form and Section 8.08 of the General Conditions for more information)
 - 13) Drug and Alcohol Testing Compliance Form
- 2) Experience Questionnaire conforming to the New York Vendor Responsibility Questionnaire For-Profit Construction (Form CCA-2) as included within the project manual.
- 1) **NOTE** – Failure to submit the completed Responsibility Questionnaire referenced above with the sealed bid proposal shall render the bid non-responsive and the bid shall not be considered in accordance with Erie County Local Law 2-2021.
 - 2) Form CCA-2 should be provided with the seal bid proposal in its entirety, inclusive of Attachments A through C.
 - 3) If the contractor is already enrolled in the New York State’s system, the contractor is permitted to print out their packet from, in its entirety, to provide within their respective sealed bid proposal submission.
 - 4) All documents related to the CCA-2 Questionnaire can be found in the front end of the project manual and can also be found at the link below

<https://www.osc.state.ny.us/state-vendors/vendrep/profit-construction-questionnaire-cca-2>
- 3) Erie County Minority/Women Business Enterprise Utilization Report – Part A included herein (if applicable; See the proposal form and Section 8.06 of the General Conditions for more information).

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- 4) Bid Bond in an amount not less than five percent (5%) of the base bid.
- B. 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 written words shall govern.
- C. Proposals shall not contain any recapitulations of the work to be done. Alternate proposals will not be considered unless called for. Oral proposals or modifications will not be considered.
- D. Any Bidder may withdraw their proposal, either personally or by fax or written request, at any time prior to the scheduled closing time for receipt of proposals.
- E. All proposal forms submitted by a bidder requiring a bidder's signature must bear an original signature signed in ink. Proposals submitted without original signatures will be rejected.

5. AWARD OR REJECTION

- A. The Contract for each phase of the work will be awarded to the lowest qualified responsible Bidder. The Owner reserves the right to reject any or all proposals or to waive any informality. All proposals shall be good for 90 days from date of opening.
- B. For the purpose of determining the lowest responsible bidder, the County shall compare all base bids plus any add or any deduct Alternate Bid items. Unit prices set forth in the proposal shall not be considered in determining the lowest responsible bidder.
- C. The County reserves the right to accept or reject any and all Alternate Bid Items in any order.
- D. The County reserves the right to deem a contractor "Non-responsible" in accordance with Erie County Local Law No. 2-2021

6. INTERPRETATION OF DOCUMENTS

- A. If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of the Drawings, Specifications or other Contract Documents, or finds discrepancies in or omissions from the Drawings or Specifications, he may submit to the Architect - Engineer a written request for an interpretation or correction thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the documents will be made only by Addendum duly issued and a copy of the Addendum will be forwarded to each person receiving a set of the Contract Documents. Neither the Owner nor the Architect - Engineer will be responsible for any other explanations or interpretations of the Contract Documents.

7. ADDENDA

- A. Any Addenda issued during the time of bidding shall be covered in the proposal, and shall be made a part of the Contract Documents. Receipt of each Addendum shall be acknowledged in the proposal.
- B. A final addendum will be issued no later than Monday, April, 24th, 2023. Requests for interpretation or correction (RFI) shall be submitted to the Architect no later than 12:00 PM on Friday April, 21st, 2023.

8. BID BOND

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- A. Each proposal must be accompanied by a Bid Bond in form similar to American Institute of Architects Document No. A-310 in an amount not less than five percent (5%) of the base bid.
- B. Should the Bidder, if awarded the Contract, fail to execute the Agreement within five (5) days in accordance with the proposal and other Contract Documents the Bid Bond amount shall be forfeited to the Owner as liquidated damages caused by such failures.

9. PERFORMANCE AND LABOR AND MATERIAL PAYMENT BOND

- A. The bidder or bidders whose proposal is accepted shall furnish a Performance and Labor and Materials Payment Bond to the County of Erie in the penal amount of 100% of the contract price, if the contract is based upon a time and material price, or 100% of the estimated cost if the contract is based upon a unit price, such bond to be duly executed by the bidder as principal and by a duly incorporated company authorized to guarantee the performance of contracts and to do business in the State of New York, as surety. The Bond shall be on a form approved by the County Attorney, a copy of which is included herein.

10. QUALIFICATIONS OF BIDDERS

- A. The Bidder shall submit all documents as described in Section 5 above.
- B. All prospective bidders are hereby notified that they must be able to prove to the satisfaction of the Owner that they are a responsible bidder and have the skill and experience, as well as the necessary facilities, ample financial resources, organization and general reliability to do the work to be performed under the provisions of the contract in a satisfactory manner and within the time specified.
- C. At the request of the Owner, within forty-eight hours (48) after the opening of the proposals, the lowest three bidders, if requested, must submit, in duplicate, to the Owner a current financial statement certified to be true and correct by a certified public accountant or an officer or principal of the bidder.
- D. Each bidder must be prepared to show to the satisfaction of the Owner that he has sufficient liquid assets available for the project upon which he is bidding. The Owner does not regard credit, borrowed money, equity in real estate, life insurance, reserves representing pre-payment of taxes and life insurance, and other expenses, deposits held as security for other contracts, capital of proposed sub-contractors, capital stock of the contractor, and similar items, as liquid assets available for the work to be performed under the contract.
- E. A bidder must also be prepared to prove to the satisfaction of the Owner that he has successfully completed a contract of similar work in an amount of not less than 25 percent of the amount of the proposed contract.
- F. Each bidder must comply promptly with all requests by the Owner for information and must actively cooperate with the Owner in its efforts to determine whether the bidder is qualified.
- G. The award of the contract shall not be construed as a guarantee by the Owner that the plant, equipment and the general scheme of operations and other data submitted by the bidder with or after their proposal is either adequate or suitable for the satisfactory performance of the work.

11. ACKNOWLEDGEMENTS

- A. All acknowledgements of Contractor and Owner, Principal and Surety shall be subject to the approval of the Erie County Attorney, State of New York.

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12. EQUIVALENT MATERIAL OR EQUIPMENT

- A. Whenever a specific material or equipment item is named in the plans or specifications, the Contractor shall furnish the material or equipment thus named, unless: (1) in the Bid, the contractor names another item which he proposes as the full equivalent of the named item, and in executing the Contract the Owner accepts such substitution; or (2) the Owner subsequently approves a substitution during the course of project construction by Change Order.

13. LIST OF PROPOSED SUBCONTRACTORS

- A. The low bidder, or three low bidders if requested, shall submit a complete list of sub-contractors he proposes to use not later than 48 hours after receipt of bid proposals.
- B. Sub-contractor list shall be delivered to the Architect with a copy for the Owner.
- C. Execution of the Contract by the Owner without objection to any name on said list shall constitute an acceptance of the same. Should the Owner request that a different sub-contractor be proposed for any phase of the work, the bidder shall comply with such requests until a sub-contractor acceptable to the Owner is proposed. No sub-contractor approved by the Owner may be replaced unless replacement is approved by the Owner.

14. NON-COLLUSIVE BIDDING CERTIFICATE

- A. Attention of all bidders is called to provisions of State Law requiring the bid itself to contain a certificate that there has been no collusion in the preparation or submittal of such bid. (See pertinent portion of Proposal Form.)

15. SALES TAX EXEMPTION

- A. The Owner is an exempt organization under the Tax Law and is exempt from payment of Sales and Compensating Use Taxes of the State of New York and cities and counties of the State on all materials sold to the Owner pursuant to the provisions of the Contract. These taxes are not to be included in bids.
 - 1. Section 115 (a) (15) of the Tax Law provides that tangible personal property sold to a Contractor for use in erecting a structure or building for an exempt organization is exempt from the Sales and Compensating Use Tax of the State of New York and of cities and counties of the State provided such tangible personal property is to become an integral component part of such structure, building, or real property.
 - 2. There is no exemption from the Sales or Use Tax on sales or charges to a Contractor or sub-contractor for the purchase or lease of supplies, machinery, equipment, tools, services, etc., used or consumed in the completion of the Contract. The Contractor and its sub-contractors shall be responsible for and pay any and all applicable taxes including Sales and Compensating Use Taxes on such items.

16. BIDDING DOCUMENTS

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- A. Drawings, Specifications and other Bidding Documents must be downloaded from the Erie.gov website <http://www2.erie.gov/dpw/>, ON-LINE BID RETRIEVAL, unless stated otherwise in the Notice to Bidders. Electronic pdf files of the Bid Documents will be available for each Prime Contract Bidder for purposes of preparing a bona fide Proposal.

17. EXISTING CONDITIONS

- A. It shall be the responsibility of each and every bidder to thoroughly investigate all existing conditions and he shall acquaint themselves with existing conditions, insofar as it may affect their work and/or bidding.
- B. The Bidder, before submitting a proposal, shall satisfy themselves fully as to the work called for on the Contract Documents, and to the working conditions and condition of the site, including the existence of other facilities and/or structures on, over or under the site which may interfere with, or make more difficult, the performance of the Contract.
- C. The signature of the Bidder upon the proposal form shall constitute a certification to the Owner that such Bidder is fully informed regarding all the conditions affecting the work to be done, that such information was secured by personal investigation and that such Bidder accepts full responsibility for their bid.
- D. If a Bidder should encounter any condition not provided for in the Contract Documents that will affect their bid or the performance of their contract obligations, should he be the successful bidder, he shall notify the Architect, in writing, at least five (5) days prior to opening of bids.

18. WAGE RATES

- A. It is hereby agreed by the parties to this contract that all laborers, workmen and mechanics employed on the work done in performance of said contract shall be paid not less than the rate of wages listed on the current prevailing rate schedule issued by the New York State Department of Labor for the trade or occupation of such laborer, workmen, or mechanics, and any supplements thereto.
- B. The wage rates and supplemental benefits to be paid such laborer, workmen or mechanics shall always be those prevailing at the time the work is being performed.
- C. A copy of the current "Prevailing Rate Schedule" is attached hereto for convenience. The wage rates and supplemental benefits listed thereon are subject to change and may be superseded by any schedule hereafter issued by the New York State Department of Labor. Any such revised schedules shall be attached hereto and become a part of this contract, but this will in no way alter the contract amount or any provisions of said contract.
- D. It is the responsibility of the Contractor to remain familiar with the currently applicable schedule.
- E. Should the Contractor employ laborers, workmen or mechanics engaged in any trade for which a wage rate is not stipulated in the attached schedule, or any supplements thereto, he shall obtain the appropriate wage rate from the New York State Department of Labor before employing the laborer, workman or mechanic.

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- F. Section 220-a of the New York State Labor Law requires the Contractor and each of its sub-contractors to place on file with the Owner, certificates relating to the final payment of wages and supplements for Labors on this Project. Samples of the required certificates immediately follow this section and are designated as PICC-1 (Sub-contractor Certification) and PICC-2 (Prime Contractor Certification, pages 1 & 2). The Contractor and each of its sub-contractors acknowledge that no final payment can be made to the Contractor unless the necessary certifications, properly executed, accompany the final payment request.
- G. If a Contractor or sub-contractor has had one final determination by the New York State Department of Labor that it willfully failed to pay or provide the prevailing rate of wages or supplements to its employees, the contractor or sub-contractor will be ineligible to tender a bid.

19. DRUG & ALCOHOL TESTING PROGRAM COMPLIANCE

- A. Due to the safety-sensitive nature of the work that Commercial Driver Licensed (CDL) employees may perform on this project, the low bidder, if requested, shall submit acknowledgment of Drug and Alcohol Testing Compliance Form DA-1 included herein within three (3) days after receipt of proposals.

END OF SECTION



Kathy Hochul, Governor

Roberta Reardon, Commissioner

Erie County DPW
David Zdolinski
Buffalo Engineering
4245 Union Rd.
Suite 204
Buffalo NY 14225

Schedule Year 2022 through 2023
Date Requested 10/13/2022
PRC# 2022011602

Location Zoeller Rd. & Walden Ave.
Project ID# 2021-852-01
Project Type Provide new electric service to serve existing pump station and provide emergency generator to provide backup power for all equipment.

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 2022 through June 2023. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.ny.gov. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

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

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

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

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

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

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

Introduction

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

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.

There are very few exceptions to this rule. Complete information regarding these exceptions is available on the ["Request for a dispensation to work overtime" form \(PW30\)](#) and ["4 Day / 10 Hour Work Schedule" form \(PW 30.1\)](#).

Wages and Supplements

The wages and supplements to be paid and/or provided to laborers, workers, and mechanics employed on a public work project shall be not less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. If a prime contractor on a public work project has not been provided with a Prevailing Rate Schedule, the contractor must notify the Department of Jurisdiction (Contracting Agency) who in turn must request an original Prevailing Rate Schedule form the Bureau of Public Work. Requests may be submitted by: mail to NYSDOL, Bureau of Public Work, State Office Bldg. Campus, Bldg. 12, Rm. 130, Albany, NY 12240; 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 NYSDOL website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.

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

Withholding of Payments

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

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

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

Summary of Notice Posting Requirements

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

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

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

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

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

Apprentices

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

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

Persons wishing to verify the apprentice registration of any person must do so in writing by mail, to the NYSDOL Office of Employability Development / Apprenticeship Training, State Office Bldg. Campus, Bldg. 12, Albany, NY 12240 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

Erie County DPW
David Zdolinski
Buffalo Engineering
4245 Union Rd.
Suite 204
Buffalo NY 14225

Schedule Year 2022 through 2023
Date Requested 10/13/2022
PRC# 2022011602

Location Zoeller Rd. & Walden Ave.
Project ID# 2021-852-01
Project Type Provide new electric service to serve existing pump station and provide emergency generator to provide backup power for all equipment.

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 12240

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 12240

Any questions regarding billing should be directed to NYSDOL's Administrative Finance Bureau-PWEF Unit at (518) 457-3624 and any questions regarding Public Work Contracts should be directed to the Bureau of Public Work at (518) 457-5589.

Required Notice under Article 25-B of the Labor Law

**Attention All Employees, Contractors and Subcontractors:
You are Covered by the Construction Industry Fair Play Act**

The law says that you are an employee unless:

- You are free from direction and control in performing your job, **and**
- You perform work that is not part of the usual work done by the business that hired you, **and**
- You have an independently established business.

Your employer cannot consider you to be an independent contractor unless all three of these facts apply to your work.

It is against the law for an employer to misclassify employees as independent contractors or pay employees off the books.

Employee Rights: If you are an employee, you are entitled to state and federal worker protections. These include:

- Unemployment Insurance benefits, if you are unemployed through no fault of your own, able to work, and otherwise qualified,
- Workers' compensation benefits for on-the-job injuries,
- Payment for wages earned, minimum wage, and overtime (under certain conditions),
- Prevailing wages on public work projects,
- The provisions of the National Labor Relations Act, and
- A safe work environment.

It is a violation of this law for employers to retaliate against anyone who asserts their rights under the law. Retaliation subjects an employer to civil penalties, a private lawsuit or both.

Independent Contractors: If you are an independent contractor, **you must pay all taxes and Unemployment Insurance contributions required by New York State and Federal Law.**

Penalties for paying workers off the books or improperly treating employees as independent contractors:

- **Civil Penalty** First offense: Up to \$2,500 per employee
 Subsequent offense(s): Up to \$5,000 per employee
- **Criminal Penalty** First offense: Misdemeanor - up to 30 days in jail, up to a \$25,000 fine and debarment from performing public work for up to one year.
 Subsequent offense(s): Misdemeanor - up to 60 days in jail or up to a \$50,000 fine and debarment from performing public work for up to 5 years.

If you have questions about your employment status or believe that your employer may have violated your rights and you want to file a complaint, call the Department of Labor at (866) 435-1499 or send an email to dol.misclassified@labor.ny.gov. All complaints of fraud and violations are taken seriously. You can remain anonymous.

Employer Name:

IA 999 (09/16)

Attention Employees

THIS IS A: **PUBLIC WORK PROJECT**

If you are employed on this project as a **worker, laborer, or mechanic** you are entitled to receive the **prevailing wage and supplements rate** for the classification at which you are working.

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/public-work-and-prevailing-wage>

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) 568-5156		

* 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 12240

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

Erie County General Construction

Boilermaker **10/01/2022**

JOB DESCRIPTION Boilermaker

DISTRICT 12

ENTIRE COUNTIES

Allegany, Cattaraugus, Chautauqua, Chemung, Erie, Genesee, Livingston, Monroe, Niagara, Ontario, Orleans, Schuyler, Steuben, Wayne, Wyoming, Yates

WAGES

Per hour: 07/01/2022

Boilermaker \$ 35.10

The wage rate will be 90% of the above for Maintenance work on boilers less than 100,000 pph.

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour: \$ 31.04*

*NOTE: \$29.85 of this amount is for every Hour "Paid"

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

1st Term at 12 Months
Terms 3-8 at 6 Months

Per Hour:

1st 65%
3rd 70% 4th 75% 5th 80% 6th 85% 7th 90% 8th 95%

Supplemental Benefits per hour:

All Terms \$ 31.04**

**NOTE: \$29.85 of this amount is for every Hour "Paid"

12-7

Carpenter - Building **10/01/2022**

JOB DESCRIPTION Carpenter - Building

DISTRICT 12

ENTIRE COUNTIES

Erie

PARTIAL COUNTIES

Cattaraugus: Townships of Persia and Perrysburg

WAGES

Per hour: 07/01/2022

Building:

Carpenter \$ 33.53
FloorLayer 33.53
Certified Welder 34.53
Hazardous Waste Worker 35.03
Diver-Dry Day 34.53
Diver Tender 34.53
Diver-Wet Day*** 61.25

Hazardous Waste Worker: Hazardous sites requiring personal protective equipment.

*** Diver rate applies to all hours worked on the day of dive.

Depth pay for divers:	0' to 80'	no additional fee
	81' to 100'	additional \$0.50 per foot
	101' to 150'	additional \$0.75 per foot
	151' and deeper	additional \$1.25 per foot
Penetration pay:	0' to 50'	no additional fee
	51' to 100'	additional \$0.75 per foot
	101' and deeper	additional \$1.00 per foot

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule' as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour worked:

Carpenter(s)	\$ 29.00
Diver(s)	29.00

OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following percentage of Journeyman's base wage:

Floorlayer Apprentices:

1st	2nd	3rd	4th
55%	60%	70%	80%

Carpenter Apprentices:

1st	2nd	3rd	4th	5th
55%	60%	65%	70%	80%

Supplemental Benefits per hour worked:

1st	2nd	3rd	4th	5th
\$12.65	\$12.65	\$15.30	\$15.30	\$15.30

12-276B-Cat

Carpenter - Building / Heavy&Highway

10/01/2022

JOB DESCRIPTION Carpenter - Building / Heavy&Highway

DISTRICT 2

ENTIRE COUNTIES

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

PARTIAL COUNTIES

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

WAGES

Wages per hour:	07/01/2022	07/01/2023	07/01/2024
		Additional	Additional
Carpenter - ONLY for Artificial Turf/Synthetic Sport Surface	\$ 33.08	\$ 2.25*	\$2.25*

*To be allocated at a later date

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

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 25.45

OVERTIME PAY

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

HOLIDAY

Paid: See (5) on HOLIDAY PAGE

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

Notes:

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

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

REGISTERED APPRENTICES

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

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

Supplemental Benefits per hour:

1st term	\$ 16.97
2nd term	17.41
3rd term	19.40
4th term	19.84

2-42AtSS

Carpenter - Heavy&Highway

10/01/2022

JOB DESCRIPTION Carpenter - Heavy&Highway

DISTRICT 12

ENTIRE COUNTIES

Erie

WAGES

Per hour: 07/01/2022

Carpenter	\$ 37.44
Certified Welder	39.94
Diver-Dry Day	38.44
Diver-Wet Day**	62.44
Diver Tender	38.44
Hazardous Material Worker	39.44
Piledriver	37.44
Effluent & Slurry Diver-Dry Day	57.66
Effluent & Slurry Diver-Wet Day	93.66

Hazardous Waste Worker: Hazardous sites requiring personal protective equipment.

** Diver rate applies to all hours worked on the day of dive.

Depth pay for divers:	0' to 50'	no additional fee
	51'to 100'	additional \$0.50 per foot
	101' to 150'	additional \$0.75 per foot
	151' to 200'	additional \$1.25 per foot

Penetration pay:	0' to 50'	no additional fee
	51' to 100'	additional \$0.75 per foot
	101' to deeper	additional \$1.00 per foot

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour worked:

Carpenter(s) \$ 31.09

Diver(s) 31.09

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (2, 17) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following percentage of Journeyman's wage:

Carpenter Apprentice:

1st	2nd	3rd	4th	5th
65%	70%	75%	80%	85%

Pile Driver Apprentice(1300hour terms at percentage of Pile Driver Rate)

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

Supplemental benefits Carpenter/Pile Driver per hour worked:

1st	2nd	3rd	4th	5th
\$17.95	\$18.46	\$20.53	\$21.04	\$21.56

12-276HH-Erie

Electrician

10/01/2022

JOB DESCRIPTION Electrician

DISTRICT 3

ENTIRE COUNTIES

Erie

PARTIAL COUNTIES

Cattaraugus: Only the Townships of Ashford, East Otto, Ellicottville, Farmersville, Freedom, Franklinville, Lyndon, Machias, Mansfield, New Albion, Otto, Perrysburg, Persia and Yorkshire.
Genesee: Only the Townships of Alabama, Alexander, Darien, Oakfield,Pembroke and that portion of the Towns of Batavia and Elba that are west of Little Tonawanda Creek; Tonawanda Creek; the City limits of Batavia (in effect prior to Feb. 1, 1970) and State Highway 98 north of the City of Batavia, then north on Highway 98 to the Orleans County line.
Wyoming: Only the Townships of Arcade, Attica, Bennington, Eagle, Java, Orangeville, Sheldon and Wethersfield.

WAGES

Per hour:	07/01/2022	05/30/2023
Electrician*	\$ 38.99	Additional \$ 2.00

* Includes teledata work

When shift work is mandated either in the job specification or by the contracting agency the following premiums apply:

17.3% for work from 4:30PM - 1:00AM

31.4% for work from 12:30AM - 9:00AM

Additional \$0.50/hr in shafts over 25 ft. deep and in underground tunnels over 75 ft. long.

Additional \$0.75/hr for work on toothpicks, structural steel, temporary platforms, swinging scaffolds, boatswain chairs, smoke stacks or water towers 30 ft above the floor or for work on rolling scaffolds and ladders over 50 ft.

Additional \$1.50/hr for Cable Splicers on such work as lead, and shielded cable and splices or terminations on cable 5KV and above.

Additional \$1.00/hr for Hot work (Atomic plants).

Additional \$2.00/hr for work on radio, TV, light towers and floating platforms or climbing ladders in excess of 100 ft. high.

SUPPLEMENTAL BENEFITS

Per hour:

\$ 30.55*

* NOTE - add 3% of the posted straight time or applicable premium wage rate.

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

Hour terms at the following wages:

0 to 1000 to 2000 to 3500 to 5000 to 6500 to 8000
\$ 14.45 \$ 15.60 \$ 17.55 \$ 21.45 \$ 27.30 \$ 31.20

Supplemental benefits per hour:

0 to 2000 to 6500 to 8200
\$ 13.51* \$ 24.40* \$ 30.55*

* NOTE - add 3% of the posted straight time or applicable premium wage rate.

3-41

Elevator Constructor

10/01/2022

JOB DESCRIPTION Elevator Constructor

DISTRICT 3

ENTIRE COUNTIES

Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Niagara, Orleans, Wyoming

WAGES

Per hour:	07/01/2022
Elevator Constructor	\$ 54.98
Helper	38.49

**** IMPORTANT NOTICE - EFFECTIVE 04/01/2009 ****

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday or Tuesday thru Friday.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour: \$ 36.89

Note - add 6% of regular hourly rate for all hours worked.

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

REGISTERED APPRENTICES

Wages per hour:

One year (1,700 hour each) terms at the following percentage of Journeyman's wage:

1st*	2nd	3rd	4th
55%	65%	70%	80%

Supplemental benefits per hour:

\$ 36.89

* Note - 0-6 months of the 1st year term is paid at 50% of Journeyman's wage with no Supplemental benefits.

Note - add 6% of regular hourly rate for all hours worked.

3-14

Glazier

10/01/2022

JOB DESCRIPTION Glazier

DISTRICT 3

ENTIRE COUNTIES

Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Niagara, Orleans, Wyoming

WAGES

Per hour:	07/01/2022
Glazier	\$ 29.48
Working off Suspended Scaffold (Swing Stage)	31.48
Maintenance	19.00*

* Note - This rate to be used only for all repair and replacement work such as glass breakage, glass replacement, door repair and board ups.

**** IMPORTANT NOTICE ****

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman Glazier	\$ 25.09
Maintenance	16.06

OVERTIME PAY

See (B, E2, F, R) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE for Glazier and Glazier Apprentices.

Paid: See (5, 6) on HOLIDAY PAGE for Maintenance

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

REGISTERED APPRENTICES

Wages per hour:

Glazier: 1000 hour terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 17.50	\$ 18.50	\$ 19.50	\$ 20.50	\$ 21.50	\$ 22.50	\$ 23.50	\$ 24.50

Supplemental benefits per hour:

1st & 2nd terms	\$ 8.60
3rd & 4th terms	11.10
5th & 6th terms	12.60
7th & 8th terms	14.10

3-660

Insulator - Heat & Frost

10/01/2022

JOB DESCRIPTION Insulator - Heat & Frost

DISTRICT 3

ENTIRE COUNTIES

Allegany, Cattaraugus, Chautauqua, Erie, Niagara, Wyoming

PARTIAL COUNTIES

Genesee: Only the Townships of Alabama, Alexander, Darien, Oakfield and Pembroke.

WAGES

Per Hour: 07/01/2022

Heat & Frost Insulator \$ 35.50

SUPPLEMENTAL BENEFITS

Per hour:

\$ 26.79

OVERTIME PAY

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

* Note - Double time after 10 hours on Saturday.

** Note - Triple time on Labor Day if WORKED.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th
60%	70%	75%	80%

Supplemental Benefits per hour:

1st	\$ 7.96
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2nd	11.54
3rd	26.79
4th	26.79

3-4

Ironworker **10/01/2022**

JOB DESCRIPTION Ironworker

DISTRICT 3

ENTIRE COUNTIES

Cattaraugus, Chautauqua

PARTIAL COUNTIES

Allegany: Entire county except the Towns of Birdsall, Burns and Grove.

Erie: All except the Town of Grand Island north of Whitehaven Road.

Genesee: Only the Townships of Alabama, Alexander, Darien and Pembroke

Steuben: Only the Townships of Canisteo, Freemont, Greenwood, Hartsville, Hornell, Hornellsville, Howard, Jasper, Troupsburg and West Union

Wyoming: Only the Townships of Arcade, Attica, Bennington, Eagle, Gainsville, Java, Orangeville, Pike, Sheldon, Warsaw and Wethersfield.

WAGES

Per hour: 07/01/2022

Structural	\$ 32.36
Ornamental	32.36
Layout	32.36
Rodmen	32.36
Reinforcing	32.36
Welders	32.36
Riggers & Mach. Movers	32.36
Curtain Wall Erector	32.36
Window Erector	30.01
Fence Erector	30.93

When shift work is mandated either in the job specification or by the contracting agency the following premiums apply:

10% for second shift work from 2:00PM - 7:00PM

15% for third shift work from 7:00PM - 12:00AM

When a single irregular shift is worked outside the standard workday with the start times based on second and third shifts, a 10% premium on hours worked applies.

SUPPLEMENTAL BENEFITS

Per hour:

Fence erectors	\$ 30.17
All others	31.67

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following wage:

1st	2nd	3rd	4th
\$ 19.50	\$ 21.50	\$ 23.50	\$ 25.50

Supplemental benefits per hour:

1st	2nd	3rd	4th
\$ 14.17	\$ 23.97	\$ 25.37	\$ 26.77

3-6

Ironworker **10/01/2022**

JOB DESCRIPTION Ironworker

DISTRICT 3

ENTIRE COUNTIES

Niagara

PARTIAL COUNTIES

Erie: Only that portion of the Township of Grand Island north of Whitehaven Road.
Orleans: Only the Townships of Ridgeway, Shelby and Yates.

WAGES

Per hour: 07/01/2022

Structural	\$ 32.00
Ornamental	32.00
Reinforcing	32.00
Rigger & Mach. Mover	32.00
Pre-Engineered	32.00
Fence Erector	32.00
Pre-Cast Erector	32.00
Welder	32.00
Window Erector	32.00

When shift work is mandated either in the job specification or by the contracting agency the following premiums apply:

10% for second shift work from 2:00PM - 7:00PM

15% for third shift work from 7:00PM - 12:00AM

When a single irregular shift is worked outside the standard workday with the start times based on second and third shifts, a 10% premium on hours worked applies.

SUPPLEMENTAL BENEFITS

Per hour: \$ 32.29

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following wage:

1st term	\$ 19.50
2nd term	21.50
3rd term	23.50
4th term	25.50

Supplemental benefits per hour:

1st term	\$ 12.53
2nd term	20.23
3rd term	21.33
4th term	22.43

Laborer - Building

10/01/2022

JOB DESCRIPTION Laborer - Building

DISTRICT 3

ENTIRE COUNTIES

Erie

PARTIAL COUNTIES

Cattaraugus: Only the Townships of Perrysburg and the Village Gowanda.

WAGES

CLASS A: Basic, Safety Man, Flagman, Tool Room Man, Nurseryman, Demolition Worker, Top Man, Wrecker, IBC Barriers Except on Structures, Guard Rail, Asphalt Shovelers, Foundation Laborer over 8' in Depth, Hod Carriers, Plaster Tender, Plaster Scaffold Builder, Pneumatic Gas, Electric Tool Operator including all forms of Busters, Jackhammers and Chipping Guns, Steel Burners.

CLASS B: Mortar Mixer, Asphalt Smoothers, Pneumatic Gas, Electric Tool Operator including all forms of Busters, Jackhammers and Chipping Guns over 8' in depth.

CLASS C: Worker on any Swing Scaffold, Blaster, Plumbing Laborer, Wagon Drill Operator, Bottomman (caisson or cofferdam), Laser Setter, Asphalt Rakers, Asphalt Screed Man.

CLASS D: Stone Cutter, Curb Setter and Flag Layer.

CLASS E: Wearing of replaceable cartridge respirator.

CLASS F: Asbestos Removal, Deleader.

CLASS G: Hazardous Waste Worker.

Per hour:	07/01/2022
Building Laborer:	
CLASS A	\$ 30.33
CLASS B	30.50
CLASS C	30.61
CLASS D	31.08
CLASS E	31.33
CLASS F	31.83
CLASS G	32.33

SUPPLEMENTAL BENEFITS

Per hour:	\$ 27.65
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OVERTIME PAY

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

HOLIDAY

Paid:	See (22) on HOLIDAY PAGE
Overtime:	See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

Hour terms at the following percentage of Journeyman's wage:

0	to 1500	to 3000	to 4000
70%	80%	90%	

Supplemental benefits per hour:

\$ 27.65

3-210b

Laborer - Heavy&Highway

10/01/2022

JOB DESCRIPTION Laborer - Heavy&Highway

DISTRICT 3

ENTIRE COUNTIES

Erie

WAGES

Heavy/Highway Laborer:

GROUP A: Basic, Drill Helper, Flagman, Outboard and Hand Boats, Demolition Worker, Nurseryman, IBC Barriers (except on structures), Guard Rails, Road Markers.

GROUP B: Grade Checker, Chain Saw, Concrete Aggregate Bin, Concrete Bootmen, Gin Buggy, Hand or Machine Vibrator, Jack Hammer, Mason Tender, Mortar Mixer, Pavement Breaker, Handlers of Steel Mesh, Small Generators for Laborers' Tools, Pipe Layers, Vibrator Type Rollers, Tamper, Drill Doctor, Tail or Screw Operator on Asphalt Paver, Water Pump Operators (2" and Single Diaphragm), Nozzle (Asphalt, Guniting, Seeding, and Sand Blasting), Laborers on Chain Link Fence Erection, Rock Splitter and Power Unit, Pusher Type Concrete Saw and all other Gas, Electric, Oil and Air Tool Operators, Wrecking Laborer and Laser Man.

GROUP C: All Rock or Drilling Machine Operators (Except Quarry Master and Similar Type), Acetylene Torch Operators, Asphalt Raker, Powderman and Welder.

GROUP D: Blasters, Curb and Flatwork Formsetter not on structures, Stone or Granite Curb Setters and Stone Cutter.

Per hour:	07/01/2022
Heavy/Highway Laborer:	
GROUP A	\$ 33.66
GROUP B	33.86
GROUP C	34.06
GROUP D	34.26

For all Deleader & Asbestos work add \$1.50 to Group A rate.

For all Hazardous waste work add \$2.00 to Group A rate.

For use of replaceable cartridge respirator add \$1.00 to Group A rate.
An additional \$4.00 per hour is required when an irregular work shift starting any time from 3:30PM to 1:00AM is mandated either in the job specification or by the contracting agency.

Sewer/Water Laborer:
GROUP A: Basic, Flagman, Top man, Wreckers.

GROUP B: Foundation, Plaster tender, Scaffold bootman, Pneumatic, gas, electric, tool operator, jackhammer, chipping guns.

GROUP C: Mortar Mixer, over 8 ft. in depth.

GROUP D: Pavement formsetter, Steelburner, Caisson, Wagon Drill Oper., PipeLayer, Swing Scaffold.

GROUP E: Utility pave driver, Laser operator.

GROUP F: Blaster.

Per hour:	07/01/2022
Sewer/Water Laborer:	
GROUP A	\$ 33.66
GROUP B	33.76
GROUP C	33.81
GROUP D	33.91
GROUP E	34.26
GROUP F	34.66

For all Deleader & Asbestos work add \$1.50 to Group A rate.

For all Hazardous waste work add \$2.00 to Group A rate.

An additional \$4.00 per hour is required when an irregular work shift starting any time from 3:30PM to 1:00AM is mandated either in the job specification or by the contracting agency.

SUPPLEMENTAL BENEFITS

Per hour: \$ 27.65

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

Hour terms at the following percentage of Journeyman's wage:

0 to 1500 to 3000 to 4000
70% 80% 90%

Supplemental benefits per hour:

\$ 27.65

3-210h

Laborer - Tunnel

10/01/2022

JOB DESCRIPTION Laborer - Tunnel

DISTRICT 3

ENTIRE COUNTIES

Erie

WAGES

CLASS A: Mole Nipper, Powder Handler, Changehouse Attendant and Top Laborer.

CLASS B: Air Spade, Jackhammer, Pavement Breaker.

CLASS C: Top Bell.

CLASS D: Bottom Bell, Side or Roofbelt Driller, Maintenance men, Burners, Block Layers, Rodmen, Caulkers, Miners helper, Trackmen, Nippers, Deraillmen, Electrical Cablemen, Hosemen, Groutmen, Gravelmen, Form Workers, Movers and Shaftmen, Conveyor men.

CLASS E: Powder Monkey.

CLASS F: Blasters, Ironmen and Cement Worker, Miner, Welder, Heading Driller.

CLASS G: Steel Erectors, Piledriver, Rigger.

Per hour:	07/01/2022
Tunnel Laborer:	
CLASS A	\$ 35.16
CLASS B	35.31
CLASS C	35.41
CLASS D	35.91
CLASS E	36.01
CLASS F	36.41
CLASS G	36.66

For all Deleader & Asbestos work add \$1.50 to Class A rate.

For all Hazardous waste add \$2.00 to Class A rate.

For use of replaceable cartridge respirator add \$1.00 to Group A rate.

An additional \$3.00 per hour is required when a single irregular work shift starting any time from 5:00PM to 1:00AM is mandated either in the job specification or by the contracting agency.

SUPPLEMENTAL BENEFITS

Per hour:	\$ 27.65
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OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

Hour terms at the following percentage of Journeyman's wage:

0 to 1500 to 3000 to 4000
70% 80% 90%

Supplemental benefits per hour:

\$ 27.65

3-210t

Lineman Electrician

10/01/2022

JOB DESCRIPTION Lineman Electrician

DISTRICT 6

ENTIRE COUNTIES

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

WAGES

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

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

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

Below rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of fiber optic cable where no other construction trades are or have been involved. (Ref #14.01.01)

Per hour:	07/01/2022	05/01/2023	05/06/2024
Lineman, Technician	\$ 56.00	\$ 57.40	\$ 58.90
Crane, Crawler Backhoe	56.00	57.40	58.90
Welder, Cable Splicer	56.00	57.40	58.90
Digging Mach. Operator	50.40	51.66	53.01
Tractor Trailer Driver	47.60	48.79	50.07
Groundman, Truck Driver	44.80	45.92	47.12
Equipment Mechanic	44.80	45.92	47.12
Flagman	33.60	34.44	35.34

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

Below rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work". (Ref #14.02.01-A)

Lineman, Technician	\$ 56.00	\$ 57.40	\$ 58.90
Crane, Crawler Backhoe	56.00	57.40	58.90
Cable Splicer	61.60	63.14	64.79
Certified Welder - Pipe Type Cable	58.80	60.27	61.85
Digging Mach. Operator	50.40	51.66	53.01
Tractor Trailer Driver	47.60	48.79	50.07
Groundman, Truck Driver	44.80	45.92	47.12
Equipment Mechanic	44.80	45.92	47.12
Flagman	33.60	34.44	35.34

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

Below rates apply on switching structures, maintenance projects, railroad catenary install/maintenance third rail installation, bonding of rails and pipe type cable and installation of fiber optic cable. (Ref #14.02.01-B)

Lineman, Tech, Welder	\$ 57.32	\$ 58.72	\$ 60.22
Crane, Crawler Backhoe	57.32	58.72	60.22
Cable Splicer	63.05	64.59	66.24
Certified Welder - Pipe Type Cable	60.19	61.66	63.23
Digging Mach. Operator	51.59	52.85	54.20
Tractor Trailer Driver	48.72	49.91	51.19
Groundman, Truck Driver	45.86	46.98	48.18
Equipment Mechanic	45.86	46.98	48.18
Flagman	34.39	35.23	36.13

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

Below rates applicable on all overhead and underground transmission line work & fiber optic cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction. (Ref #14.03.01)

Lineman, Tech, Welder	\$ 58.51	\$ 59.91	\$ 61.41
Crane, Crawler Backhoe	58.51	59.91	61.41
Cable Splicer	58.51	59.91	61.41
Digging Mach. Operator	52.66	53.92	55.27
Tractor Trailer Driver	49.73	50.92	52.20
Groundman, Truck Driver	46.81	47.93	49.13
Equipment Mechanic	46.81	47.93	49.13
Flagman	35.11	35.95	36.85

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 %

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

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

	07/01/2022	05/01/2023	05/06/2024
Journeyman	\$ 25.90 *plus 7% of the hourly wage paid	\$ 26.40 *plus 7% of the hourly wage paid	\$ 26.90 *plus 7% of the hourly wage paid
Journeyman Lineman or Equipment Operators with Crane License	\$ 27.90 *plus 7% of the hourly wage paid	\$ 29.40 *plus 7% of the hourly wage paid	\$ 30.90 *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 all 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:

	07/01/2022	05/01/2023	05/06/2024
	\$ 25.90 *plus 7% of the hourly wage paid	\$ 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.

6-1249a

Lineman Electrician - Teledata

10/01/2022

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).

	07/01/2022	01/01/2023	01/01/2024	01/01/2025
Cable Splicer	\$ 36.28	\$ 37.73	\$ 39.24	\$ 40.81
Installer, Repairman	\$ 34.43	\$ 35.81	\$ 37.24	\$ 38.73
Teledata Lineman	\$ 34.43	\$ 35.81	\$ 37.24	\$ 38.73

Tech., Equip. Operator	\$ 34.43	\$ 35.81	\$ 37.24	\$ 38.73
Groundman	\$ 18.25	\$ 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:	07/01/2022	01/01/2023	01/01/2024	01/01/2025
Journeyman	\$ 5.14	\$ 5.14	\$ 5.14	\$ 5.14
	*plus 3% of the hourly wage paid	*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 **10/01/2022**

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

ENTIRE COUNTIES

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

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/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 #14.01.01)

Per hour:	07/01/2022	05/01/2023	05/06/2024
Lineman, Technician	\$ 48.19	\$ 49.32	\$ 50.54
Crane, Crawler Backhoe	48.19	49.32	50.54
Certified Welder	50.60	51.79	53.07
Digging Machine	43.37	44.39	45.49
Tractor Trailer Driver	40.96	41.92	42.96
Groundman, Truck Driver	38.55	39.46	40.43
Equipment Mechanic	38.55	39.46	40.43
Flagman	28.91	29.59	30.32

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%

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

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

	07/01/2022	05/01/2023	05/06/2024
Journeyman	\$ 25.90 *plus 7% of the hourly wage paid	\$ 26.40 *plus 7% of the hourly wage paid	\$ 26.90 *plus 7% of the hourly wage paid
Journeyman Lineman or Equipment Operators with Crane License	\$ 27.90 *plus 7% of the hourly wage paid	\$ 29.40 *plus 7% of the hourly wage paid	\$ 30.90 *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 all 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:

	07/01/2022	05/01/2023	05/06/2024
	\$ 25.90 *plus 7% of the hourly wage paid	\$ 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.

6-1249a-LT

Lineman Electrician - Tree Trimmer

10/01/2022

JOB DESCRIPTION Lineman Electrician - Tree Trimmer

DISTRICT 6

ENTIRE COUNTIES

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

WAGES

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

Per hour:	07/01/2022	01/01/2023
Tree Trimmer	\$ 28.25	\$ 29.80
Equipment Operator	24.98	26.35
Equipment Mechanic	24.98	26.35
Truck Driver	20.80	21.94
Groundman	17.13	18.07
Flag person	13.20*	13.20*

*NOTE: Subject to change due to any minimum wage increases.

SUPPLEMENTAL BENEFITS

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

	07/01/2022	01/01/2023
Journeyman	\$ 10.23 *plus 3% of the hourly wage paid	\$ 10.48 *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 (5, 6, 8, 15) on HOLIDAY PAGE
 Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

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

6-1249TT

Mason - Building **10/01/2022**

JOB DESCRIPTION Mason - Building

DISTRICT 3

ENTIRE COUNTIES

Erie, Niagara

PARTIAL COUNTIES

Cattaraugus: Only the Township of Perrysburg and the Village of Gowanda.

WAGES

Per hour:	07/01/2022
Plasterer	\$ 30.15

Additional \$3.00/hr for work on swing stage over 20 feet.

SUPPLEMENTAL BENEFITS

Per hour:	\$ 23.49
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OVERTIME PAY

Exterior work only See (B, E, E2, Q) on OVERTIME PAGE.
 All other work See (B, E, Q) on OVERTIME PAGE.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

Hour terms at the following dollar amounts:
07/01/2022

0-1000	\$ 13.20
1000-2000	\$ 14.00
2000-3000	\$ 15.00
3000-4000	\$ 16.00
4000-4700	\$ 17.00
4700-5400	\$ 18.00
5400-6000	\$ 19.00
6000-7000	\$ 20.00
7000-8000	\$ 21.00

Supplemental benefits per hour:

Hour terms at the following dollar amounts:

0	to	4000	to	4700	to	5400	to	6000	to	8000
\$ 2.50		\$ 3.50		\$ 4.50		\$ 5.50		\$ 7.50		

3-9-Pltr

Mason - Building **10/01/2022**

JOB DESCRIPTION Mason - Building

DISTRICT 5

ENTIRE COUNTIES

Erie, Niagara

PARTIAL COUNTIES

Cattaraugus: Only the Township of Perrysburg and the Village of Gowanda.

WAGES

Per Hour:	07/01/2022
Building:	
Bricklayer	\$ 34.82
Stone Mason	34.82
Tuck Pointer	34.82

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 31.76

OVERTIME PAY

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

*Note - Or other conditions beyond the employer's control such as fire or natural disaster.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

1250 hour terms at the following wage:

1st	2nd	3rd	4th
\$ 27.20	\$ 27.67	\$ 29.51	\$ 32.23

Supplemental benefits per hour:

1st	2nd	3rd	4th
\$ 12.65	\$ 18.85	\$ 23.70	\$ 27.67

5-3B-Z3

Mason - Building / Heavy&Highway **10/01/2022**

JOB DESCRIPTION Mason - Building / Heavy&Highway

DISTRICT 3

ENTIRE COUNTIES

Erie

PARTIAL COUNTIES

Cattaraugus: Only the Township of Perrysburg and the Village of Gowanda.

WAGES

Per hour: 07/01/2022

Cement Mason \$ 32.00

Additional \$0.25 per hr for Swing scaffold or exterior scaffold 42' or higher.
Additional \$1.00 per hr when required to wear respirator.

SUPPLEMENTAL BENEFITS

Per hour: \$ 33.22

OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

750 hour terms at the following dollar amounts:

1st	2nd	3rd	4th	5th	6th
\$ 19.20	\$ 20.80	\$ 22.40	\$ 24.00	\$ 25.60	\$ 27.20

Supplemental benefits per hour:

1st	2nd	3rd	4th	5th	6th
\$ 8.86	\$ 11.86	\$ 11.80	\$ 15.05	\$ 17.21	\$ 20.54

3-111Erie

Mason - Heavy&Highway

10/01/2022

JOB DESCRIPTION Mason - Heavy&Highway

DISTRICT 5

ENTIRE COUNTIES

Allegany, Broome, Chautauqua, Chemung, Chenango, Cortland, Delaware, Genesee, Livingston, Monroe, Ontario, Orleans, Otsego, Schuyler, Seneca, Steuben, Tioga, Tompkins, Wayne, Wyoming, Yates

PARTIAL COUNTIES

Cattaraugus: Entire county except in the Township of Perrysburg and the Village of Gowanda only the Bricklayer classification applies.
Erie: Only the Bricklayer classification applies.
Niagara: Only the Bricklayer classification applies.

WAGES

Per hour: 07/01/2022

Heavy & Highway:

Cement Mason \$ 34.88
Bricklayer 34.88

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 23.53

OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

1500 hour terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th
50%	60%	70%	80%

Supplemental benefits per hour:

1st term	\$ 14.03
2nd term	\$ 22.97
3rd term	\$ 23.11
4th term	\$ 23.25

5-3h

Mason - Tile Finisher

10/01/2022

JOB DESCRIPTION Mason - Tile Finisher

DISTRICT 5

ENTIRE COUNTIES

Erie, Niagara, Orleans

PARTIAL COUNTIES

Cattaraugus: Only the Township of Perrysburg and the Village of Gowanda.

WAGES

Per hour: 07/01/2022

Building:

Marble, Slate, Terrazzo and Tile Finisher \$ 31.71

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour: \$ 16.97

OVERTIME PAY

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

*Note - Or other conditions beyond the employer's control such as fire or natural disaster.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

1200 hours 1st and 2nd term and 1300 hours 3rd term at the following wage:

1st	2nd	3rd
\$ 20.17	\$ 22.94	\$ 26.02

Supplemental benefits per hour:

1st	2nd	3rd
\$ 8.94	\$ 11.05	\$ 12.87

5-3TF - Z3

Mason - Tile Setter

10/01/2022

JOB DESCRIPTION Mason - Tile Setter

DISTRICT 5

ENTIRE COUNTIES

Erie, Niagara, Orleans

PARTIAL COUNTIES

Cattaraugus: Only in the Township of Perrysburg and the Village of Gowanda.

WAGES

Per hour: 07/01/2022
Building:
Marble, Slate, Terrazzo and Tile Setter \$ 34.85

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour: \$ 31.23

OVERTIME PAY

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

*Note - Or other conditions beyond the employer's control such as fire or natural disaster.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

1250 hour terms at the following wage:

1st	2nd	3rd	4th
\$ 27.08	\$ 27.50	\$ 29.12	\$ 32.54

Supplemental benefits per hour:

1st	2nd	3rd	4th
\$ 12.47	\$ 18.68	\$ 23.69	\$ 26.91

5-3TS - Z3

Millwright

10/01/2022

JOB DESCRIPTION Millwright

DISTRICT 6

ENTIRE COUNTIES

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

WAGES

THE FOLLOWING RATE APPLIES TO ANY GAS/STEAM TURBINE AND OR RELATED COMPONENT WORK, INCLUDING NEW INSTALLATIONS OR MAINTENANCE AND ANY/ALL WORK PERFORMED WITHIN THE PROPERTY LIMITS OF A NUCLEAR FACILITY.

Per hour: 07/01/2022
Millwright - Power Generation \$ 41.23

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

- Certified Welders shall receive an additional \$1.75 per hour provided he/she is directed to perform certified welding.
- If a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) are required, then that employee shall receive an additional \$1.50 per hour.
- An employee performing the work of a machinist shall receive an additional \$2.00 per hour. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional \$1.00 per hour.

SUPPLEMENTAL BENEFITS

Per hour paid:

Journeyman \$ 26.72*

*NOTE: Subject to OT premium

OVERTIME PAY

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

*NOTE - Saturday may be used as a make-up day and worked at the straight time rate of pay during a work week when conditions such as weather, power failure, fire, or natural disaster prevent the performance of work on a regular scheduled work day.

HOLIDAY

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

NOTE: Any holiday that falls on Sunday shall be observed the following Monday. Any holiday that falls on Saturday shall be observed the preceding Friday.

REGISTERED APPRENTICES

WAGES per hour: One year terms at the following percentage of Journeyman's wage:

Appr. 1st year	65 %*
Appr. 2nd year	75 %*
Appr. 3rd year	80 %*
Appr. 4th year	90 %*

*NOTE: Additional premium for the following work listed below:

Certified Welder	\$ 1.75
Hazardous Waste Work	1.50
Machinist	2.00
Underground (500' and below)	1.00

SUPPLEMENTAL BENEFITS per hour:

Appr. 1st year	\$ 11.83
Appr. 2nd year	22.26
Appr. 3rd year	23.74
Appr. 4th year	25.24

6-1163Power

Millwright

10/01/2022

JOB DESCRIPTION Millwright

DISTRICT 12

ENTIRE COUNTIES

Erie, Genesee, Niagara

WAGES

Per hour: 07/01/2022

Building	\$ 36.65
Heavy & Highway*	38.65

*All Heavy & Highway Millwright construction will be paid at the rate indicated above. H/H work performed on hazardous waste sites where employees are required to wear protective gear shall receive an additional \$2.00 per hour over the Millwright H/H rate for all hours worked on the day protective gear was worn.

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

- Certified Welders shall receive \$1.75 per hour in addition to the current Millwright's rate provided he/she is directed to perform certified welding.
- If a building work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) are required, then that employee shall receive a \$1.50 premium per hour.
- An employee performing the work of a machinist shall receive \$2.00 per hour in addition to the current Building & Heavy Millwright's rate. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional \$1.00 per hour.

SUPPLEMENTAL BENEFITS

Per hour Paid:

All Classifications	\$ 30.37
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OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

1300 hour terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour worked:

1st	2nd	3rd	4th
\$12.28	\$ 24.95	\$ 26.75	\$ 28.57

12-1163-Gen/Nia/Orl/Wyo

Operating Engineer - Building

10/01/2022

JOB DESCRIPTION Operating Engineer - Building

DISTRICT 12

ENTIRE COUNTIES

Cattaraugus, Chautauqua, Erie, Niagara, Orleans, Wyoming

PARTIAL COUNTIES

Genesee: Only that portion of the county that lies west of a line down the center of Route 98 excluding that area that lies within the City of Batavia.

WAGES

CLASS A: Air Hoist, All Boom Type Equipment, All Pans and Carry-Alls, Archer Hoist, Asphalt Curb and Gutter Machines, Asphalt Roller, Asphalt Spreader or Paver, Automatic Fine Grade Machine (CMI or similar, first and second operator), Backhoe and Pullhoe, Backhoe and Pullhoe (tractor mounted, rubber tired), Back Filling Machine, Belt Placer (CMI or similar type), Bending Machine (Pipe), Bituminous Spreader and Mixer, Blacktop Plants (Automated and Non-automated), Blast or Rotary Drill (Truck or Track Mounted), Blower for Burning Brush, Boiler (when used for power), Boom Truck (excluding pick-up and delivery), Boring Machine, Bulldozer, Cableway, Cage Hoist, Caisson Auger, Central Mix Plant (and all concrete batching plants), Cherry Picker, Concrete Cleaning Decontamination Machine Operator, Concrete Curb and Gutter Machine, Concrete Curing Machine, Concrete Cutters (Vermeer or Similar Type), Concrete Mixer (over 1/2 cu yd.), Concrete Pavement Spreaders and Finishers, Concrete Paver, Concrete Pump, Conveyor, Core Drill, Crane, Crusher, Decon of Equipment, Derrick, Dragline, Dredge, Drill Rig (Tractor Mounted), Dual Drum Paver, Electric Pump used in conjunction with Well Point Systems, Elevating Grader (self propelled or towed), Elevator, Excavator (all purpose, hydraulically operated), Farm Tractor with Accessories, Fine Grade Machine, Forklift, Front End Loader, Generator (10 outlets or more), Gradall, Grader, Grout or Guniting Machine, Head Tower, Heavy Equipment Robotics Operator/Mechanic, Helicopter (when used for hoisting), Hoist (one drum), Hoisting Engine, Horizontal Directional Drill Locator, Horizontal Directional Drill Operator, Hydraulic Boom, Hydraulic Hammer (self-propelled), Hydraulic Pipe Jack Machine (or similar type machine), Hydraulic Rock Expander (or similar type machine), Hydraulic System Pumps, Hydro Crane, Hydro Hammer (or similar type), Industrial Tractor, Jersey Spreader, Kolman Plant Loader (and similar type loaders), Laser Screed, Locomotive, Lubrication Truck, Maintenance Engineer, Maintenance, Lubrication Unit or Truck, Mine Hoist, Mixer for Stabilized Base (self-propelled), Monorail, Motorized Hydraulic Pin Puller, Motorized Hydraulic Seeder, Mucking Machine, Mulching Machine, Multiple Drum Hoist (more than one drum in use), Overhead Crane, Peine Crane (or similar type), Pile Driver, Plant Engineer, Pneumatic Mixer, Post Hole Digger and Driver, Power Broom, Pumpcrete, Push Button Hoist, Push or Snatch Cat, Quarry Master or equivalent, Road Widener, Rock Bit Sharpener (all types), Roller (all), Rolling Machine (pipe), Rotomill, Scissors Trucks, Lift, or Boom Lift of any type (when used for hoisting), Scoopmobile, Shovel, Sideboom, Skidsteer/Bobcat (Similar Type), Skimmer, Slip Form Paver (CMI or similar type), Snorkel/Vacuum Truck, Strato-Tower, Stump Chipping Machine, Tire Truck and Drivers performing tire repair (exclude outside vendor), Towed Roller, Tractor Drawn Belt-Type Grader/Loader, Tractor Shovel, Tractor with Towed Accessories, Tractor (when using winch power), Tractors, Trencher, Truck Crane, Truck Mechanic and Helper (exclude Teamsters when repairing their own trucks), Tunnel Shovel, Tube Finisher (CMI and similar type), Ultra High Pressure Waterjet Cutting Tool System Operator/Mechanic, Vacuum Blasting Machine Operator/Mechanic, Vibratory Compactor, Vibro Tamp, Well Drilling Machine, Well Point, Winch, Winch Truck with A Frame.

CLASS B: Aggregate Bin, Aggregate Plant, Apprentice Engineer, Apprentice Engineer Driver, Articulated Off Road Material Hauler, Boiler (used in conjunction with production), CMI and similar type Concrete Spreads (Apprentice Engineer), Cement Bin, Chipping Machine and Chip Spreader, Compressors (4 or less), Compressors (any size, but subject to other provisions for Compressors, Dust Collectors, Generators, Mechanical Heaters, Pumps, Welding Machines - four of any type or combination), Concrete Mixer (1/2 cu. yd. and under), Fireman, Form Tamper, Form Trucks (excluding Teamster or delivery), Fuel Truck or Drivers (exclude Teamster or delivery), Heaters, Heating Boiler (used for temporary heat), Helper on Lubrication Unit or Truck, Jeep Trencher, Power Heaterman, Power Plant in excess of 10 K.W., Pumps, Revinus Widener, Steam Boilers (if manning or license by local law is required), Steam Cleaner (when used for cleaning equipment on the job site), Welding Machine (1 machine over 300 amps or 2 or 3 machines regardless of amps).

Operating Engineer- Building:

Per hour:	07/01/2022
Class A	\$ 40.23
Class B	35.57
Crane(Up to 60 Tons)	42.73
" (61 to 199 Tons)	43.73

" (200 to 399 Tons)	44.23
" (400 Tons or more)	44.73

Additional \$5.00/hr. for Any Tower Crane
 Additional \$2.50/hr. for Hazardous Work Site
 Additional \$1.00/hr. for Tunnel Work
 Additional \$2.25/hr. for Agency Mandated Shift Work

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyman \$ 32.65**

**Note: For Overtime Hours \$24.20 of this amount is paid a straight time, the remaining balance of \$8.45 is paid at the same premium as the wage.

OVERTIME PAY

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

* Only Saturdays between October 15th and April 15th.

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

1 year Terms

1st	2nd	3rd	4th
\$29.63	\$30.55	\$31.47	\$32.39

Supplemental benefits Per Hour:

All Apprentices \$31.75**

**Note: For Overtime Hours \$24.20 of this amount to be paid a straight time rate remaining balance of \$7.55 is paid at same premium as the wage.

12-17b

Operating Engineer - Heavy&Highway

10/01/2022

JOB DESCRIPTION Operating Engineer - Heavy&Highway

DISTRICT 12

ENTIRE COUNTIES

Chautauqua, Erie, Niagara, Orleans

WAGES

Marine Construction/Dredging

Class 1: Diver/Wet Tender, Engineer, Engineer(hydraulic dredge), Blaster.

Class 2(A): Crane, Backhoe Operator, Material Handler, ALL Self-propelled Drill Rigs, Mechanic/Welder, Asst. Engineer(hydraulic dredge), Leverman(hydraulic dredge), Diver/Dry Tender.

Class 2(B): Friction, Lattice Boom, or Crane License Certificate, Endorse Tug or Tow Boat Operator.

Class 3: Deck Equipment Operator, (Machineryman), Maintenance of Crane, Tug/Launch Operator, Loader/Dozer on Barge.

Class 4: Deck Equipment Operator and Machinery Man/Fireman on 4 equipment units or more, Off Road Trucks, Deck Hand, Tug Engineer, Crane Maintenance(50 tons and under/ backhoe 115,000lbs or less), Asst. Tug Operator, Blaster Helper.

Per hour: 07/01/2022

Class 1	\$ 48.80
Class 2(A)	47.30
Class 2(B)	50.30
Class 3	42.10
Class 4	35.00

Hazardous/Toxic Waste based on EAP Levels

Additional:

Level A - \$2.50/Hr.

Level B - 2.00/Hr.
Level C - 1.00/Hr.
Level D - 0.50/Hr.

SUPPLEMENTAL BENEFITS

Per Hour Paid:

ALL CLASSES \$ 32.04

OVERTIME PAY

See (B, E, I, *S) on OVERTIME PAGE

* If the Holiday is Worked

HOLIDAY

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

12-17 Marine

Operating Engineer - Heavy&Highway

10/01/2022

JOB DESCRIPTION Operating Engineer - Heavy&Highway

DISTRICT 12

ENTIRE COUNTIES

Cattaraugus, Chautauqua, Erie, Niagara, Orleans, Wyoming

PARTIAL COUNTIES

Genesee: Only that portion of the county that lies west of a line down the center of Route 98 excluding that area that lies within the City of Batavia.

WAGES

CLASS A: Air Hoist, All Boom Type Equipment, All Pans and Carry-All's, Asphalt Curb and Cutter Machines, Asphalt Roller, Asphalt Spreader or Paver, Automatic Fine Grade Machine (CMI or similar, first and second operator), Backhoe and Pullhoe (all), Back Filling Machine, Belt Placer (CMI or similar type), Bending Machine (pipe), Bituminous Spreader and Mixer, Blacktop Plant (all), Blast or Rotary Drill (Truck or Track Mounted), Blower for Burning Brush, Boiler (when used for power), Boom Truck, Boring Machine, Bulldozer, Cableway, Cage Hoist, Caisson Auger, Central Mix Plant (and all Concrete Batching Plants), Cherry Picker, Concrete Cleaning Decontamination Machine, Concrete Curb and Gutter Machine, Concrete Curing Machine, Concrete Mixer (over 1/2 cu. yd.), Concrete Pavement Spreaders and Finishers, Concrete Paver, Concrete Pump, Concrete Saw (self propelled), Conveyor, Convoying Vehicles Convoying Engineer's Equipment, Core Drill, Crane, Crusher, Decontamination of Equipment, Derrick, Dragline, Dredge, Drill Rig (Tractor Mounted), Dual Drum Paver, Electric Pump used in conjunction with Well Point Systems, Elevating Grader (self propelled or towed), Elevator, Excavator (all purpose, hydraulically operated), Farm Tractor with Accessories, Fine Grade Machine, Forklift, Front End Loader, Gradall, Grader, Grout or Guniting Machine, Head Tower, Heavy Equipment Robotics Operator/Mechanic, Hoist (all types), Hoisting Engine, Horizontal Directional Drill Locator, Horizontal Directional Drill Operator, Hydraulic Boom, Hydraulic Hammer (self propelled), Hydraulic Pipe Jack Machine, (or similar type machine), Hydraulic Rock Expander (or similar type machine), Hydraulic System Pumps, Industrial Tractor, Jersey Spreader, Kolman Plant Loader (and similar type Loaders), Laser Screed, Locomotive, Log Skidder (similar type), Maintenance Engineer, Maintenance, Lubrication Unit or Truck, Mine Hoist, Mixer for Stabilized Base (self propelled), Monorail, Motorized Hydraulic Pin Puller, Motorized Hydraulic Seeder, Mucking Machine, Mulching Machine, Overhead Crane, Parts Chasing, Peine Crane (or similar type), Pile Driver, Plant Engineer, Pneumatic Mixer, Post Hole Digger and Post Driver, Power Broom, Pump Crete, Push Button Hoist, Push or Snatch Cat, Quarry Master (or equivalent), Road Widener, Rock Bit Sharpener (all types), Roller (all), Rolling Machine (Pipe), Rotomill, Scoopmobile, Shovel, Side Boom, Skidsteer/Bobcat (similar type), Skimmer, Slip Form Paver (CMI or similar, first and second operator), Snorkel/Vacuum Truck, Strato-Tower, Tire Truck & Repair, Towed Roller, Tractor Drawn Belt-Type Grader/Loader, Tractor Shovel, Tractor with Towed Accessories, Tractors (when using winch power), Trencher, Truck Crane, Tug Boats, Tunnel Shovel, Tube Finisher (CMI and similar), Vacuum Blasting Machine Operator/Mechanic, Vibratory Compactor, Vibro Tamp, Waterjet Cutting Tool System Operator/Mechanic (Ultra High Pressure), Well Drilling Machine, Well Point, Winch, Winch Truck with A Frame.

CLASS B: Aggregate Bin, Aggregate Plant, Apprentice Engineer, Apprentice Engineer Driver, Articulated Off Road Material Hauler, CMI and similar type Concrete Spreads (Apprentice Engineer), Cement Bin, Chipping Machine and Chip Spreader, Compressors (4 or less), Compressors: any size, but subject to other provisions for Compressors, Dust Collectors, Generators, Mechanical Heaters, Pumps, Welding Machines (four of any type or combination), Concrete Mixer (1/2 cu. yd. and under), Fireman, Form Tamper, Fuel Truck, Heating Boiler (used for temporary heat), Helper on Lubrication Unit or Truck, Jeep Trencher, Power Heaterman, Power Plant in excess of 10 K.W., Pumps (4" or over), Revinius Widener, Steam Cleaner, Stump Chipping Machine, Welding Machine (1 machine over 300 amps or 2 or 3 machines regardless of amps).

Operating Engineer- Heavy/Highway, Sewer/Water, Tunnel:

Per hour:	07/01/2022
Class A	\$ 41.39
Class B	36.89
Crane 5 to 60 tons	44.39
" 61 to 199 tons	44.89
" 200 to 399 tons	45.39
" 400 and over	45.89

Additional \$2.50/hr. for Hazardous Work Site

Additional \$1.00/hr. for Tunnel Work
Additional \$4.00/hr. for Agency Mandated Off-Shift Work

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 34.26*

*Note: For Overtime Hours \$26.06 of the amount paid at straight time, the remaining balance of 8.20 is paid at the same premium as the wage.

OVERTIME PAY

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

HOLIDAY

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

*Saturday Holidays will be recognized on the Friday before

**Sunday Holidays will be recognized on the Monday after

REGISTERED APPRENTICES

Wages per hour:

Apprentices at 1 year terms

1st	2nd	3rd	4th
\$33.89	\$34.89	\$35.89	\$36.89

Supplemental Benefits

All Apprentices \$ 33.86*

*Note: For Overtime Hours \$26.06 of the amount paid at straight time, the remaining balance of \$7.80 is paid at same premium as the wage.

12-17 hh/sw/t

Operating Engineer - Survey Crew

10/01/2022

JOB DESCRIPTION Operating Engineer - Survey Crew

DISTRICT 12

ENTIRE COUNTIES

Cattaraugus, Chautauqua, Erie, Niagara, Orleans, Wyoming

PARTIAL COUNTIES

Genesee: Only that portion of the county that lies west of a line down the center of Route 98 excluding that area that lies within the City of Batavia.

WAGES

These rates apply to Building, Heavy and Highway Construction.

Per hour:

SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.

Instrument Person - One who operates the surveying instruments.

Rod Person - One who holds the rods and assists the Instrument Person.

07/01/2022

Party Chief	\$ 45.62
Instrument Person	43.01
Rod Person	29.78

Additional \$3.00 per hr. for work in a Tunnel.

Additional \$2.50 per hr. for EPA or DEC certified toxic or hazardous waste work.

SUPPLEMENTAL BENEFITS

Per hour worked:

Journeyman \$ 29.60

OVERTIME PAY

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

*Note: \$24.25 Only for "ALL" premium hours paid.

HOLIDAY

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

REGISTERED APPRENTICES

WAGES: 1000 hour terms based on the Percentage of Rod Person wage:

07/01/2022

0-1000 Hrs	60%
1001-2000 Hrs	70%
2001-3000 Hrs	80%

SUPPLEMENTAL BENEFITS per hour worked:

0-1000 Hrs	\$ 17.76 / PHP \$14.55
1001-2000 Hrs	20.72 / " 16.98
2001-3000 Hrs	23.68 / " 19.40

NOTE: PHP is premium hours paid when worked.

12-17D Sur

Operating Engineer - Survey Crew - Consulting Engineer

10/01/2022

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer

DISTRICT 12

ENTIRE COUNTIES

Cattaraugus, Chautauqua, Erie, Niagara, Orleans, Wyoming

PARTIAL COUNTIES

Genesee: Only that portion of the county that lies west of a line down the center of Route 98 excluding that area that lies within the City of Batavia.

WAGES

These rates apply to feasibility and preliminary design surveying, line of grade surveying for inspection or supervision of construction when performed under a Consulting Engineer Agreement.

Per hour:

SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.

Instrument Person - One who operates the surveying instruments.

Rod Person - One who holds the rods and assists the Instrument Person.

07/01/2022

Party Chief	\$ 45.62
Instrument Person	43.01
Rod Person	29.78

SUPPLEMENTAL BENEFITS

Per hour worked:

Journeyman	\$ 29.60
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OVERTIME PAY

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

*Note: \$24.25 Only for "ALL" premium hours paid.

HOLIDAY

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

REGISTERED APPRENTICES

WAGES: 1000 hour terms based on the Percentage of Rod Persons Wage:

07/01/2022

0-1000	60%
1001-2000	70%
2001-3000	80%

SUPPLEMENTAL BENEFITS per hour worked:

0-1000	\$ 17.76 / PHP \$14.55
1001-2000	20.72 / " 16.98
2001-3000	23.68 / " 19.40

NOTE: PHP is premium hours paid.

12-17D Con Eng

Painter

10/01/2022

JOB DESCRIPTION Painter

DISTRICT 3

ENTIRE COUNTIES

Allegany, Erie, Genesee, Niagara, Orleans, Wyoming

PARTIAL COUNTIES

Cattaraugus: Entire County except the Townships of Conewango, Leon, Napoli, New Albion, Randolph and South Valley.

Chautauqua: Only the Townships of Awkright, Dunkirk, Hanover, Pomfret, Portland, Sheridan and Villenova.

Livingston: Only the Townships of North Dansville, Nunda, Ossian, Portage, Sparta, Spring Water and West Sparta.

Steuben: Only the Townships of Avoca, Canisteo, Cohocton, Dansville, Fremont, Greenwood, Hartsville, Hornellsville, Howard, Jasper, Prattsburg, Pulteney, Troupsburg, Tuscarora, Urbana, Wayland, Wayne, Woodhull, West Union, Wheeler, and the City of Hornell.

WAGES

Per hour: 07/01/2022

Basic Rate (Brush & Roll)	\$ 29.27
Spray painting, wallcovering	29.27
Abrasive and hydroblasting	29.27
Taping/DryWall Finisher	29.97
Skeleton Steel*	30.02

* Skeleton Steel: No floors, walls or ceiling are constructed, including radio and television towers, flagpoles, smokestacks, cranes and the abatement of coatings with lead, asbestos and/or arsenic, etc. All work within the confines of a plant shall be paid the skeleton steel rate (except in-plant tank work (see Tank Rate)).

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.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour: \$ 26.45

OVERTIME PAY

Exterior work only See (B, E4, F*, R) on OVERTIME PAGE.

All other work See (B, F*, R) on OVERTIME PAGE.

* Note - Saturday is payable at straight time if the employee misses work, except where a doctor's or hospital verification of illness is produced Monday through Friday when work was available to the employee.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

Painter/Decorator: 750 hour terms at the following percentage of Journeyman's Basic wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 18.00	\$ 19.00	\$ 20.00	\$ 21.00	\$ 22.00	\$ 23.00	\$ 24.00	\$ 25.00

Taper/Drywall Finisher: 750 hour terms at the following percentage of Journeyman's Taper wage:

1st	2nd	3rd	4th	5th	6th
\$ 20.00	\$ 21.00	\$ 22.00	\$ 23.00	\$ 24.00	\$ 25.00

Supplemental benefits per hour:

Painter/Decorator and Taper/Drywall Finisher:

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 3.35	\$ 5.35	\$ 6.35	\$ 6.85	\$ 7.35	\$ 7.85	\$ 8.35	\$ 8.60

3-4-Buf, Nia, Olean

Painter

10/01/2022

JOB DESCRIPTION Painter

DISTRICT 3

ENTIRE COUNTIES

Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Cortland, Delaware, Erie, Genesee, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Wayne, Wyoming, Yates

WAGES

Per hour: 07/01/2022

Bridge	\$ 41.06
Tunnel	41.06
Tank*	39.06

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.

Tank rate applies to indoor and outdoor tanks, tank towers, standpipes, digesters, waste water treatment tanks, chlorinator tanks, etc. Covers all types of tanks including but not limited to steel tanks, concrete tanks, fiberglass tanks, etc.

Note an additional \$1.50 per hour is required when the contracting agency or project specification requires any shift to start prior to 6:00am or after 12:00 noon.

SUPPLEMENTAL BENEFITS

Per hour: \$ 29.89

OVERTIME PAY

Exterior work only See (B, E4, F*, R) on OVERTIME PAGE.

All other work See (B, F*, R) on OVERTIME PAGE.

*Note - Saturday is payable at straight time if the employee misses work, except where a doctor's or hospital verification of illness is produced Monday through Friday when work was available to the employee.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

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

1st	2nd	3rd	4th	5th	6th
\$ 24.00	\$ 26.00	\$ 28.00	\$ 30.00	\$ 34.00	\$ 38.00

Supplemental benefits per hour:

1st	2nd	3rd	4th	5th	6th
\$ 6.60	\$ 6.95	\$ 7.30	\$ 7.65	\$ 8.00	\$ 8.35

3-4-Bridge, Tunnel, Tank

Painter - Metal Polisher

10/01/2022

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

	07/01/2022
Metal Polisher	\$ 37.78
Metal Polisher*	38.80
Metal Polisher**	41.78

*Note: Applies on New Construction & complete renovation

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

SUPPLEMENTAL BENEFITS

Per Hour: 07/01/2022

Journeyworker:
 All classification \$ 11.24

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:

	07/01/2022
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	\$ 7.99
2nd year	7.99
3rd year	7.99

8-8A/28A-MP

Plumber

10/01/2022

JOB DESCRIPTION Plumber

DISTRICT 3

ENTIRE COUNTIES

Erie, Niagara, Wyoming

PARTIAL COUNTIES

Allegany: Only the Townships of Allen, Angelica, Belfast, Caneadea, Centerville, Granger, Hume, New Hudson and Rushford
Cattaraugus: Only the Townships of Ashford, Dayton, East Otto, Ellicottville, Farmersville, Franklinville, Freedom, Leon, Lyndon, Machias, Mansfield, New Albion, Otto, Perrysburg, Persia and Yorkshire.
Chautauqua: Only the Townships of Arkwright, Charlotte, Cherry Creek, Dunkirk, Hanover, Pomfret, Portland, Ripley, Sheridan, Stockton, Villenova, Westfield, City of Dunkirk and Village of Fredonia.
Genesee: Only the Townships of Alabama, Alexander, Batavia, Darien, Elba, Oakfield, Pembroke and the City of Batavia.
Orleans: Only the Townships of Ridgeway, Shelby and Yates.

WAGES

Per hour: 07/01/2022

Plumber	\$ 38.05
Steamfitter	\$ 38.05

Note - Add 10% (ten-percent) to wage when HAZMAT training is required or when OSHA compliant respirator protection is required.

SUPPLEMENTAL BENEFITS

Per hour:

\$ 28.20

Note - \$4.64 of this amount must be paid at the same premium as the wage.

OVERTIME PAY

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

* Double time after 11 hours per day on Weekdays.

** Double time after 10 hours per day on Saturday.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th	5th
45%	55%	65%	75%	90%

Note - Add 10% (ten-percent) to wage when HAZMAT training is required or when OSHA compliant respirator protection is required.

Supplemental benefits per hour:

\$ 23.40

Note - \$4.64 of this amount must be paid at the same premium as the wage.

3-22-Buffalo, Niagara

Roofer

10/01/2022

JOB DESCRIPTION Roofer

DISTRICT 3

ENTIRE COUNTIES

Erie, Genesee, Niagara, Orleans, Wyoming

WAGES

Per hour: 07/01/2022

Asbestos Removal	\$ 34.96
Slate, Tile	32.11
Precast tile / slabs	32.11
Crete / gypsum planks	32.11
Damp and waterproofer	31.96
Composition, sprayers,	31.96
Asphalt mastic,	31.96
Steep roofers	31.96

When shift work is mandated either in the job specification or by the contracting agency the following premiums apply:

15.0% for work from 4:30PM - 1:00AM or second shift

20.0% for work from 12:30AM - 9:00AM or third shift

SUPPLEMENTAL BENEFITS

Per hour: \$ 24.76

OVERTIME PAY

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

* and ** Double time after 8 hours on Saturday.

HOLIDAY

Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES

Wages per hour:

Hour terms at the following percentage of Journeyman's wage:

0 to 999	to 1499	to 1999	to 2499	to 2999	to 3499	to 4499
65%	70%	75%	80%	85%	90%	95%

Supplemental benefits per hour:

0 to 999	to 1499	to 1999	to 2499	to 2999	to 3499	to 4499
\$ 9.70	\$ 13.87	\$ 14.10	\$ 21.92	\$ 22.63	\$ 23.34	\$ 24.05

3-74

Sheetmetal Worker

10/01/2022

JOB DESCRIPTION Sheetmetal Worker

DISTRICT 3

ENTIRE COUNTIES

Erie, Genesee, Niagara, Orleans, Wyoming

WAGES

Per hour: 07/01/2022

Sheet Metal Worker \$ 37.44

Additional \$0.50 per hour for work more than 30" above floor on boatswain chair.
Additional \$1.00 per hour for work in "Hot" areas of atomic laboratories, atomic plants, or any premises where radio-active materials are stored or handled and personal protective equipment is required.
Additional \$1.00 per hour for work when required to have 40-hour HAZMAT training or the use of OSHA compliant respirator is required.

When shift work is mandated either in the job specification or by the contracting agency the following premiums apply:

Shift Premium per hour:

Second Shift \$ 3.25
Third Shift \$ 5.00

SUPPLEMENTAL BENEFITS

Per hour:

\$ 27.63*

* Note - \$17.73 of this amount must be paid at the same premium as the wages per overtime hours.

OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour:

One year terms at the following wage:

1st term \$ 19.59
2nd term 23.94
3rd term 26.51
4th term 28.07
5th term 31.19

Supplemental benefits per hour:

1st term \$ 17.10 Note - \$8.20 of this amount must be paid at the same premium as the wage.
2nd term 20.82 Note - \$11.92 of this amount must be paid at the same premium as the wage.
3rd term 25.46 Note - \$15.56 of this amount must be paid at the same premium as the wage.
4th term 25.77 Note - \$15.87 of this amount must be paid at the same premium as the wage.
5th term 26.39 Note - \$16.49 of this amount must be paid at the same premium as the wage.

When shift work is mandated either in the job specification or by the contracting agency the following premiums apply;

Shift Premium per hour:

Second Shift

1st term \$ 1.46
2nd term \$ 1.63
3rd term \$ 1.79
4th term \$ 2.28
5th term \$ 2.60

Third Shift

1st term \$ 2.25
2nd term \$ 2.50
3rd term \$ 2.75
4th term \$ 3.50
5th term \$ 4.00

3-71

Sprinkler Fitter

10/01/2022

JOB DESCRIPTION Sprinkler Fitter

DISTRICT 1

ENTIRE COUNTIES

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

WAGES

Per hour 07/01/2022

Sprinkler \$ 38.15
 Fitter

SUPPLEMENTAL BENEFITS

Per hour

Journey person \$ 27.68

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
\$ 18.30	\$ 20.34	\$ 22.12	\$ 24.15	\$ 26.19	\$ 28.22	\$ 30.25	\$ 32.29	\$ 34.32	\$ 36.35

Supplemental Benefits per hour

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$ 8.37	\$ 8.37	\$ 19.76	\$ 19.76	\$ 20.01	\$ 20.01	\$ 20.01	\$ 20.01	\$ 20.01	\$ 20.01

1-669

Teamster - Building / Heavy&Highway 10/01/2022

JOB DESCRIPTION Teamster - Building / Heavy&Highway

DISTRICT 3

ENTIRE COUNTIES

Erie, Niagara

PARTIAL COUNTIES

Genesee: Only in the Townships of Alabama, Darien and Pembroke.

Orleans: Only the Townships of Ridgeway, Shelby and Yates.

Wyoming: Only in the Townships of Arcade, Bennington, Java and Sheldon.

WAGES

GROUP 1: Warehousemen, Yardmen, Truck Helpers, Pickups, Panel Trucks, Flatboy Material Trucks (straight jobs), Single Axle Dump Trucks, Dumpsters, Material Checkers and Receivers, Greasers, Truck Tiremen, Mechanics Helpers and Parts Chasers.

GROUP 2: Tandems and Batch Trucks, Mechanics, Dispatcher.

GROUP 3: Semi-Trailers, Low-Boy Trucks, Asphalt Distributor Trucks and Agitator, Mixer Trucks and dumpcrete type vehicles, Truck Mechanic, Fuel Trucks

GROUP 4: Specialized Earth Moving Equipment, Euclid type, or similar off-highway, where not self-loading, Straddle (Ross) Carrier, and self-contained concrete mobile truck.

GROUP 5: Off-highway Tandem Back-Dump, Twin Engine Equipment and Double-Hitched Equipment where not self-loading.

Per hour: 07/01/2022

All GROUPS \$ 43.22

Add \$2.00 when required to use personal protection when performing hazardous waste removal work.

An additional \$3.00 per hour is required when a single irregular work shift starting any time from 5:00PM to 1:00AM is mandated either in the job specification or by the contracting agency.

SUPPLEMENTAL BENEFITS

Per hour:

\$ 16.19*

*Note - Only \$ 7.66 per hour needs to be paid for overtime hours.

OVERTIME PAY

See (B, G, P) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE

3-449

Teamster - Building / Heavy&Highway

10/01/2022

JOB DESCRIPTION Teamster - Building / Heavy&Highway

DISTRICT 3

ENTIRE COUNTIES

Erie, Niagara

WAGES

Per hour: 07/01/2022
Dump Truck Operator* \$ 27.00

*Does not include Single Axle Dump Trucks (see Teamster Group 1).

*Does not include Off-highway Dump Trucks (see Teamster Groups 2-5).

SUPPLEMENTAL BENEFITS

Per hour: \$ 2.02

OVERTIME PAY

See (B, B2, Q) on OVERTIME PAGE

HOLIDAY

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

3-449d-DT

Welder

10/01/2022

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 07/01/2022

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 12240**

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)

- | | |
|---|--|
| <input type="checkbox"/> 01 DOT | <input type="checkbox"/> 07 City |
| <input type="checkbox"/> 02 OGS | <input type="checkbox"/> 08 Local School District |
| <input type="checkbox"/> 03 Dormitory Authority | <input type="checkbox"/> 09 Special Local District, i.e.,
Fire, Sewer, Water District |
| <input type="checkbox"/> 04 State University
Construction Fund | <input type="checkbox"/> 10 Village |
| <input type="checkbox"/> 05 Mental Hygiene
Facilities Corp. | <input type="checkbox"/> 11 Town |
| <input type="checkbox"/> 06 OTHER N.Y. STATE UNIT | <input type="checkbox"/> 12 County |
| | <input type="checkbox"/> 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 :

- | | |
|--|---|
| <input type="checkbox"/> Construction (Building, Heavy
Highway/Sewer/Water) | <input type="checkbox"/> Guards, Watchmen |
| <input type="checkbox"/> Tunnel | <input type="checkbox"/> Janitors, Porters, Cleaners,
Elevator Operators |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Moving furniture and
equipment |
| <input type="checkbox"/> Landscape Maintenance | <input type="checkbox"/> Trash and refuse removal |
| <input type="checkbox"/> Elevator maintenance | <input type="checkbox"/> Window cleaners |
| <input type="checkbox"/> Exterminators, Fumigators | <input type="checkbox"/> Other (Describe) |
| <input type="checkbox"/> Fire Safety Director, NYC Only | |

9. Has this project been reviewed for compliance 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://applications.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 10/11/2022

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	****6775	ADVENTURE MASONRY CORP.		1535 RICHMOND AVENUE STATEN ISLAND NY 10314	12/13/2017	12/13/2022
DOL	NYC		AGOSTINHO TOME		405 BARRETTO ST BRONX NY 10474	05/31/2018	05/31/2023
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 F COKER		2610 SOUTH SALINA STREET SUITE 14SYRACUSE NY 13205	12/04/2018	12/04/2023
DOL	DOL		ANGELO GARCIA		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL		ANGELO TONDO		449 WEST MOMBSHA 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		ANTONIO ESTIVEZ		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
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	****2591	AVI 212 INC.		260 CROPEY AVENUE APT 11BROOKLYN NY 11214	10/30/2018	10/30/2023
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		BIAGIO CANTISANI			06/12/2018	06/12/2023
DOL	DOL	****3627	BJB CONSTRUCTION CORP.		38 LONG RIDGE ROAD BEDFORD NY 10506	12/18/2019	12/18/2024
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		BRUCE P. NASH JR.		5841 BUTTERNUT ROAD EAST SYRACUSE NY 13057	09/12/2018	09/12/2023
DOL	DOL	****0225	C&D LAFACE CONSTRUCTION, INC.		8531 OSWEGO RD BALDWINVILLE NY 13027	02/03/2020	01/09/2023
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	****9383	C.C. PAVING AND EXCAVATING, INC.		2610 SOUTH SALINA ST SUITE 12SYRACUSE NY 13205	12/04/2018	12/04/2023
DOL	DOL	****4083	C.P.D. ENTERPRISES, INC		P.O BOX 281 WALDEN NY 12586	03/03/2020	03/03/2025

NYSDOL Bureau of Public Work Debarment List 10/11/2022

Article 8

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		CANTISANI & ASSOCIATES LTD		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL		CANTISANI HOLDING LLC			06/12/2018	06/12/2023
DOL	DOL		CARMEN RACHETTA		8531 OSWEGO RD BALDWINVILLE NY 13027	02/03/2020	02/03/2025
DOL	DOL		CARMENA RACHETTA		8531 OSWEGO ROAD BALDWINVILLE NY 13027	02/03/2020	01/09/2023
DOL	DOL	****3812	CARMODY "2" INC			06/12/2018	06/12/2023
DOL	DOL	****1143	CARMODY BUILDING CORP	CARMODY CONTRACTING AND CARMODY CONTRACTING CORP.	442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL		CARMODY CONCRETE CORPORATION			06/12/2018	06/12/2023
DOL	DOL		CARMODY ENTERPRISES, LTD.		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL		CARMODY INC		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL	****3812	CARMODY INDUSTRIES INC			06/12/2018	06/12/2023
DOL	DOL		CARMODY MAINTENANCE CORPORATION		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL		CARMODY MASONRY CORP		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	AG	****7247	CENTURY CONCRETE CORP		2375 RAYNOR ST RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	AG		CESAR J. AGUDELO		81-06 34TH AVENUE APT. 6E JACKSON HEIGHTS NY 11372	02/07/2018	02/07/2023
DOL	DOL	****0026	CHANTICLEER CONSTRUCTION LLC		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	NYC		CHARLES ZAHRADKA		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 J MAINI		19 CAITLIN AVE JAMESTOWN NY 14701	09/17/2018	09/17/2023
DOL	DOL		CHRISTOPHER PASTEFANO A/K/A CHRIS PASTEFANO		1445 COMMERCE AVE BRONX NY 10461	05/30/2019	05/30/2024
DOL	DOL	****1927	CONSTRUCTION PARTS WAREHOUSE, INC.	CPW	5841 BUTTERNUT ROAD EAST SYRACUSE NY 13057	09/12/2018	09/12/2023
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	NYC		DALJIT KAUR BOPARAI		185-06 56TH AVE FRESH MEADOW NY 11365	10/17/2017	10/17/2022
DOL	DOL	****7619	DANCO CONSTRUCTION UNLIMITED INC.		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026
DOL	DOL		DARIAN L COKER		2610 SOUTH SALINA ST SUITE 2CSYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		DARIAN L COKER		2610 SOUTH SALINA ST SUITE 2CSYRACUSE NY 13205	12/04/2018	12/04/2023
DOL	NYC		DAVID WEINER		14 NEW DROP LANE 2ND FLOORSTATEN ISLAND NY 10306	11/14/2019	11/14/2024
DOL	AG		DEBRA MARTINEZ		31 BAY ST BROOKLYN NY 11231	03/28/2018	03/28/2023
DOL	DOL		DELPHI PAINTING & DECORATING CO INC		1445 COMMERCE AVE BRONX NY 10461	05/30/2019	05/30/2024
DOL	DOL		DOMENICO LAFACE		8531 OSWEGO RD BALDWINVILLE NY 13027	02/03/2020	01/09/2023

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DOL	DOL	****5175	EAGLE MECHANICAL AND GENERAL CONSTRUCTION LLC		11371 RIDGE RD WOLCOTT NY 14590	02/03/2020	02/03/2025
DOL	DOL		EAST COAST PAVING		2238 BAKER RD GILLET PA 16923	03/12/2018	03/12/2023
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	DOL		FRANK BENEDETTO		19 CATLIN AVE JAMESTOWN NY 14701	09/17/2018	09/17/2023
DOL	DOL	****4722	FRANK BENEDETTO AND CHRISTOPHER J MAINI	B & M CONCRETE	19 CAITLIN AVE JAMESTOWN NY 14701	09/17/2018	09/17/2023
DOL	NYC		FRANK MAINI		1766 FRONT ST YORKTOWN HEIGHTS NY 10598	01/17/2018	01/17/2023
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	DOL		GEOFF CORLETT		415 FLAGGER AVE #302STUART FL 34994	10/31/2018	10/31/2023
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	DOL		GIOVANNI LAFACE		8531 OSWEGO RD BALDWINVILLE NY 13027	02/03/2020	01/09/2023
DOL	NYC	****3164	GLOBE GATES INC	GLOBAL OVERHEAD DOORS	405 BARRETTO ST BRONX NY 10474	05/31/2018	05/31/2023
DOL	DOL		GREGORY S. OLSON		P.O BOX 100 200 LATTA BROOK PARKHORSEHEADS NY 14845	03/08/2018	03/08/2023
DOL	DOL		HANS RATH		24 ELDOR AVENUE NEW CITY NY 10956	02/03/2020	02/03/2025
DOL	NYC	****3228	HEIGHTS ELEVATOR CORP.		1766 FRONT ST YORKTOWN HEIGHTS NY 10598	01/17/2018	01/17/2023
DOL	DOL	****5131	INTEGRITY MASONRY, INC.	M&R CONCRETE	722 8TH AVE WATERVLIET NY 12189	06/05/2018	06/05/2023
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.A. HIRES CADWALLADER		P.O BOX 100 200 LATTA BROOK PARKHORSEHEADS NY 14845	03/08/2018	03/08/2023
DOL	DOL		JAMES C. DELGIACCO		722 8TH AVE WATERVLIET NY 12189	06/05/2018	06/05/2023
DOL	DOL		JAMES J. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL		JAMES LIACONE		9365 WASHINGTON ST LOCKPORT IL 60441	07/23/2018	07/23/2023
DOL	DOL		JAMES RACHEL		9365 WASHINGTON ST LOCKPORT IL 60441	07/23/2018	07/23/2023
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	03/01/2022	03/01/2027
DOL	DOL	****7993	JBS DIRT, INC.		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026

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DOL	DOL	****5368	JCH MASONRY & LANDSCAPING INC.		35 CLINTON AVE OSSINING NY 10562	09/12/2018	09/12/2023
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	AG		JOHN ANTHONY MASSINO		36-49 204TH STREET BAYSIDE NY 11372	02/07/2018	02/07/2023
DOL	DOL		JOHN F. CADWALLADER		200 LATTA BROOK PARK HORSEHEADS NY 14845	03/08/2018	03/08/2023
DOL	DOL	****4612	JOHN F. CADWALLADER, INC.	THE GLASS COMPANY	P.O BOX 100 200 LATTA BROOK PARKHORSEHEADS NY 14845	03/08/2018	03/08/2023
DOL	DOL		JOHN GOCEK		14B COMMERCIAL AVE ALBANY NY 12065	11/14/2019	11/14/2024
DOL	DOL		JOHN LUCIANO			05/14/2018	05/14/2023
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	AG	****0600	JOHNCO CONTRACTING, INC.		36-49 204TH STREET BAYSIDE NY 11372	02/07/2018	02/07/2023
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		JORI PEDERSEN		415 FLAGER AVE #302STUART FL 34994	10/31/2018	10/31/2023
DOL	DOL		JOSE CHUCHUCA		35 CLINTON AVE OSSINING NY 10562	09/12/2018	09/12/2023
DOL	NYC		JOSEPH MARTINO		1535 RICHMOND AVENUE STATEN ISLAND NY 10314	12/13/2017	12/13/2022
DOL	DOL		JOY MARTIN		2404 DELAWARE AVE NIGARA FALLS NY 14305	09/12/2018	09/12/2023
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	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
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		KATIE BURDICK		2238 BAKER RD GILLETT PA 16923	03/12/2018	03/12/2023
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	****3490	L & M CONSTRUCTION/DRYWALL INC.		1079 YONKERS AVE YONKERS NY 10704	08/07/2018	08/07/2023
DOL	DA	****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		LAVERN GLAVE		161 ROBYN RD MONROE NY 10950	01/30/2018	01/30/2023
DOL	AG	****3291	LINTECH ELECTRIC, INC.		3006 TILDEN AVE BROOKLYN NY 11226	02/16/2022	02/16/2027
DOL	DA	****4460	LONG ISLAND GLASS & STOREFRONTS, LLC		4 MANHASSET TRL RIDGE NY 11961	09/06/2018	09/06/2023
DOL	AG	****4216	LOTUS-C CORP.		81-06 34TH AVENUE APT. 6EJACKSON HEIGHTS NY 11372	02/07/2018	02/07/2023
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

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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		MASONRY CONSTRUCTION, INC.		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL	****3333	MASONRY INDUSTRIES, INC.		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	NYC		MATINA KARAGIANNIS		97-18 50TH AVE CORONA NY 11368	04/19/2018	04/19/2023
DOL	DOL		MATTHEW P. KILGORE		4156 WILSON ROAD EAST TABERG NY 13471	03/26/2019	03/26/2024
DOL	DOL		MAURICE GAWENO		442 ARMONK RD MOUNT KISCO NY 10549	06/12/2018	06/12/2023
DOL	DOL		MICHAEL LENIHAN		1079 YONKERS AVE UNIT 4YONKERS NY 10704	08/07/2018	08/07/2023
DOL	AG		MICHAEL RIGLIETTI		31 BAY ST BROOKLYN NY 11231	03/28/2018	03/28/2023
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	AG		MSR ELECTRICAL CONSTRUCTION CORP.		31 BAY ST BROOKLYN NY 11231	03/28/2018	03/28/2023
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	DA	****9786	NATIONAL INSULATION & GC CORP		180 MILLER PLACE HICKSVILLE NY 11801	12/12/2018	12/12/2023
DOL	DOL	****3684	NATIONAL LAWN SPRINKLERS, INC.		645 N BROADWAY WHITE PLAINS NY 10603	05/14/2018	05/14/2023
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	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 CONSTRUCTION, INC.	444 SCHANTZ ROAD ALLEN TOWN PA 18104	09/17/2020	09/17/2025
DOL	DOL	****1845	OC ERECTERS, LLC A/K/A OC ERECTERS OF NY INC.		1207 SW 48TH TERRACE DEERFIELD BEACH FL 33442	01/16/2018	01/16/2023
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	****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	01/30/2018	01/30/2023
DOL	DOL	****2633	RAW POWER ELECTRIC CORP.		3 PARK CIRCLE MIDDLETOWN NY 10940	07/11/2022	07/11/2027
DOL	AG	****7015	RCM PAINTING INC.		69-06 GRAND AVENUE 2ND FLOORMASPETH NY 11378	02/07/2018	02/07/2023
DOL	DA	****7559	REGAL CONTRACTING INC.		24 WOODBINE AVE NORTHPORT NY 11768	10/01/2020	10/01/2025

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DOL	DOL		REGINALD WARREN		161 ROBYN RD MONROE NY 10950	01/30/2018	01/30/2023
DOL	DOL	****9148	RICH T CONSTRUCTION		107 WILLOW WOOD LANE CAMILLUS NY 13031	11/13/2018	11/13/2023
DOL	DOL		RICHARD MACONE		8617 THIRD AVE BROOKLYN NY 11209	09/17/2018	09/17/2023
DOL	DOL		RICHARD REGGIO		1617 MAIN ST PEEKSKILL NY 10566	03/03/2020	03/03/2025
DOL	DOL	****9148	RICHARD TIMIAN	RICH T CONSTRUCTI ON	108 LAMONT AVE SYRACUSE NY 13209	10/16/2018	10/16/2023
DOL	DOL		RICHARD TIMIAN JR.		108 LAMONT AVE SYRACUSE NY 13209	10/16/2018	10/16/2023
DOL	DOL		RICHARD TIMIAN JR.		108 LAMONT AVE SYRACUSE NY 13209	11/13/2018	11/13/2023
DOL	DOL		ROBBYE BISSEAR		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		RODERICK PUGH		404 OAK ST SUITE 101SYRACUSE NY 13203	07/23/2018	07/23/2023
DOL	DOL	****4880	RODERICK PUGH CONSTRUCTION INC.		404 OAK ST SUITE 101SYRACUSE NY 13203	07/23/2018	07/23/2023
DOL	DOL		ROMEO WARREN		161 ROBYN RD MONROE NY 10950	01/30/2018	01/30/2023
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		ROSEANNE CANTISANI			06/12/2018	06/12/2023
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	****7730	S C MARTIN GROUP INC.		2404 DELAWARE AVE NIAGARA FALLS NY 14305	09/12/2018	09/12/2023
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	NYC		SANDEEP BOPARAI		185-06 56TH AVE FRESH MEADOW NY 11365	10/17/2017	10/17/2022
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
DOL	DOL	****1961	SHANE BURDICK	CENTRAL TRAFFIC CONTROL, LLC.	2238 BAKER ROAD GILLETT PA 16923	03/12/2018	03/12/2023
DOL	DOL		SHANE BURDICK		2238 BAKER ROAD GILLETT PA 16923	03/12/2018	03/12/2023
DOL	DOL		SHANE NOLAN		9365 WASHINGTON ST LOCKPORT IL 60441	07/23/2018	07/23/2023

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DOL	DOL		SHULEM LOWINGER		11 MOUNTAIN ROAD 28 VAN BUREN DRMONROE NY 10950	03/20/2019	03/20/2024
DOL	DOL	****0816	SOLAR ARRAY SOLUTIONS, LLC		9365 WASHINGTON ST LOCKPORT IL 60441	07/23/2018	07/23/2023
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		STEVE TATE		415 FLAGER AVE #302STUART FL 34994	10/31/2018	10/31/2023
DOL	DOL		STEVEN MARTIN		2404 DELWARE AVE NIAGARA FALLS NY 14305	09/12/2018	09/12/2023
DOL	DOL	****3800	SUBURBAN RESTORATION CO. INC.		5-10 BANTA PLACE FAIR LAWN PLACE NJ 07410	03/29/2021	03/29/2026
DOL	NYC	****5863	SUKHMANY CONSTRUCTION, INC.		185-06 56TH AVE FRESH MEADOW NY 11365	10/17/2017	10/17/2022
DOL	DOL	****1060	SUNN ENTERPRISES GROUP, LLC		370 W. PLEASANTVIEW AVE SUITE 2.329HACKENSACK NJ 07601	02/11/2019	02/11/2024
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		TALAILA OCAMPA		1207 SW 48TH TERRACE DEERFIELD BEACH FL 33442	01/16/2018	01/16/2023
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	12/04/2018	12/04/2023
DOL	DOL	****5766	THE COKER CORPORATION	COKER CORPORATIO N	2610 SOUTH SALINA ST SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
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 MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	****6392	V.M.K CORP.		8617 THIRD AVE BROOKLYN NY 11209	09/17/2018	09/17/2023
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

NYS DOL Bureau of Public Work Debarment List 10/11/2022

Article 8

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 DOUGLASTON NY 11363	01/14/2019	01/14/2024
DOL	NYC		VIKTAR PATONICH		2630 CROPSEY AVE BROOKLYN NY 11214	10/30/2018	10/30/2023
DOL	DOL		VIKTORIA RATH		24 ELDOR AVENUE NEW CITY NY 10956	02/03/2020	02/03/2025
DOL	NYC		VITO GARGANO		1535 RICHMOND AVE STATEN ISLAND NY 10314	12/13/2017	12/13/2022
DOL	NYC	*****3673	WALTERS AND WALTERS, INC.		465 EAST AND THIRD ST MT. VERNON NY 10550	09/09/2019	09/09/2024
DOL	DOL	*****3296	WESTERN NEW YORK CONTRACTORS, INC.		3841 LAYNARD COURT NEW PORT RICHEY FL 34652	07/09/2019	07/09/2024
DOL	DOL		WHITE PLAINS CARPENTRY CORP		442 ARMONK RD	06/12/2018	06/12/2023
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	*****4043	WINDSHIELD INSTALLATION NETWORK, INC.		200 LATTA BROOK PARK HORSEHEADS NY 14845	03/08/2018	03/08/2023
DOL	DOL	*****4730	XGD SYSTEMS, LLC	TDI GOLF	415 GLAGE AVE #302STUART FL 34994	10/31/2018	10/31/2023

NAME OF BIDDER

BID SUBMITTED BY:

PROPOSAL FOR:

ELECTRICAL CONSTRUCTION WORK

**ZOELLER RD. PUMPING STATION ELECTRIC
11580 WALDEN AVE.
ALDEN, NY 14004**

TO: **William E. Geary**, Commissioner of Public Works
Erie County Department of Public Works
Rath Building, 95 Franklin Street, Suite 1400, Buffalo, NY 14202

Commissioner Geary:

Pursuant to and in compliance with your advertisement for Bids, the undersigned offers to furnish all materials and all plant, labor, supplies, equipment, transportation and other facilities necessary or proper for, or incidental to the construction work, as required by and in strict accord with the contract documents dated 01/18/2023 entitled: "Zoeller Rd Pumping Station Electric" including all Addenda for the following sum of:

BASE BID (including allowances)

/100 DOLLARS (\$))

Completion: We agree to complete this work within _____ calendar days from the Notice to Proceed.

CAUTION: Be advised that Erie County Local Law No. 3-2018 will be enforced. All bidders submitting bids with a value in excess of \$250,000 must adhere to the provisions detailed within this Proposal and Section 10 of the General Conditions. For consideration, bidders must (1) check the appropriate box and (2) enclose the corresponding paperwork.

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

CAUTION: ERIE COUNTY EXECUTIVE ORDER #18: The project contemplated by these Bid Specifications may be subject to Erie County Executive Order #18 (“EO #18”) which is included along with its Rules and Regulations for reference in Appendix “D” to the General Conditions of this Bid. All bids with a value that meets or exceeds \$250,000 must include a verified attestation of intent to comply and statement of work force. Such attestation and statement is attached hereto. Any bids received which do not include such attestation or include an incomplete attestation will be deemed non-compliant and will not be considered for award. Should it be determined that the project is subject to EO #18, Contractor must provide county with a fully executed and verified Local and Disadvantaged Worker Compliance Certification prior to final execution of an award agreement.

CAUTION: All compliance reporting required for Erie County Local Law No. 3-2018 and Executive Order #18 shall now be completed via LCPtracker. The County will be available to assist with any reasonable training requests and support, as necessary.

NOTE: As of April 6, 2021 the County of Erie is requiring a new experience questionnaire form. Please reference the Information to Bidders, Section 5, included within the project manual for detailed information.

SUMMARY OF WORKFORCE AND MINORITY/WOMEN BUSINESS COMMITMENT

Requirement	Applicable when Contract value meets or exceeds:	Reference
Erie County Executive Order No.18	\$250,000	General Conditions Section 8.08
New York State Certified Apprenticeship Training Program	\$250,000	General Conditions Section 10
Minority/ Women Business Enterprise	\$100,000	General Conditions Section 8.06
General Minority and Women Workforce Goals	All Contracts	General Conditions Section 8.05
Equal Pay Certification	All Contracts	General Conditions Sections 8.04 & 8.07

***Refer to Supplemental General Conditions for any modifications to the above**

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

ALLOWANCES

Certain work is specified in the Contract Documents by allowance. The allowances include: furnishing all materials and all plant, labor, supplies, equipment, transportation and other facilities necessary or proper for, or incidental to the work. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.

Allowance no. A-1: See Allowances: Section 011020

SUBSTITUTIONS

If awarded a contract based on the above proposal, we will use materials and equipment specified with the following exceptions:

<u>ITEMS</u>	<u>MANUFACTURER'S NAME AND PRODUCT DESCRIPTION</u>

It is understood that if any of the above proposed substitutions are not accepted by the Owner, we will furnish the product named in the specifications. Substitutions are not permitted after the award of contract.

ADDENDA:

The foregoing proposal covers the following Addenda:

(Here list, by number, each addendum issued prior to bidding.)

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

NON-COLLUSIVE BIDDING CERTIFICATE.

1. By submission of this bid, the bidder and each person signing on behalf of the bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his or its knowledge and belief:
 - a. The prices in this bid have been arrived at independently with no 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; and
 - b. 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
 - c. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit a bid for the purpose of restricting competition; and
 - d. If the bidder is a corporation, this certificate is and shall be deemed to have been authorized by the board of directors of the bidder, and such authorization is and shall be deemed to include the signing and submission of the bid and the inclusion therein of this certificate of non-collusion as the act and deed of the corporation.

2. Pursuant to 103-d, General Municipal Law, a bid shall not be considered for award nor shall any award be made where the above Non-Collusive Certificate, Paragraphs 1, (A), (B), (C), and (D) have not been complied with, unless explained, justified and legally excused in accordance with said law.

This proposal and/or contract shall be governed by New York State Law.

The undersigned agrees together into a contract for the above stated compensation, under the terms and conditions outlined, plus any other conditions mutually agreed upon.

NAME OF FIRM: _____ Federal Tax ID No.: _____

AUTHORIZED SIGNATURE: _____

PRINTED OR TYPEWRITTEN
NAME OF SIGNATORY: _____

TITLE: _____

ADDRESS: _____

PHONE No.: _____ FAX No.: _____

EMAIL ADDRESS: _____

DATE: _____

SEAL IF BIDDER
IS A CORPORATION

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

To facilitate correct drawing and execution of contract, Bidders shall supply full information concerning legal status as follows:

NAME:

CORPORATION CO-PARTNERSHIP AN INDIVIDUAL TRADE
(Strike out classification not applicable.)

ADDRESS OF PRINCIPAL OFFICE:

Street: _____

City: _____

State: _____

LOCAL BRANCH OFFICE ADDRESS:

INCORPORATED UNDER THE LAWS OF THE STATE OF: _____

If Foreign Corporation, state if authorized to do business in the State of New York: (YES) (NO)

If Co-Partnership, Names of Partners and Addresses are:

_____	_____
_____	_____
_____	_____
_____	_____

If doing business under Trade Name, Assumed Name or Firm Style:

Name of Owner: _____

Certificate Filed: _____

(Place)

(Date)

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

NEW YORK STATE CERTIFIED APPRENTICESHIP
TRAINING PROGRAM CERTIFICATION

Pursuant to Erie County Local Law 3-2018 the following MUST be submitted along with supporting documentation unless the Contracting Agency has otherwise determined under Section 2f of the Erie County Rules and Regulations that the New York State Certified Apprenticeship Training Program does not apply.

TO BE FILLED OUT BY BIDDER: please check that which applies on sign below.

- Enclosed is a copy of the certification of approval of the New York State Certified Apprenticeship Training Program (NYSCATP) by the New York State Department of Labor which, as Bidder, will use in connection with the construction contract. Also Enclosed is a written plan demonstrating how apprentices will be utilized by the Bidder As Prime Contractor or by the Subcontractor(s) to the Bidder as Prime Contractor. Such Plan shall include at a minimum:

Please check all items i through vi to acknowledge compliance:

- i. An organized written plan in place that embodies the terms and conditions of employment, training and supervision of one or more apprentices;
 - ii. A schedule of wages to be paid to the apprentices consistent with the skills required and approved by the New York State Department of Labor;
 - iii. Equal employment and affirmative action plans;
 - iv. Workforce development and diversification goals to ensure that the contractor will diligently work toward a minority workforce goal of 30% minority and female participation combined in project personnel including trades people, trainees, journeymen, apprentices and supervisory staff;
 - v. A minimum of ten percent (10%) of the total construction workers. Trades people, trainees, journeymen, and apprentices employed at any given time on a particular project by any and all contractors or subcontractors must be consist of persons participating in a NYSCATP; and
 - vi. In all cases, such Certified Apprenticeship Training Program must be specific to the type and scope of work which is being performed and must have a graduation rate of at least thirty percent (30%) as determined by the New York State Department of Labor.
- Enclosed is a detailed explanatory written statement as to the inapplicability of Apprenticeship participation due to: the lack of career opportunities in NYSCATP Approved by New York State Department of Labor Commissioner; OR the magnitude of the construction contract which would make use of apprentices impracticable.

SIGNATURE

COMPANY NAME

DATE

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

CONTRACTOR'S OWN WORKFORCE

(This form must be submitted with the Contractor's bid proposal)

Pursuant to Section 3.18 – Contractor's Own Workforce, of the General Conditions, the Contractor submitting a bid proposal acknowledges that they will perform a minimum of 25% of the work with their own workforce as follows:

Task	Value of Work
Total Value of Workforce	
Percentage of Total Bid	%

SIGNATURE

COMPANY NAME

DATE

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

Erie County Equal Pay Certification

In order to comply with Executive Order 13 dated November 6, 2014, we hereby certify that we are in compliance with federal law, including the Equal Pay Act of 1963, Title VII of the Civil Rights Act of 1964, Federal Executive Order 11246 of September 24, 1965 and New York State Labor Law Section 194 (together "Equal Pay Law"). We understand that this certification is a material component of this contract. Violation of the provisions of Executive Order 13, which is attached hereto and made a part hereof, can constitute grounds for the immediate termination of this contract and may constitute grounds for determining that a bidder is not qualified to participate in future county contracts.

We have evaluated wages and benefits to ensure compliance with the Equal Pay Law. We certify that we have not been the subject of an adverse finding under the Equal Pay Law within the previous five years and, in the alternative, if we were the subject of an adverse finding under the Equal Pay Law within the previous five years, we have annexed a detailed description of the finding(s). In addition, we have annexed a detailed description of any currently pending claims under the Equal Pay Law in which we are involved.

Signature

Verification

A) OWNER/PARTNERSHIP

STATE OF _____)
COUNTY OF _____) SS:

_____, being duly sworn, states he or she is the owner of (or a partner in) _____, and is making the foregoing Certification and that the statements and representations made in the Certification are true to his or her own knowledge.

Sworn to before me this _____ Day of _____, 20__

Notary

B) CORPORATE

STATE OF _____)
COUNTY OF _____) SS:

_____, being duly sworn, states that he or she is the
Name of Corporate Officer
_____, of _____,
Title of Corporate Officer Name of Corporation

the enterprise making the foregoing Certification, that he or she has read the Certification and knows its contents, that the statements and representations made in the Certification are true to his or her own knowledge, and that the Certification is made at the direction of the Board of Directors of the Corporation.

Sworn to before me this _____ Day of _____, 20__

Notary

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

**ERIE COUNTY EXECUTIVE ORDER #18
ATTESTATION AND
STATEMENT OF WORKFORCE**

We hereby attest that we have read and understand Erie County Executive Order #18 (“EO #18”). We acknowledge that the project we are bidding on may be subject to the provisions thereof. We further attest that, should we be identified as the successful bidder and should the appropriate individual or entity determine that this project is subject to EO #18, we will be in compliance with such Order, or we will have been granted a partial waiver by the Erie County Office of Equal Employment Opportunity prior to starting work on the project.

We further acknowledge that in order for Erie County to determine if the project we are bidding on is subject to EO #18, they need to analyze the workforce that we intend to use on such project. We therefore now do attest that it is our current intention to use _____#____ construction workers, which number includes any subcontracted construction workers, on this project should it be awarded to us. For purposes of this attestation we understand that construction worker shall mean a laborer, workman, or mechanic who is directly involved in the construction, reconstruction, improvement, rehabilitation, installation, alteration, renovation, demolition or otherwise providing for any building, facility, roads, highways, bridges, or physical structure of any kind, but does not include professional services employees.

Signature

Verification

STATE OF NEW YORK)
COUNTY OF ERIE) SS:

A)
_____, being duly sworn, states he or she is the owner of
(or partner in) _____, and is making the
foregoing Attestation and Statement of Workforce and that such representations made are true to
his or her own knowledge.

B)
_____, being duly sworn, states that he or she is the
(Name of Corporate Officer) _____, of (Name of Corporation
or Enterprise) _____, that he or she has read the Attestation
and Statement of Workforce and that such representations made are true to his or her knowledge,
and are made at the direction of the Board of Directors of the Corporation.

Sworn to before me this _____
Day of _____, 20____ Notary Public

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

ACKNOWLEDGMENT OF DRUG AND ALCOHOL TESTING COMPLIANCE

_____ hereby acknowledges that a drug
(PRINT OR TYPE COMPANY NAME)
and alcohol program, which is required by Federal Department of Transportation rules (CFR, Title 49, Part 40 and 382), has been implemented by this Company. The program is administered by:

(PLEASE SELECT ONE)

() The Company itself - The program administrator is:

(Company Administrator's Name and Telephone Number)

() Third - Party Administrator - The program administrator is:

(Third - Party Administrator's Name)

(Address)

(Contact Person/Telephone)

(Company's Official's Name)

(Signature)

(Date)

Subscribed to before me on
_____, day of _____ 20__

Notary Public

Due to the safety-sensitive nature of the work which your Commercial Driver Licensed (CDL) employees may perform on this project, you are required to implement a drug and alcohol testing program which follows Federal Department of Transportation rules (CFR, Title 49, Parts 40 and 382). Further, as a condition of your contract, you must also submit proof of your compliance via this form to the Erie County Department of Public Works, office of the Commissioner.

This form must be signed and returned to the Commissioner of Public Works, 14th Floor, Rath Building, 95 Franklin Street, Buffalo, NY, no later than three (3) working days after the bid opening.

NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE FOR-PROFIT CONSTRUCTION (CCA-2)

You have selected the For-Profit Construction questionnaire, commonly known as the “CCA-2,” which may be printed and completed in this format or, **for your convenience, may be completed online using the [New York State VendRep System](#).**

COMPLETION & CERTIFICATION

The person(s) completing the questionnaire must be knowledgeable about the vendor’s business and operations. An owner or official must certify the questionnaire and the signature must be notarized.

NEW YORK STATE VENDOR IDENTIFICATION NUMBER (VENDOR ID)

The Vendor ID is a ten-digit identifier issued by New York State when the vendor is registered on the Statewide Vendor File. This number must now be included on the questionnaire. If the business entity has not obtained a Vendor ID, contact the IT Service Desk at ITServiceDesk@osc.state.ny.us or call 866-370-4672.

DEFINITIONS

All underlined terms are defined in the “New York State Vendor Responsibility Definitions List,” found at <http://www.osc.state.ny.us/vendrep/documents/questionnaire/definitions.pdf>. These terms may not have their ordinary, common or traditional meanings. Each vendor is strongly encouraged to read the respective definitions for any and all underlined terms. By submitting this questionnaire, the vendor agrees to be bound by the terms as defined in the "New York State Vendor Responsibility Definitions List" existing at the time of certification.

RESPONSES

Every question must be answered. Each response must provide all relevant information which can be obtained within the limits of the law. However, information regarding a determination or finding made in error which was subsequently corrected or overturned, and/or was withdrawn by the issuing government entity, is not required. Individuals and Sole Proprietors may use a Social Security Number but are encouraged to obtain and use a federal Employer Identification Number (EIN).

NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE FOR-PROFIT CONSTRUCTION (CCA-2)

BUSINESS ENTITY INFORMATION				
<u>Legal Business Name</u>		<u>EIN</u> _____		
Address of the <u>Principal Place of Business</u> (street, city, state, zip code)		<u>New York State Vendor Identification Number</u>		
		Telephone ext.		Fax
		Website		
Authorized Contact for this Questionnaire				
Name		Telephone ext.		Fax
Title		Email		
Additional <u>Business Entity</u> Identities: If applicable, list any other <u>DBA</u> , <u>Trade Name</u> , <u>Former Name</u> , Other Identity, or <u>EIN</u> used in the last five (5) years, the state or county where filed and the status (active or inactive).				
Type	Name	EIN	State or County where filed	Status

I. BUSINESS CHARACTERISTICS				
1.0 <u>Business Entity</u> Type – Check appropriate box and provide additional information:				
a) <input type="checkbox"/> <u>Corporation</u> (including <u>PC</u>)	Date of Incorporation			
b) <input type="checkbox"/> <u>Limited Liability Company</u> (<u>LLC</u> or <u>PLLC</u>)	Date Organized			
c) <input type="checkbox"/> <u>Limited Liability Partnership</u>	Date of Registration			
d) <input type="checkbox"/> <u>Limited Partnership</u>	Date Established			
e) <input type="checkbox"/> <u>General Partnership</u>	Date Established	County (if formed in NYS)		
f) <input type="checkbox"/> <u>Sole Proprietor</u>	How many years in business?			
g) <input type="checkbox"/> Other	Date Established			
If Other, explain:				
1.1 Was the <u>Business Entity</u> formed in New York State?				<input type="checkbox"/> Yes <input type="checkbox"/> No
If “No,” indicate jurisdiction where the <u>Business Entity</u> was formed:				
<input type="checkbox"/> United States	State			
<input type="checkbox"/> Other	Country			

NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE FOR-PROFIT CONSTRUCTION (CCA-2)

I. BUSINESS CHARACTERISTICS			
1.2 Is the <u>Legal Business Entity</u> publicly traded?			<input type="checkbox"/> Yes <input type="checkbox"/> No
If "Yes," provide the <u>CIK code</u> or Ticker Symbol:			
1.3 Is the <u>Business Entity</u> currently <u>registered to do business in New York State</u> ?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Note: Select "Not Required" if the Business Entity is a Sole Proprietor or General Partnership</i>			<input type="checkbox"/> Not Required
If "No," explain why the <u>Business Entity</u> is not required to be <u>registered to do business in New York State</u> :			
1.4 Is the responding <u>Business Entity</u> a <u>Joint Venture</u> ? Note: If the submitting <u>Business Entity</u> is a <u>Joint Venture</u> , also submit a separate questionnaire for each <u>Business Entity</u> comprising the <u>Joint Venture</u> .			<input type="checkbox"/> Yes <input type="checkbox"/> No
1.5 If the <u>Business Entity's</u> <u>Principal Place of Business</u> is not in New York State, does the <u>Business Entity</u> maintain an office in New York State?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>(Select "N/A" if <u>Principal Place of Business</u> is in New York State.)</i>			<input type="checkbox"/> N/A
If "Yes," provide the address and telephone number for one office located in New York State.			
1.6 Is the Business Entity a New York State certified <u>Minority-Owned Business Enterprise</u> , or <u>Women-Owned Business Enterprise</u> , or <u>New York State Small Business</u> , or federally certified <u>Disadvantaged Business Enterprise</u> ?			<input type="checkbox"/> Yes <input type="checkbox"/> No
If "Yes," check all that apply:			
<input type="checkbox"/> New York State certified <u>Minority-Owned Business Enterprise</u> (MBE)			
<input type="checkbox"/> New York State certified <u>Women-Owned Business Enterprise</u> (WBE)			
<input type="checkbox"/> <u>New York State Small Business</u>			
<input type="checkbox"/> Federally certified <u>Disadvantaged Business Enterprise</u> (DBE)			
1.7 Identify each person or business entity that is, or has been within the past five (5) years, <u>Principal Owner</u> of 5.0% or more of the firm's shares; a Business Entity Official; or one of the five largest shareholders, if applicable. <i>(Attach additional pages if necessary.)</i>			
<u>Joint Ventures</u> : Provide information for all firms involved.			
Name <i>(For each person, include middle initial)</i>	Title	Percentage of ownership (Enter 0%, if not applicable)	Employment status with the firm
			<input type="checkbox"/> Current <input type="checkbox"/> Former
			<input type="checkbox"/> Current <input type="checkbox"/> Former
			<input type="checkbox"/> Current <input type="checkbox"/> Former
			<input type="checkbox"/> Current <input type="checkbox"/> Former

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
FOR-PROFIT CONSTRUCTION (CCA-2)**

II. AFFILIATE and JOINT VENTURE RELATIONSHIPS		
2.0 Are there any other <u>construction</u> -related firms in which, now or in the past five years, the submitting <u>Business Entity</u> or any of the individuals or business entities listed in question 1.7 either owned or owns 5.0% or more of the shares of, or was or is one of the five largest shareholders or a director, officer, partner or proprietor of said other firm? (<i>Attach additional pages if necessary.</i>)		<input type="checkbox"/> Yes <input type="checkbox"/> No
Firm/Company Name	Firm/Company EIN (If available)	Firm/Company's Primary Business Activity
Firm/Company Address		
Explain relationship with the firm and indicate percent of ownership, if applicable (enter N/A, if not applicable):		
Are there any shareholders, directors, officers, owners, partners or proprietors that the submitting <u>Business Entity</u> has in common with this firm?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Individual's Name (<i>Include middle initial</i>)	Position/Title with Firm/Company	
2.1 Does the <u>Business Entity</u> have any <u>construction</u> -related <u>affiliates</u> not identified in the response to question 2.0 above? (<i>Attach additional pages if necessary.</i>)		<input type="checkbox"/> Yes <input type="checkbox"/> No
Affiliate Name	Affiliate EIN (If available)	Affiliate's Primary Business Activity
Affiliate Address		
Explain relationship with the affiliate and indicate percent of ownership, if applicable (<i>enter N/A, if not applicable</i>):		
Are there any shareholders, directors, officers, owners, partners or proprietors that the submitting Business Entity has in common with this affiliate?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Individual's Name (<i>Include middle initial</i>)	Position/Title with Firm/Company	
2.2 Has the <u>Business Entity</u> participated in any <u>construction-related Joint Ventures</u> within the past three (3) years? (<i>Attach additional pages if necessary.</i>)		<input type="checkbox"/> Yes <input type="checkbox"/> No
Joint Venture Name	Joint Venture EIN (If available)	Identify parties to the Joint Venture

NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE FOR-PROFIT CONSTRUCTION (CCA-2)

III. CONTRACT HISTORY

3.0 Has the Business Entity completed any construction contracts? Yes No

If "Yes," list the ten most recent construction contracts the Business Entity has completed using Attachment A – Completed Construction Contracts, found at www.osc.state.ny.us/vendrep/documents/questionnaire/ac3294s.doc.

If less than ten, include most recent subcontracts on projects up to that number.

3.1 Does the Business Entity currently have uncompleted construction contracts? Yes No

If "Yes," list all current uncompleted construction contracts by using Attachment B – Uncompleted Construction Contracts, found at www.osc.state.ny.us/vendrep/documents/questionnaire/ac3295s.doc.

Note: Ongoing projects must be included.

IV. INTEGRITY – CONTRACT BIDDING

Within the past five (5) years, has the Business Entity, an affiliate, or any predecessor company or entity:

4.0 Been suspended or debarred from any government contracting process or been disqualified on any government procurement? Yes No

4.1 Been subject to a denial or revocation of a government prequalification? Yes No

4.2 Had any bid rejected by a government entity for lack of qualifications, responsibility or because of the submission of an informal, non-responsive or incomplete bid? Yes No

4.3 Had a proposed subcontract rejected by a government entity for lack of qualifications, responsibility or because of the submission of an informal, non-responsive or incomplete bid? Yes No

4.4 Had a low bid rejected on a government contract for failure to make good faith efforts on any Minority-Owned Business Enterprise, Women-Owned Business Enterprise or Disadvantaged Business Enterprise goal or statutory affirmative action requirements on a previously held contract? Yes No

4.5 Agreed to a voluntary exclusion from bidding/contracting with a government entity? Yes No

4.6 Initiated a request to withdraw a bid submitted to a government entity or made any claim of an error on a bid submitted to a government entity? Yes No

For each "Yes," provide an explanation of the issue(s), the Business Entity involved, the relationship to the submitting Business Entity, the government entity involved, project(s), relevant dates, any remedial or corrective action(s) taken and the current status of the issue(s). Provide answer(s) below or attach additional sheets with numbered responses.

V. INTEGRITY – CONTRACT AWARD

Within the past five (5) years, has the Business Entity, an affiliate, or any predecessor company or entity:

5.0 Defaulted on or been suspended, cancelled or terminated for cause on any contract? Yes No

5.1 Been subject to an administrative proceeding or civil action seeking specific performance or restitution (except any disputed work proceeding) in connection with any government contract? Yes No

5.2 Entered into a formal monitoring agreement, consent decree or stipulation settlement as specified by, or agreed to with, any government entity? Yes No

5.3 Had its surety called upon to complete any contract whether government or private sector? Yes No

5.4 Forfeited all or part of a standby letter of credit in connection with any government contract? Yes No

NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE FOR-PROFIT CONSTRUCTION (CCA-2)

V. INTEGRITY – CONTRACT AWARD

Within the past five (5) years, has the Business Entity, an affiliate, or any predecessor company or entity:

For each “Yes,” provide an explanation of the issue(s), the Business Entity involved, the relationship to the submitting Business Entity, the government entity/owners involved, project(s), contract number(s), relevant dates, any remedial or corrective action(s) taken and the current status of the issue(s). Provide answer(s) below or attach additional sheets with numbered responses.

VI. CERTIFICATIONS/LICENSES

Within the past five (5) years, has the Business Entity, an affiliate, or any predecessor company or entity:

- | | |
|--|--|
| 6.0 Had a revocation or <u>suspension</u> of any business or professional permit and/or license? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.1 Had a denial, decertification, revocation or forfeiture of New York State certification of <u>Minority-Owned Business Enterprise</u> , <u>Women-Owned Business Enterprise</u> or a federal certification of <u>Disadvantaged Business Enterprise</u> status, for other than a change of ownership? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

For each “Yes,” provide an explanation of the issue(s), the Business Entity involved, the relationship to the submitting Business Entity, the government entity involved, relevant dates, any remedial or corrective action(s) taken and the current status of the issue(s). Provide answer(s) below or attach additional sheets with numbered responses.

VII. LEGAL PROCEEDINGS/GOVERNMENT INVESTIGATIONS

Within the past five (5) years, has the Business Entity, an affiliate, or any predecessor company or entity:

- | | |
|--|--|
| 7.0 Been the subject of a criminal <u>investigation</u> , whether open or closed, or an indictment for any business-related conduct constituting a crime under local, state or <u>federal</u> law? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.1 Been the subject of:
(i.) An indictment, grant of immunity, <u>judgment</u> or conviction (including entering into a plea bargain) for conduct constituting a crime; or
(ii.) Any criminal <u>investigation</u> , felony indictment or conviction concerning the formation of, or any business association with, an allegedly false or fraudulent <u>Minority-Owned Business Enterprise</u> , <u>Women-Owned Business Enterprise</u> , or a <u>Disadvantaged Business Enterprise</u> ? | <input type="checkbox"/> Yes <input type="checkbox"/> No

<input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.2 Received any <u>OSHA</u> citation, which resulted in a final determination classified as <u>serious</u> or <u>willful</u> ? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.3 Had a <u>government entity</u> find a willful prevailing wage or supplemental payment violation? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.4 Had a New York State Labor Law violation deemed willful? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.5 Entered into a consent order with the New York State Department of Environmental Conservation, or a <u>federal</u> , state or local government enforcement determination involving a violation of <u>federal</u> , state or local environmental laws? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE FOR-PROFIT CONSTRUCTION (CCA-2)

VII. LEGAL PROCEEDINGS/GOVERNMENT INVESTIGATIONS

Within the past five (5) years, has the Business Entity, an affiliate, or any predecessor company or entity:

7.6 Other than previously disclosed, been the subject of any <u>citations</u> , notices or violation orders; a pending administrative hearing, proceeding or determination of a violation of: <ul style="list-style-type: none"> • <u>Federal</u>, state or local health laws, rules or regulations; • <u>Federal</u>, state or local environmental laws, rules or regulations; • Unemployment insurance or workers compensation coverage or <u>claim</u> requirements; • Any labor law or regulation, which was deemed willful; • Employee Retirement Income Security Act (ERISA); • <u>Federal</u>, state or local human rights laws; • <u>Federal</u>, state or local security laws? 	<input type="checkbox"/> Yes <input type="checkbox"/> No
--	--

For each "Yes," provide an explanation of the issue(s), the Business Entity involved, the relationship to the submitting Business Entity, the government entity involved, relevant dates, any remedial or corrective action(s) taken and the current status of the issue(s). Provide answer(s) below or attach additional sheets with numbered responses.

Note: Information regarding a determination or finding made in error, which was subsequently corrected or overturned, and/or was withdrawn by the issuing government entity, is not required.

VIII. LEADERSHIP INTEGRITY

If the Business Entity is a Joint Venture Entity, answer "N/A - Not Applicable" to questions in this section.

Within the past five (5) years has any individual previously identified or any individual currently or formerly having the authority to sign, execute or approve bids, proposals, contracts or supporting documentation on behalf of the Business Entity with any government entity been:

8.0 <u>Sanctioned</u> relative to any business or professional permit and/or license?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.1 <u>Suspended, debarred or disqualified</u> from any <u>government contracting process</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.2 The subject of a criminal <u>investigation</u> , whether open or closed, or an indictment for any business-related conduct constituting a crime under local, state or <u>federal</u> law?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.3 Charged with a misdemeanor or felony, indicted, granted immunity, convicted of a crime or subject to a judgment for: <ul style="list-style-type: none"> (i.) Any business-related activity, including but not limited to fraud, coercion, extortion, bribe or bribe-receiving, giving or accepting unlawful gratuities, immigration or tax fraud, racketeering, mail fraud, wire fraud, price-fixing or collusive bidding; or (ii.) Any crime, whether or not business-related, the underlying conduct of which related to truthfulness, including but not limited to the filing of false documents or false sworn statements, perjury or larceny 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

For each "Yes," provide an explanation of the issue(s), the individual involved, the relationship to the submitting Business Entity, the government entity involved, relevant dates, any remedial or corrective action(s) taken and the current status of the issue(s). Provide answer(s) below or attach additional sheets with numbered responses.

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
FOR-PROFIT CONSTRUCTION (CCA-2)**

IX. FINANCIAL AND ORGANIZATIONAL CAPACITY		
9.0 Within the past five (5) years, has the <u>Business Entity</u> or any <u>affiliate</u> received any <u>formal unsatisfactory performance assessment(s)</u> from any <u>government entity</u> on any contract?		<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If "Yes," provide an explanation of the issue(s), the <u>Business Entity</u> involved, the relationship to the submitting <u>Business Entity</u>, the <u>government entity</u> involved, relevant dates, any remedial or corrective action(s) taken and the current status of the issue(s). Provide answer below or attach additional sheets with numbered responses.</i>		
9.1 Within the past five (5) years, has the <u>Business Entity</u> or any <u>affiliate</u> had any <u>liquidated damages</u> assessed over \$25,000?		<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If "Yes," provide an explanation of the issue(s), the <u>Business Entity</u> involved, the relationship to the submitting <u>Business Entity</u>, relevant dates, the contracting party involved, the amount assessed and the current status of the issue(s). Provide answer below or attach additional sheets with numbered responses.</i>		
9.2 Within the past five (5) years, has the <u>Business Entity</u> or any <u>affiliate</u> had any <u>liens, claims or judgments</u> over \$25,000 filed against the <u>Business Entity</u> which remain undischarged or were unsatisfied for more than 90 days? (Note: Including but not limited to tax warrants or liens. Do not include UCC filings.)		<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If "Yes," provide an explanation of the issue(s), the <u>Business Entity</u> involved, the relationship to the submitting <u>Business Entity</u>, relevant dates, the Lien holder or Claimants' name(s), the amount of the <u>lien(s)</u> and the current status of the issue(s). Provide answer below or attach additional sheets with numbered responses.</i>		
9.3 In the last seven (7) years, has the <u>Business Entity</u> or any <u>affiliate</u> initiated or been the subject of any bankruptcy proceedings, whether or not closed, or is any bankruptcy proceeding pending?		<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If "Yes," provide the <u>Business Entity</u> involved, the relationship to the submitting <u>Business Entity</u>, the bankruptcy chapter number, the court name and the docket number. Indicate the current status of the proceedings as "Initiated," "Pending" or "Closed." Provide answer below or attach additional sheets with numbered responses.</i>		
9.4 What is the <u>Business Entity's</u> Bonding Capacity?		
a. Single Project		b. Aggregate (All Projects)
9.5 List <u>Business Entity's</u> Gross Sales for the previous three (3) Fiscal Years:		
1st Year (Indicate year) Gross Sales	2nd Year (Indicate year) Gross Sales	3rd Year (Indicate year) Gross Sales
9.6 List <u>Business Entity's</u> Average Backlog for the previous three (3) fiscal years: (Estimated total value of uncompleted work on outstanding contracts)		
1st Year (Indicate year) Amount	2nd Year (Indicate year) Amount	3rd Year (Indicate year) Amount
9.7 Attach <u>Business Entity's</u> most recent annual <u>financial statement</u> and accompanying notes or complete Attachment C – Financial Information, found at www.osc.state.ny.us/vendrep/documents/questionnaire/ac3296s.xls . (This information must be attached.)		

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
FOR-PROFIT CONSTRUCTION (CCA-2)**

X. FREEDOM OF INFORMATION LAW (FOIL)

10.0 Indicate whether any information provided herein is believed to be exempt from disclosure under the Freedom of Information Law (FOIL).
Note: A determination of whether such information is exempt from FOIL will be made at the time of any request for disclosure under FOIL. Attach additional pages if necessary.

Yes No

If "Yes," indicate the question number(s) and explain the basis for the claim.

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
FOR-PROFIT CONSTRUCTION (CCA-2)**

Certification

The undersigned: (1) recognizes that this questionnaire is submitted for the express purpose of assisting New York State government entities (including the Office of the State Comptroller (OSC)) in making responsibility determinations regarding award or approval of a contract or subcontract and that such government entities will rely on information disclosed in the questionnaire in making responsibility determinations; (2) acknowledges that the New York State government entities and OSC may, in their discretion, by means which they may choose, verify the truth and accuracy of all statements made herein; and (3) acknowledges that intentional submission of false or misleading information may result in criminal penalties under State and/or Federal Law, as well as a finding of non-responsibility, contract suspension or contract termination.

The undersigned certifies that he/she:

- is knowledgeable about the submitting Business Entity’s business and operations;
- has read and understands all of the questions contained in the questionnaire;
- has not altered the content of the questionnaire in any manner;
- has reviewed and/or supplied full and complete responses to each question;
- to the best of his/her knowledge, information and belief, confirms that the Business Entity’s responses are true, accurate and complete, including all attachments, if applicable;
- understands that New York State government entities will rely on the information disclosed in the questionnaire when entering into a contract with the Business Entity; and
- is under an obligation to update the information provided herein to include any material changes to the Business Entity’s responses at the time of bid/proposal submission through the contract award notification, and may be required to update the information at the request of the New York State government entities or OSC prior to the award and/or approval of a contract, or during the term of the contract.

Signature of Owner/Official _____

Printed Name of Signatory _____

Title _____

Name of Business _____

Address _____

City, State, Zip _____

Sworn to before me this _____ day of _____, 20__;

_____ Notary Public

**NEW YORK STATE
VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT A – COMPLETED CONSTRUCTION CONTRACTS**

Vendor Name:

NYS Vendor ID:

Question 3.0: List the ten most recent construction contracts the Business Entity has completed. If less than ten, include most recent subcontracts on projects up to that number:						
1.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
2.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
3.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
4.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
5.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	

**NEW YORK STATE
VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT A – COMPLETED CONSTRUCTION CONTRACTS**

Vendor Name:

NYS Vendor ID:

Question 3.0: List the ten most recent construction contracts the Business Entity has completed. If less than ten, include most recent subcontracts on projects up to that number:						
6.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
7.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
8.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
9.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	
10.	Agency/Owner			Award Date	Amount	Date Completed
	Contact Person		Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable		EIN of JV, if applicable	

**NEW YORK STATE
VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT B – UNCOMPLETED CONSTRUCTION CONTRACTS**

Vendor Name:

NYS Vendor ID:

Question 3.1: List all current uncompleted construction contracts:								
1.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others		Uncompleted Amount	
2.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others		Uncompleted Amount	
3.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others		Uncompleted Amount	
4.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others		Uncompleted Amount	

**NEW YORK STATE
VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT B – UNCOMPLETED CONSTRUCTION CONTRACTS**

Vendor Name:

NYS Vendor ID:

Question 3.1: List all current uncompleted construction contracts:								
5.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others	Uncompleted Amount		
6.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others	Uncompleted Amount		
7.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others	Uncompleted Amount		
8.	Agency/Owner						Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer			
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable				EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others	Uncompleted Amount		

**NEW YORK STATE
VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT B – UNCOMPLETED CONSTRUCTION CONTRACTS**

Vendor Name:

NYS Vendor ID:

Question 3.1: List all current uncompleted construction contracts:							
9.	Agency/Owner					Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable			EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others	Uncompleted Amount	
10.	Agency/Owner					Award Date	Completion Date
	Contact Person			Telephone No.	Designer Architect and /or Design Engineer		
	Contract No.	Prime or Sub	Joint Venture (JV) Name, if applicable			EIN of JV, if applicable	
				Total Contract Amount	Amount Sublet to others	Uncompleted Amount	
Grand Total All Uncompleted Contracts						\$0.00	

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT C - FINANCIAL INFORMATION**

NYS Vendor ID: _____

As of Date: _____

ASSETS

Current Assets

1. Cash		\$	-	

2. Accounts receivable - less allowance for doubtful accounts	\$	-		
Retainers included in accounts receivable	\$	-		
Claims included in accounts receivable not yet approved or in litigation	\$	-		
Total Accounts Receivable	\$	-		

3. Notes receivable - due within one year	\$	-		

4. Inventory - materials	\$	-		

5. Contract costs in excess of billings on uncompleted contracts	\$	-		

6. Accrued income receivable				
Interest	\$	-		
Other (list) _____	\$	-		
_____	\$	-		
Total Accrued Income Receivable	\$	-		

7. Deposits				
Bid and Plan _____	\$	-		
Other (list) _____	\$	-		
_____	\$	-		
Total Deposits	\$	-		

8. Prepaid Expenses				
Income Taxes	\$	-		
Insurance	\$	-		
Other (list) _____	\$	-		
_____	\$	-		
Total Prepaid Expenses	\$	-		

9. Other Current Assets				
Other (list) _____	\$	-		
_____	\$	-		
Total Other Current Assets	\$	-		

10. Total Current Assets				\$ _____
11. Investments				
Listed securities-present market value	\$	-		
Unlisted securities-present value	\$	-		
Total Investments				\$ _____

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT C - FINANCIAL INFORMATION**

NYS Vendor ID: _____

12. Fixed Assets

Land	\$	-	
Building and improvements	\$	-	
Leasehold improvements	\$	-	
Machinery and equipment	\$	-	
Automotive equipment	\$	-	
Office furniture and fixtures	\$	-	
Other (list) _____	\$	-	
	\$	-	
Total			\$ -
Less: Accumulated depreciation			\$ -
Total Fixed Assets - Net			\$ -

13. Other Assets

Loans receivable			
Officers	\$	-	
Employees	\$	-	
Shareholders	\$	-	
Cash surrender value of officers' life insurance	\$	-	
Organization expense – net of amortization	\$	-	
Notes receivable - due after one year	\$	-	
Other (list) _____	\$	-	
	\$	-	
Total Other Assets			\$ -

14. TOTAL ASSETS

\$ -

\$ -

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT C - FINANCIAL INFORMATION**

NYS Vendor ID: _____

LIABILITIES

Current Liabilities

15. Accounts payable	\$	-
16 a. Loans from shareholders - due within one year	\$	-
16 b. Other Loans - due within one year	\$	-
17. Notes payable - due within one year	\$	-
18. Mortgage payable - due within one year	\$	-
19. Other payables - due within one year		
Other (list) _____	\$	-
_____	\$	-

Total Other Payables - due within one year	\$	-
20. Billings in excess of costs and estimated earnings	\$	-
21. Accrued expenses payable		
Salaries and wages	\$	-
Payroll taxes	\$	-
Employees' benefits	\$	-
Insurance	\$	-
Other	\$	-
Total Accrued Expenses Payable	\$	-
22. Dividends payable	\$	-
23. Income taxes payable		
State	\$	-
Federal	\$	-
Other	\$	-
Total Income Taxes Payable	\$	-
24. Total current liabilities	\$	-
25. Deferred income taxes payable		
State	\$	-
Federal	\$	-
Other	\$	-
Total Deferred Income Taxes	\$	-
26. Long Term Liabilities		
Loans from shareholders - due after one year	\$	-
Other Loans - due within one year		
Principle	\$	-
Interest	\$	-
Notes payable - due after one year	\$	-
Mortgage - due after one year	\$	-
Other payables - due after one year	\$	-
Other (list) _____	\$	-
_____	\$	-

Total Long Term Liabilities	\$	-

**NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE
ATTACHMENT C - FINANCIAL INFORMATION**

NYS Vendor ID: _____

27. Other Liabilities			
Other (list) _____	\$	-	
_____	\$	-	
Total Other Liabilities			\$ _____ -
28. TOTAL LIABILITIES			\$ _____ -

NET WORTH

29. Net Worth (if proprietorship or partnership)			\$ _____ -
30. Stockholders' Equity			
Common stock issued and outstanding	\$	-	
Preferred stock issued and outstanding	\$	-	
Retained earnings	\$	-	
Total	\$	-	
Less: Treasury stock	\$	-	
31. TOTAL STOCKHOLDERS' EQUITY			\$ _____ -
32. TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY			\$ _____ -

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OFFICE OF THE COMMISSIONER**

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OFFICE OF THE COMMISSIONER**

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- 7.07 Payment for Uncorrected Work
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- 7.09 Payment for Extra or Omitted Work
- 7.10 Payment for Work Suspended by the Owner
- 7.11 Payment for Work by the Owner
- 7.12 Payment for Work by the Owner Following His
Termination of the Contract
- 7.13 Payment for Work Terminated
- 7.14 Payment for Samples and Testing of Materials
- 7.15 Release of Liens
- 7.16 Acceptance and Final Payment
- 7.17 Termination of Contractor's Responsibility
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SECTION 8 - WAGES AND LABOR CONDITIONS

- 8.01 Working Hours
- 8.02 Wage Rates and Supplements
- 8.03 Discrimination
- 8.04 Equal Employment Opportunity
- 8.05 Monitoring
- 8.06 County of Erie Minority and Women's Business Enterprise Commitment
- 8.07 County of Erie-Executive Order No.13 "Pay Equity Certification on County Contracts"
- 8.08 County of Erie-Executive Order No.18 "First Source Hiring Policy for County Construction
Projects"

SECTION 9 - ACCOUNTABILITY

- 9.01 Accountability

SECTION 10 - THE ERIE COUNTY WORKFORCE DEVELOPMENT AND DIVERSIFICATION NEW YORK STATE
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- 10.01 County of Erie Local Law No. 3-2018
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ERIE COUNTY MINORITY/WOMEN BUSINESS ENTERPRISE UTILIZATION REPORT – PART B
ERIE COUNTY MINORITY/WOMEN BUSINESS ENTERPRISE UTILIZATION REPORT – PART C
ERIE COUNTY MINORITY/WOMEN BUSINESS ENTERPRISE UTILIZATION REPORT – PART D
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BUILDING PERMIT APPLICATION
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COUNTY OF ERIE STANDARD INSURANCE CERTIFICATE

APPENDIX C – COUNTY OF ERIE – EXECUTIVE ORDER NO.13 – PAY EQUITY CERTIFICATION ON COUNTY
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EXECUTIVE ORDER #13 PAY EQUITY CERTIFICATION ON COUNTY CONTRACTS
ERIE COUNTY EQUAL PAY CERTIFICATION

APPENDIX D – COUNTY OF ERIE – EXECUTIVE ORDER NO. 18 – FIRST SOURCE HIRING POLICY FOR
COUNTY CONSTRUCTION PROJECTS

EXECUTIVE ORDER NO.18 – FIRST SOURCE HIRING POLICY FOR COUNTY CONSTRUCTION
PROJECTS
RULES AND REGULATIONS IMPLEMENTING ERIE COUNTY EXECUTIVE MARK C. POLONCARZ
ORDER #18 SPECIFIC TO THOSE ERIE COUNTY CONSTRUCTION PROJECTS NOT
INITIATED IN THE ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING
DIVISION OF SEWERAGE MANAGEMENT
COUNTY OF ERIE EXECUTIVE ORDER #18 MONITORING AND REPORTS
FIRST SOURCE POLICY TARGETED ZIP CODES – ERIE COUNTY ZIP CODES WITH 20% POVERTY
RATE OR HIGHER

GENERAL CONDITIONS OF THE CONTRACT

SECTION 1 - DEFINITIONS

- 1.01 CONTRACT DOCUMENTS - The Contract comprises all the documents listed in the Table of Contents of the Project Manual, including all additions, deletions and modifications incorporated therein before the execution of the Contract:
- A. Legal and Procedural Documents
 - B. General Conditions of the Contract
 - C. Supplementary General Conditions
 - D. Application for Payment
 - E. Detailed Specifications
 - F. Drawings
- 1.02 ARCHITECT / ENGINEER is the Architect, Architect / Engineer or Engineer named in the Contract Documents, or the representative duly authorized in writing to act for such Architect, Architect / Engineer or Engineer.
- 1.03 OWNER is the County of Erie. With respect to approval of the Contract Award, Change Orders and Final Payment, as well as the appropriation of funds therefore, the County Legislature shall be the Owner's representative. For Contract execution, the County Executive shall be the Owner's representative. In legal matters, the County Attorney shall be the County's representative. In all other matters, the County's representative shall be the Commissioner of Public Works, or in his absence, his duly authorized representative.
- 1.04 CONTRACTOR is the Contractor named in the Contract Documents.
- 1.05 SUBCONTRACTOR is any person, firm or corporation who has a direct contract with the Contractor and who acts for or in behalf of the Contractor in executing any part of the Contract, but does not include one who merely furnishes material or equipment.
- 1.06 PROPOSAL: The offer of a Bidder to perform the work described by the Contract Documents when made out and submitted on the prescribed Proposal Form, properly signed and guaranteed.
- 1.07 PROPOSAL GUARANTY: The Bid Bond, which shall accompany each Proposal submitted by the Bidder, is a guarantee that the Bidder will enter into a contract with the Owner for the construction of the work if the contract is awarded to him.
- 1.08 PERFORMANCE LABOR AND MATERIAL PAYMENT BOND: The Owner's standard bond document and the only approved form of security to be submitted by the contractor and his surety as a guarantee to faithfully execute the work in accordance with the terms of the contract and to pay all amounts owed by him to all laborers, tradesmen and suppliers in connection with the work covered by his contract.
- 1.09 SURETY is the person, firm or corporation that executes the Contractor's Performance Bond.

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- 1.10 PROJECT MANUAL shall mean the Legal and Procedural Documents, General Conditions of the Contract, together with the modifications thereof, and the Detailed Specifications, with all addenda thereto.
- 1.11 DRAWINGS are those enumerated in the contract documents.
- 1.12 WRITTEN NOTICE shall be considered as served when delivered in person or sent by registered or certified mail to the individual, firm or corporation or to the last business address of such known to him who serves the notice.
- A. Notice to Owner - All required notices to the Owner shall be delivered to the Erie County Department of Public Works – Office of the Commissioner, 14th Floor Rath Building, 95 Franklin Street, Buffalo, NY 14202.
- B. Change of Address - Each party shall advise the other parties to the Contract promptly as to any change in his business address until completion of the Contract.
- 1.13 ACT OF GOD means an earthquake, flood, tornado or other cataclysmic phenomenon of nature. Rain, wind, flood or other natural phenomenon of normal intensity for the locality shall not be construed as an Act of God and no reparation shall be made to the Contractor for damaged to the work resulting there from.

SECTION 2 - DRAWINGS, SPECIFICATIONS AND RELATED DATA

- 2.01 INTENT OF DRAWINGS AND SPECIFICATIONS - The intent of the Drawings and Specifications is that the Contractor furnish all labor and materials, equipment and transportation necessary for the proper execution of the work unless specifically noted otherwise. The Contractor shall do all the work shown on the Drawings and described in the Specifications and all incidental work considered necessary to complete the work included in the contract in a substantial and acceptable manner, and to fully complete the work or improvement, ready for use, occupancy and operation by the Owner.
- 2.02 CONFLICT - If there is conflicting variance between the Drawings and the Specifications, the provisions of the Specifications shall control. In case of conflict between the General Conditions of the Contract or any modifications thereof and the Detailed Specification Requirements, the Detailed Specification Requirements shall control.
- 2.03 DISCREPANCIES IN DRAWINGS - Any discrepancies found between the Drawings and Specifications and site conditions or any errors or omissions in the Drawings or Specifications shall be immediately reported to the Architect / Engineer , who shall promptly correct such error or omission in writing. Any work done by the Contractor after his discovery of such discrepancies, errors or omissions shall be done at the Contractor's risk.
- 2.04 DRAWINGS AND SPECIFICATIONS - The complete requirements of the work to be performed under the Contract shall be set forth in Drawings and Specifications to be supplied through the Architect / Engineer or by the Architect / Engineer as consultant to the Owner.
- 2.05 ADDITIONAL INSTRUCTIONS - Further instructions may be issued by the Architect / Engineer during the progress of the work by means of Drawings or otherwise to make more clear or specific the Drawings and Specifications or as may be necessary to explain or illustrate changes in the work to be done.
- 2.06 COPIES OF DRAWINGS AND SPECIFICATIONS FURNISHED - Except as provided for otherwise, all required copies of Drawings and Specifications necessary for the execution of the work shall be furnished to the Contractor without charge.

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- 2.07 DRAWINGS AND SPECIFICATIONS AT JOB SITE - One complete set of all Drawings and Specifications shall be maintained at the job site and shall be available to the Architect / Engineer at all times.
- 2.08 OWNERSHIP OF DRAWINGS AND SPECIFICATIONS - Except as otherwise provided in the Owner's Contract with the Architect / Engineer, all original or duplicated Drawings and Specifications and other data prepared by the Architect / Engineer shall remain the property of the Owner and/or Architect / Engineer, and they shall not be reused on other work, but shall be returned upon completion of the work.
- 2.09 DIMENSIONS - Figured dimensions on the plans will be used in preference to scaling the Drawings. Where the work of the Contractor is affected by finish dimensions, these shall be determined by the Contractor at the site, and he shall assume the responsibility therefore.
- 2.10 MODELS - All models prepared for this work shall become the property of the Owner at the completion of the work.
- 2.11 SAMPLES - All samples called for in the Specifications or required by the Architect / Engineer shall be furnished by the Contractor and shall be submitted to the Architect / Engineer for his approval. Samples shall be furnished so as not to delay fabrication, allowing the Architect / Engineer reasonable time for the consideration of the samples submitted.
- A. Samples of Tests - Contractor shall furnish such samples of material as may be required for examination and test. All materials and workmanship shall be in accordance with approved samples. All samples of materials for tests shall be taken according to methods provided in the Specifications.
- 2.12 SHOP DRAWINGS – A schedule of shop drawings, setting data, and other manufacturer's data shall be submitted by the Contractor for approval of the Architect/Engineer. This schedule shall be coordinated with the project construction schedule and shall be submitted within 30 days after award of contracts.
- A. The shop drawings schedule should list the following information:
1. Description of items for which shop drawings and data shall be submitted.
 2. Approximate date for first submittal.
 3. Approximate number of calendar days required for fabrication and delivery after final approval.
 4. Number of copies each item for preliminary and final submittals.
- B. The Contractor shall be responsible for the accuracy, completeness, and suitability of the information furnished or shop drawings prepared by the subcontractors and vendors. The Contractor shall check and approve all shop drawings before they are submitted to the Architect/Engineer. Such approval shall be understood to indicate the Contractor's assurances that the items proposed by the drawings and data sheets are in accordance with the contract. Shop drawings shall include setting drawings, schedules, catalogs, brochures, manufacturer's data and other information required to evaluate and install.
- C. Shop drawings may be disapproved by the Architect/Engineer for the following reasons:
1. Drawing has not been approved by the Contractor.
 2. Drawings have been prepared without due regard for information and requirements called for or logically implied by the Contract Documents.

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3. The information is not sufficiently complete or accurate to verify that that the work represented is in accordance with the Contract Documents.
- D. Shop drawings and submitted data shall be graded by the Architect/Engineer as follows:
1. Reviewed
 - a. There shall be no correction marks on drawings.
 - b. The work may be fabricated.
 2. Make Noted Corrections
 - a. Corrections shall be of a minor nature.
 - b. The work may be fabricated at the Contractor's option, except where otherwise noted.
 - c. Corrected copies shall be submitted within a reasonable time for final approval.
 - d. Not Approved
 3. Rejected
 - a. Drawings are not acceptable.
 4. Revise and Re-submit
 - a. Drawings are basically correct, but due to the nature and/or extent of the corrections and/or revisions required, work shall not be fabricated.
 5. Submit Item Specified
 - a. Contractor shall submit item as specified in the specifications.
 6. The Architect / Engineer shall, within fourteen (14) days of the submittal of any shop drawings, return one copy to the contractor marked with all corrections and changes.
- E. The Architect/Engineer's approval of shop drawings is subject to the following conditions:
1. Approval does not authorize changes to contract requirements unless so stated in a separate letter or change order.
 2. The Contractor shall verify all dimensions.
 3. Checking and approval of shop drawings shall be only for conformance with the design concept of the project and compliance with the information given in the Contract Documents. Contractor shall be responsible for the dimensions to be confirmed and correlated at the jobsite; for all quantities, for information that pertains solely to the fabrication processes or to techniques or construction, and for coordination of the work of all trades.
- F. Shop drawings should generally provide the following information:
1. Job Title and Shop Drawing Number.

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2. Date of Drawing and Revisions.
3. Certification that drawing has been checked by Contractor and is in compliance with the Contract Documents.
4. Details of Fabrication, Assembly and Erection.
5. Materials Used.
6. Required Dimensions.
7. Details of connections of related work.
8. Designation of the other subcontractor, trade or Contractor who provides related work shown on drawings. If not shown, this information should be provided by the Contractor before the first submittal is transmitted to the Architect / Engineer.
9. Information relating to the capacities, controls and other specification data for items or equipment.
10. Schedule, where pertinent, information on finishes or protective coating, including color samples as required.

G. Distribution Procedure:

1. In general, all shop drawings and submittals shall be received by the Architect / Engineer under a covering transmittal memorandum from the Contractor.
2. Unless otherwise indicated, initial and subsequent submissions, except final submissions shall consist of one (1) reproducible transparency and two (2) prints. The two (2) prints will be retained by the Architect /Engineer and the reproducible transparency will be returned to the Contractor.
3. Submission of catalogs, brochures and other data, where reproducible transparencies are not feasible, shall consist of a minimum of four (4) copies, two (2) of which shall be retained and two (2) returned to the Contractor. Final submittal shall include extra copies as maybe be required by the Contractor.
4. The Contractor shall make all necessary corrections to conform to the corrections and changes requested by the Architect / Engineer.
5. When shop drawings are “approved “and so stamped, the Contractor shall then submit an additional three (3) copies to the Architect/ Engineer which will be retained.
6. The Contractor shall make a minimum distribution of “approved” copies as follows:
 7. One or more copies to the fabricator and /or manufacturer’s representative.
 8. One copy in the contractor’s office.
 9. One copy to file and keep in good condition at the site.

2.13 QUALITY OF EQUIPMENT AND MATERIALS - In order to establish standard of quality, the Architect / Engineer may, in the Detailed Specifications, refer to certain products by name and catalog number. This procedure is not to be construed as eliminating from competition other products of equal or better quality by other manufacturers where fully suitable for performance, capacity and design.

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- A. The Contractor shall furnish the complete list of proposed desired substitutions at the time of bidding, in the space provided on the Proposal Form, together with such engineering and catalog data as the Architect / Engineer may require.
- B. Substitutions
1. Requests for substitutions will be considered under the following time limitations and situations:
 - a. Not less than ten (10) calendar days before bids are due.
 - b. Work or equipment specified becomes unavailable through unforeseen events such as strikes, loss of manufacturers' plant through fire, flood or bankruptcy.
 2. Requested substitutions will be reviewed and adjudged. Failure of the Owner to raise objection shall not constitute a waiver of any of the requirements of the Contract Documents.
 3. Request for substitutions shall include complete data with drawings and samples as required, including the following:
 - a. Quality Comparison – Proposed substitution versus the specified product.
 - b. Changes required in other work because of the substitution.
 - c. Effect on the construction schedule.
 - d. Cost Data – Resulting from the proposed substitution versus the specified product. The Contractor shall certify that the cost data presented is complete and includes all related costs under this Contract.
 4. When proposing a substitution, the Contractor represents that:
 - a. They have investigated the proposed substitution and have determined that it is equal to or better than the product specified.
 - b. They will guarantee the substitution in the same manner as the product specified.
 - c. They will coordinate and make other changes as required in the work as a result of the substitution.
 - d. They waive all claims for additional costs as a result of the substitution, with the exception of those identified above under "cost data".
 5. The Owner will be sole judge of the acceptability of the proposed substitution.
 6. The Owner will have authority to approve or reject substitutions or to change the specified standards of quality. However, neither this authority to act under this provision nor any decision made in good faith, either to exercise or not to exercise this authority, shall give rise to any duty or responsibility of the Owner to the Contractor, any Subcontractor, any Sub-Subcontractor, any of their agents or employees, or any other persons performing the work or offering to perform the work.
- C. The Contractor shall abide by the Architect / Engineer's judgment when proposed substitute materials or items of equipment are judged to be unacceptable and shall furnish the specified material or item of equipment in such case. All proposals for substitutions shall be submitted in writing by the Contractor and not by sub-contractors, individual trades or material suppliers. The Architect / Engineer will approve or disapprove proposed substitutions in writing. No substitute materials or equipment shall be used unless approved in writing.

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- 2.14 EQUIPMENT APPROVAL DATA - The Contractor shall furnish one copy of complete catalog data for every manufactured item of equipment and all components to be used in the work, including specific performance data, material description, rating, capacity, working pressure, material gage or thickness, brand name, catalog number and general type.
- A. This submission shall be compiled by the Contractor and approved by the Architect / Engineer before any of the equipment is ordered.
 - B. Each data sheet or catalog in the submission shall be indexed according to specification section and paragraph for easy reference.
 - C. After written approval, this submission shall become a part of the Contract, and may not be deviated from except upon written approval of the Architect / Engineer and Owner.
 - D. Catalog data for equipment approved by the Architect / Engineer does not in any case supersede the Architect / Engineer's Contract Documents. The approval of the Architect / Engineer shall not relieve the Contractor from responsibility for deviations from Drawings or Specifications, unless he has in writing called the Architect / Engineer's attention to such deviations at the time of submission, nor shall it relieve him from responsibility for errors of any sort in the items submitted. The Contractor shall check the work described by the catalog data with the Architect / Engineer's Contract Documents for deviations and errors.
 - E. It shall be the responsibility of the Contractor to insure that items to be furnished fit the space available. He shall make necessary field measurements to ascertain space requirements, including those for connections, and shall order such sizes and shapes of equipment that the final installation shall suit the true intent and meaning of the Drawings and Specifications.
 - F. Where equipment requiring different arrangement of connections from those shown is approved, it shall be the responsibility of the Contractor to install the equipment to operate properly, and in harmony with the intent of the Drawings and Specifications, and to make all changes in the work required by the different arrangement of connections without extra cost to the Owner.
- 2.15 SURVEYS - Unless otherwise specified, the Owner shall establish all base lines for the location of the principal component parts of the work together with a suitable number of bench marks adjacent to the work. Based upon the information provided by the Owner, the Contractor shall develop and make all detail surveys necessary for construction, including slope stakes, batterboards, stakes for pile locations and other working points, lines and elevations. The Contractor shall have the responsibility to carefully preserve bench marks, reference points and stakes, and, in the case of destruction thereof by the Contractor or resulting from his negligence, the Contractor shall be charged with the expense and damage resulting there from and shall be responsible for any mistakes that may be caused by the unnecessary loss or disturbance of such bench marks, reference points and stakes.
- 2.16 RECORD DOCUMENT SUBMITTALS
- A. Record Drawings: Prior to acceptance by the Owner of all work covered by the contract each contractor shall furnish to the Architect/ Engineer project record documents as required under Division 1.
 - B. Operation and Maintenance Manuals: Prior to acceptance by the Owner of all work covered by the contract each contractor shall furnish to the Architect/ Engineer operation and maintenance manuals as required under Division 1.

SECTION 3 - RELATIONS AMONG OWNER, CONTRACTOR AND ARCHITECT / ENGINEER

- 3.01 ARCHITECT / ENGINEER 'S RESPONSIBILITY AND AUTHORITY - All work shall be done under the general administration of the Architect / Engineer. The Architect / Engineer shall decide any and all questions which may arise as to the quality and acceptability of materials furnished, work performed, rate or progress of work, interpretation of Drawings and Specifications and all questions, other than legal questions, as to the acceptable fulfillment of the Contract on the part of the Contractor.
- 3.02 ARCHITECT / ENGINEER'S DECISIONS - All decisions of the Architect / Engineer concerning the intent of the drawings and specifications shall be final. No changes may be made in the drawings or specifications involving more or less quantities of materials, changes in the quality of materials or workmanship, or changes in design or in the amount of labor or machine time involved, regardless of whether or not a change in contract price is sought, until a request in writing has been submitted to the Owner for his approval and such approval has been granted.
- 3.03 SUSPENSION OF WORK - The Owner's representative and/or the Architect / Engineer shall have the authority to suspend the work, wholly or in part, for such periods as he may deem necessary due to unsuitable weather or such other conditions as are considered unfavorable for prosecution of the work, or failure on the part of the Contractor to carry out the provisions of the Contract or to supply materials meeting the requirements of the Specifications. The Contractor shall not suspend operation without the Owner's representative and/or the Architect / Engineer's permission.
- 3.04 INSPECTION OF WORK - All materials and each part or detail of the work shall be subject at all times to inspection by the Owner's representative and/or the Architect / Engineer, and the Contractor will be held strictly to the true intent of the Specifications in regard to quality of materials, workmanship, and the diligent execution of the Contract. Such inspection may include mill, plant, or shop inspection, and any material furnished under these Specifications is subject to such inspection. The Owner's representative and/or the Architect / Engineer shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.
- 3.05 EXAMINATION OF COMPLETE WORK - If the Architect / Engineer requests it, the Contractor at any time before acceptance of the work shall remove or uncover such portions of the finished work as maybe directed. After examination, the Contractor shall restore said portions of the work to the standard required by the Specifications. Should the work thus exposed or examined prove acceptable, the uncovering or removing, and the replacing of the covering or making good of the parts removed shall be paid for as Extra Work, but should the work so exposed or examined prove unacceptable, the uncovering, removing and replacing shall be at the Contractor's expense.
- 3.06 CONTRACTOR'S SUPERINTENDENCE - The Contractor shall designate a qualified superintendent, acceptable to the Owner's representative and the Architect / Engineer, who shall be maintained on the project and give efficient supervision to the work until its completion. The superintendent shall have full authority to act in behalf of the Contractor, and all directions given to the superintendent shall be considered given to the Contractor. In general, the Architect / Engineer's instructions shall be confirmed in writing and always upon written request from the Contractor. The Contractor's superintendent or other authorized managerial level representative shall be required to attend all scheduled job meetings.
- 3.07 LANDS BY OWNER - The Owner shall provide the lands shown on the Drawings upon which the work under the Contract is to be performed and to be used for rights-of-way for access. Any unreasonable delay in furnishing these lands by the Owner shall be deemed proper cause for adjustment in the Contract Amount and/or in the time of completion.

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- 3.08 LANDS BY CONTRACTOR - Any additional land and access thereto, not shown on the Drawings, that may be required for temporary construction facilities or for storage of materials shall be provided by the Contractor with no liability to the Owner. The Contractor shall confine his apparatus and storage of materials and operation of his workmen to those areas described in the Drawings and Specifications and such additional areas which he may provide as approved by the Owner's representative and the Architect / Engineer.
- 3.09 PRIVATE PROPERTY - The Contractor shall not enter upon private property for any purpose without obtaining permission, and he shall be responsible for the preservation of all public property, trees, monuments, etc. along and adjacent to the street and/or right-of-way, and shall use every precaution necessary to prevent damage or injury thereto. He shall use suitable precautions to prevent damage to pipes, conduits, and other underground structures, and shall protect carefully from disturbance or damage all monuments and property marks until an authorized agent has witnessed or otherwise referenced their location and shall not remove them until directed.
- 3.10 ASSIGNMENT OF CONTRACT - The Contractor shall be bound by Section 109 of the General Municipal Law relating to the assignment of Public Contracts. The following extracts are directed to the attention of bidders:
- A. "Prohibiting any contractor, to whom any contract shall be let, granted or awarded, as required by law, from assigning, transferring, conveying, subletting or otherwise disposing of the same, or of his right, title or interest therein, or his power to execute such contract, to any other person or corporation without the previous consent in writing of the officer, board or agency awarding the contract."
 - B. "If any contractor, to whom any contract is let, granted or awarded, as required by law, by any officer, board or agency of a political subdivision, or of any district therein, shall without the previous written consent specified in subdivision one 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 maybe, 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 moneys, 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."
- 3.11 REMOVAL OF CONSTRUCTION EQUIPMENT, TOOLS AND SUPPLIES - At the termination of this Contract, before acceptance of the work by the Architect / Engineer , the Contractor shall remove all of his equipment, tools and supplies from the property of the Owner. Should the Contractor fail to remove such equipment, tools and supplies, the Owner shall have the right to remove them.
- 3.12 SUSPENSION OF WORK BY OWNER - The work or any portion thereof may be suspended at any time by the Owner provided that he give the Contractor five (5) days' written notice of suspension, which shall set forth the date on which work is to be resumed.
- 3.13 OWNER'S RIGHT TO CORRECT DEFICIENCIES - Upon failure of the Contractor to perform the work in accordance with the Contract Documents, including any requirements with respect to the Schedule of Completion, and after five (5) day's written notice to the Contractor and receipt of written approval from the Architect / Engineer, the Owner may, without prejudice to any other remedy he may have, correct such deficiencies.

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- 3.14 OWNER'S RIGHT TO TERMINATE CONTRACT AND COMPLETE THE WORK - The Owner shall have the right to terminate the employment of the Contractor after giving ten (10) days' written notice of termination to the Contractor in the event of any default by the Contractor and upon receiving written notice from the Architect / Engineer certifying cause for such action. In the event of such termination, the Owner may take possession of the work and of all materials, tools and equipment thereon and may finish the work by whatever method and means he may select. It shall be considered a default by the Contractor whenever he shall:
- A. Declare bankruptcy, become insolvent, or assign his assets for the benefit of his creditors.
 - B. Disregard or violate important provisions of the Contract Documents or Architect / Engineer's Instructions, or fail to prosecute the work according to the agreed progress schedule, including extensions thereof.
 - C. Fail to provide a qualified superintendent, competent workmen or sub-contractors, or proper materials, or fail to make prompt payment therefore.
- 3.15 CONTRACTOR'S RIGHT TO SUSPEND WORK OR TERMINATE CONTRACT - The Contractor may suspend work or terminate Contract upon ten (10) days' written notice to the Owner and the Architect / Engineer, if an order of any court, or other public authority causes the work to be stopped or suspended for a period of ninety (90) days through no act or fault of the Contractor or his employees.
- 3.16 RIGHTS OF VARIOUS INTERESTS - Wherever work being done by the Owner's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Architect / Engineer to secure the completion of the various portions of the work in general harmony.
- 3.17 SEPARATE CONTRACTS - The Owner may let other contracts in connection with the work of the Contractor. The Contractor shall cooperate with other Contractors with regard to storage of materials and execution of their work. It shall be the Contractor's responsibility to inspect all work by other Contractors affecting their work and to report to the Architect / Engineer any irregularities which will not permit them to complete their work in a satisfactory manner. Their failure to notify the Architect / Engineer of such irregularities shall indicate the work of other Contractors has been satisfactorily completed to receive their work. The Contractor shall not be responsible for defects of which he could not have known, which develop in the work of others after the work is completed. It shall be the responsibility of the Contractor to measure the completed work in place and report to the Architect / Engineer immediately any difference between completed work by others and the Drawings.

It is the responsibility of each Prime Contractor under separate contracts associated with the same project to coordinate the activities of their respective subcontractors and the work between other prime contracts that affects their scope of work in a cooperative manner to prevent delays and/ or additional costs to the extent practical. It will be the responsibility of the Architect/ Engineer in conjunction with the Owner to evaluate delays and/or additional costs should they arise. Owner reserves the right to withhold payment per Section 7.05 as deemed necessary.

- 3.18 CONTRACTORS OWN WORKFORCE – The Contractor shall perform with their own workforce contract work amounting to not less that 25 percent of the original total contract price, except those items designated by the County as “Specialty Items” so performed shall be deducted from the original total contract price before computing the amount of work required to be performed by the Contractor with their own workforce.
- A. “Their own workforce” shall be construed to include only worker’s employed and paid directly by the Contractor and equipment owned or rented by the Contractor, with or without operators.

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- 3.19 SUBCONTRACTS - Within 48 hours (not counting Saturdays, Sundays or holidays) after the time of bidding, the Contractor shall submit in writing to the Owner for approval by the Architect / Engineer the names of the sub-contractors proposed for the work. After such approval, sub-contractors may not be changed except at the request of, or with the approval of the Architect / Engineer. The Contractor is responsible to the Owner for the acts and omissions of his sub-contractors, and of their direct and indirect employees, to the same extent as he is responsible for the acts and omissions of his employees. The Contract Documents shall not be construed as creating any contractual relation between any sub-contractor and the Owner. The Contractor shall bind every sub-contractor by the terms of the Contract Documents.
- A. For convenience of reference and to facilitate the letting of Contracts and sub-contracts, the Specifications are separated into titled sections. Such separations shall not, however, operate to make the Architect / Engineer an arbiter to establish limits to the contracts between Contractor and sub-contractors.
- 3.20 WORK DURING AN EMERGENCY - The Contractor shall perform any work and shall furnish and install any materials and equipment necessary during an emergency endangering life or property. In all cases he shall notify the Architect / Engineer of the emergency as soon as practicable, but he shall not wait for instructions before proceeding to properly protect both life and property.
- 3.21 ORAL AGREEMENTS - No oral order, objection, claim or notice by any party to the others shall affect or modify any of the terms or obligations contained in any of the Contract Documents, and none of the provisions of the Contract Documents shall be held to be waived or modified by reason of any act whatsoever, other than a definitely agreed waiver or modification thereof in writing, and no evidence shall be introduced in any proceeding of any other waiver or modification.

SECTION 4 - MATERIALS AND WORKMANSHIP

- 4.01 MATERIALS FURNISHED BY THE CONTRACTOR - All materials sold to the Owner and/or used in the work shall meet the requirements of the respective Specifications, and no material shall be used until it has been approved by the Architect / Engineer. All materials not otherwise specifically indicated shall be furnished by the Contractor.
- 4.02 MATERIALS FURNISHED BY THE OWNER - Materials specifically indicated shall be furnished by the Owner. The fact that the Owner is to furnish material is conclusive evidence of its acceptability for the purpose intended, and the Contractor may continue to use it until otherwise directed. If the Contractor discovers any defect in material furnished by the Owner, he shall notify the Architect / Engineer. Unless otherwise noted or specifically stated, materials furnished by the Owner, which are not of local occurrence, are considered to be f.o.b. the nearest railroad station. The Contractor shall be prepared to unload and properly protect all such material from damage or loss. The Contractor shall be responsible for material loss or damage after receipt of material at the point of delivery.
- 4.03 STORAGE OF MATERIALS - Materials shall be so stored as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wooden platforms or other hard, clean surfaces, and not on the ground, and/or they shall be placed under cover. Stored materials shall be located so as to facilitate prompt inspection. Request for payment of offsite storage shall be in accordance with Section 7.02.c.

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- 4.04 CHARACTER OF WORKMEN - The Contractor shall at all times be responsible for the conduct and discipline of his employees and/or any sub-contractor or persons employed by sub-contractors. All workmen must have sufficient knowledge, skill, and experience to perform properly the work assigned to them. Any foreman or workman employed by the Contractor or sub-contractor who, in the opinion of the Architect / Engineer, does not perform his work in a skillful manner, or appears to be incompetent or to act in a disorderly or intemperate manner shall, at the written request of the Architect / Engineer, be discharged immediately and shall not be employed again in any portion of the work without the approval of the Architect / Engineer.
- 4.05 REJECTED WORK AND MATERIALS - All materials which do not conform to the requirements of the Contract Documents, are not equal to samples approved by the Architect / Engineer, or are in any way unsatisfactory or unsuited to the purposes for which they are intended, shall be rejected. Any defective work whether the result of poor workmanship, use of defective materials, damaged through carelessness or any other cause shall be removed within ten (10) days after written notice is given by the Architect / Engineer, and the work shall be re-executed by the Contractor. The fact that the Architect / Engineer may have previously overlooked such defective work shall not constitute an acceptance of any part of it.
- A. Should the Contractor fail to remove rejected work or materials within ten (10) days after written notice to do so, the Owner may remove them and may store the materials.
- B. Correction of Faulty Work after Final Payment shall be in accordance with Paragraph 7.18.
- 4.06 MANUFACTURER'S DIRECTIONS - Manufactured articles, material and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer unless herein specified to the contrary.
- 4.07 CUTTING AND PATCHING - The Contractor shall do all necessary cutting and patching of the work that may be required to properly receive the work of the various trades or as required by the Drawings and Specifications to complete the structure. He shall restore all such cut or patched work as directed by the Architect / Engineer. Cutting of existing structure that shall endanger the work, adjacent property, workmen or the public, shall not be done unless approved by the Architect / Engineer and under his direction.
- 4.08 CLEANING UP - The Contractor shall remove from the Owner's property, and from all public and private property, all temporary structures, rubbish and waste materials resulting from his operation or caused by his employees, and shall remove all surplus materials leaving the site smooth, clean and true to line and grade. If all materials described above related to a contractor's scope of work are not removed in a timely manner, the contractor will be issued a written notice of unsatisfactory demobilization / cleanup which shall be addressed within 24 hours. If satisfactory corrective action is not completed within 24 hours the County shall have the situation remedied as deemed necessary by the County and the contractor shall be responsible for the costs through a withhold of retention and/or invoice to the contractor equaling the cost to clean up the construction site.
- 4.09 GUARANTY PERIOD - The Contractor shall warrant all materials and equipment furnished and all work performed by him for a period of two (2) years, or for such longer period as may be specified in the Detailed Specifications, from the date of written acceptance of the work or "Notice of Substantial Completion". (Note: The warranty period, in regard to any facilities or portions thereof which are essentially completed and have been accepted for use and occupancy by the Owner shall commence with the date of the "Notice of Substantial Completion".)
- A. Correction of Faulty Work after Final Payment shall be as provided in Paragraph 7.18, except that where a period longer than two years is specified in the Detailed Specifications, such longer period shall apply.

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- B. As a condition precedent to final payment, the Contractor shall execute a guaranty in the form provided by the Architect / Engineer warranting the work under his contract free from defects of materials and workmanship and agreeing to replace at his expense any materials or equipment found defective within the two years after final acceptance by the Owner, and to replace any other work found unsatisfactory because of settlement or displacement within such longer period as may be specified in the Detailed Specifications, and to do such replacing or corrective work at such times and in such manner as not to interfere with the Owner's use of the premises.

SECTION 5 - INSURANCE, BONDS, SAFETY, ETC.

5.01 INSURANCES REQUIRED - Insurance shall be procured by the successful bidder before commencing work, no later than seven (7) days after notice of an award and maintained without interruption for the duration of the contract, in the kinds and amounts specified below.

	<u>Each Occurrence</u>	<u>Aggregate</u>
A. Commercial General Liability Premises and Operations	\$1,000,000	\$2,000,000
▪ Products and Completed Operations	\$2,000,000	
▪ Independent Contractors	Not Excluded or Limited	
▪ Contractual	Not Excluded or Limited	
▪ Broad Form Property Damage	Not Excluded or Limited	
▪ X,C,U	Not Excluded or Limited	
B. Automobile Liability, including	\$1,000,000 CSL	
▪ Owner		
▪ Hired		
▪ Non-Owned		
C. Excess Umbrella Liability		\$5,000,000
D. Worker's Compensation	Statutory (IC-1, Section IX)	
E. New York Disability	Statutory (IC-1, Section IX)	
F. Builders' Risk-All Risk. The policy is required. The Prime Contractors shall procure and maintain Insurance against loss by fire, extended coverage, vandalism and malicious mischief upon all work in place and all materials and equipment stored on and off the building site. This insurance shall be in an amount equal to the full insurable value at all times and shall be for the benefit of the Owner and each Prime Contractor, as their interest might appear. The Policy must carry the County of Erie as the named insured.		

5.02 CERTIFICATES OF INSURANCE

- A. Shall be made to the "County of Erie"
95 Franklin Street, Buffalo, New York, 14202.
- B. Coverage must comply with all requirements of "Instructions for County of Erie Standard Insurance Certificate" page IC-1 of this Project Manual.

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- C. Executed by an insurance company and/or agency or broker which is licensed by the Insurance Department of the State of New York. If executed by a broker, notarized copy of authorization to bind or certify coverage must be attached.
- D. All policies in which the County of Erie is named as an additional insured shall provide that:
- E. "The insurance company or companies issuing the policies shall have no recourse against the County of Erie for payment of any premiums or for assessments under any form of policy."
- F. "The insurance shall apply separately to each insured (except with respect to the limit of liability)."
- G. During the term of this Agreement, the Contractor agrees to maintain insurance coverage consistent with the insurance requirements attached hereto. Contractor agrees to name the "County of Erie" as an additional insured on all such insurance policies, and to provide to the County Attorney certificate(s) of insurance evidencing such insurance coverage prior to the commencement of any work on the Project. All insurance certificates shall be subject to approval by the office of the County Attorney.

5.03 PERFORMANCE, LABOR AND MATERIAL PAYMENT BOND - The Contractor shall furnish, as required elsewhere in the General Conditions. A Performance, Labor and Material Payment Bond in a sum equal to the Contract amount, including change order values. The form of such bond shall be the Owner's Standard Performance, Labor and Material Payment Bond which is exhibited elsewhere in the Project Manual. The bond shall be written with a Surety Company licensed or otherwise authorized to do business in the State of New York.

The Performance Bond shall be submitted by the successor bidder no later than 7 days after notice of an award.

5.04 PATENTS AND ROYALTIES - If any design, device, material or process covered by letters, patent or copyright is used by the Contractor, he shall provide for such use by legal agreement with the Owner of the patent or a duly authorized licensee of such owner, and shall save harmless the Owner from any and all loss or expense on account thereof, including its use by the Owner.

5.05 PERMITS - All permits and licenses necessary for the prosecution of the work shall be secured by the Contractor as required and/or as directed by the Architect/ Engineer as described within the Project Documents.

The Contractor shall apply for and obtain a Building Permit from the Department of Public Works prior to the start of the work. The Contractor shall also submit proof of NYS Worker's Compensation and NYS Disability Benefit's Insurance on forms as prescribed by NYS. No work shall be started until the County has issued a valid Building Permit to the Contractor. Building in violation of a valid Building Permit is cause for the County to issue a Stop Work Order. The Contractor will not be required to submit stamped drawings as part of the application process. Building Permit Forms are included in Appendix B.

5.06 LAWS TO BE OBSERVED - The Contractor shall give all notices and comply with all Federal, State and Local Laws, Ordinances and Regulations in any manner affecting the conduct of the work, and all such order and decrees as exist, or may be enacted by bodies or tribunals having any jurisdiction or authority over the work, and shall indemnify and save harmless the Owner against any claim or liability arising from or based on, the violation of any such law, ordinance, regulation, order or decree, whether by himself or his employees.

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- 5.07 PROTECTION OF PROJECT AND PUBLIC - The Contractor shall provide adequate signs, barricades, flashing and/or red lights and take all necessary precautions for the safety of the public and the protection of the work against loss or damage. All barricades and obstructions shall be protected at night by signal lights which shall be kept burning or flashing from sunset to sunrise. Barricades shall be of substantial construction and shall be so painted or coated as to increase their visibility at night. Suitable warning signs shall be so placed and illuminated at night as to show in advance where construction, barricades or detours exist. The Contractor shall inform himself as to conditions likely to be applicable to the site and shall, in any case, provide such watchmen, guards, watchdogs or other services as appear necessary to protect the work and workmen from damage or injury from vandalism, malicious mischief or other hazard.
- 5.08 TRAFFIC SAFETY AND CONVENIENCE - The Contractor shall at all times so conduct his work as to insure the least possible obstruction to traffic and to minimize inconvenience to the general public and the residents in the vicinity of the work, and to insure the protection of persons and property in a manner satisfactory to the Architect/Engineer. No road or street shall be closed to the public except with the permission of the Architect/Engineer and proper governmental authority. Fire hydrants on or adjacent to the work shall be kept accessible to firefighting equipment at all times. Temporary provisions shall be made by the Contractor to insure the use of sidewalks and the proper functioning of all gutters, sewer inlets, drainage ditches and irrigation ditches, which shall not be obstructed except as approved by the Architect/Engineer under conditions assuring satisfactory detour and/or by-pass facilities.
- 5.09 CROSSING UTILITIES - When new construction crosses highways, railroads, streets or utilities under the jurisdiction of State, County, City or other public agency, public utility or private entity, the Contractor shall secure written permission from the proper authority before executing such new construction. A copy of this written permission must be filed with the Owner before any work is done. The Contractor will be required to furnish a release from the proper authority before final acceptance of the work.
- 5.10 SANITARY PROVISIONS - The Contractor shall provide and maintain such sanitary accommodations for the use of his employees and those of his subcontractors as may be necessary to comply with the requirements and regulations of the local and State departments of health and as directed by the Architect/Engineer.

SECTION 6 - PROGRESS AND COMPLETION OF WORK

- 6.01 NOTICE TO PROCEED - Following authorization of the Contract by the Owner, written Notice to Proceed with the work shall be given to the Contractor. The Contractor shall begin and shall prosecute the work regularly and uninterruptedly thereafter (unless otherwise directed in writing by the Owner) with such labor force as to secure the completion of the work within the time stated in the Proposal.
- 6.02 LAYING OUT WORK
- A. The Contractor shall, immediately upon entering the project site for the purpose of beginning work, locate all general reference points and take such action as is necessary to prevent their destruction. He shall lay out his own work and be responsible for all lines, elevations and measurements of structures, grading, paving, utilities and other work executed by him under the Contract. He must exercise proper precaution to verify figures shown on drawings before laying out work and will be held responsible for any error resulting from his failure to exercise such precaution.
- B. The Contractor shall be responsible for correlation of all work.
- 6.03 METHODS OF MATERIALS
- A. If alternate methods or materials from those specified are accepted and approved by the Owner, the Contractor shall be responsible for the equivalent operation and performance, and the proper installation in the space designated of the substituted material or system.

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- B. When job conditions require reasonable changes in indicated locations and arrangements, such changes shall be made without extra cost to the Owner.
- 6.04 CONTRACT TIME - The Contractor shall complete, in an acceptable manner, all of the work contracted for in the time stated in the Agreement, commencing with the date of Notice to Proceed.
- 6.05 PROGRESS SCHEDULE
- A. The Contractor shall prepare a progress schedule to indicate the proposed progress of work. The progress schedule shall be in the form of a bar graph or other approved method.
- B. The progress schedule shall be submitted to the Owner for application of work sequencing approval within fourteen (14) days of Notice to Proceed.
- 6.06 CHANGES IN THE WORK - The Owner may, as the need arises, order changes in the work through additions, deletions, or modifications without invalidating the Contract. Compensation and time of completion affected by the change shall be adjusted at the time of ordering such change, and shall be specified in a written Change Order approved by the Owner on recommendation by the Architect / Engineer.
- 6.07 EXTRA WORK - New and unforeseen items of work found to be necessary and which cannot be covered by any item or combination of items for which there is a Contract price shall be classed as Extra Work. The Contractor shall do such Extra Work and furnish such materials as may be required for the proper completion or construction of the whole work contemplated upon written Change Order by the Owner on recommendation by the Architect / Engineer. Materials to be incorporated into the project shall be sold to the Owner separately and apart from the furnishing of work, labor and other items required for the construction of the project in the same manner and with the same effect as if specified in the Bid Documents. In the absence of such written order, no claim for Extra Work shall be considered. Extra Work shall be performed in accordance with these Specifications where applicable and work not covered by the Specifications or special provisions shall be done in accordance with the best practice as approved by the Architect / Engineer. Extra Work required in an emergency to protect life and property shall be performed by the Contractor as required.
- 6.08 EXTENSION OF CONTRACT TIME - A delay beyond the Contractor's control occasioned by an Act of God, or act or omission on the part of the Owner by strikes, lockouts, fire, etc. may entitle the Contractor to an extension of time in which to complete the work as determined by the Architect / Engineer, provided, however, that the Contractor shall immediately give written notice to the Architect / Engineer of the cause of such delay. If an extension of time is granted, the approved Progress Schedule shall be updated and a change order issued covering the extension of time. The Contractor's signature on the change order shall signify the Contractor's acceptance of the updated Progress Schedule.
- 6.09 USE OF COMPLETED PORTIONS - The Owner shall have the right to take possession of and use any completed or partially completed portions of the work, notwithstanding that the time for completing the entire work or such portions may not have expired; but such taking possession and use shall not be deemed an acceptance of any work not completed in accordance with the Contract Documents. If such prior use increases the cost of or delays the completion of uncompleted work or causes refinishing of completed work, the Contractor shall be entitled to such extra compensation, or extension of time or both, as the Owner and Contractor may agree.
- 6.10 EXISTING UTILITIES - The operation of existing active utilities, including gas, water, sewer, electric and telephone lines, shall not be disturbed except as required to connect new utilities thereto.
- 6.11 SITE CONDITIONS - The Contractor shall maintain the site so as to avoid unhealthful, hazardous and noisome conditions. He shall maintain excavations free of the accumulation of excess water.

- 6.12 PREVENTION OF DELAY - The Contractor agrees that there will be no interruption in the performance of the work under this agreement due to labor strife or unrest. The Contractor and his subcontractors will not employ on the work, any labor, materials or means whose employment or utilization during the course of this contract may tend to or in any way cause or result in strikes, work stoppages, delays, suspension of work or similar troubles by workmen employed by the Contractor or his subcontractors or by any of the trades working in or about the buildings and premises where work is being performed under this contract, or by other contractors or their subcontractors pursuant to other contracts, or on any other building or premises owned or operated by the County of Erie. Any violation by the Contractor of this requirement will be considered proper and sufficient cause for the County, through the Department of Public Works – Office of the Commissioner to consider such interruption a breach of the agreement and to cancel the contract without any penalty to the County, and to recover any damages from the Contractor that may have been caused by labor strife and unrest.

SECTION 7 - MEASUREMENT AND PAYMENT

- 7.01 DETAILED BREAKDOWN OF CONTRACT AMOUNT - Except in cases where unit prices form the basis for payment under the Contract, the Contractor shall within ten (10) days of receipt of Notice to Proceed submit a complete breakdown of the Contract Amount showing the value assigned to the materials sold to the Owner for, and separately, the labor and other costs assigned to each part of the work, including any allowances as part of the base bid. Upon approval of the breakdown of the Contract Amount by the Architect / Engineer, it shall be used as the basis for all Requests for Payment.

Allowances and any future approved change orders shall be shown on the request for payment worksheets as separate line items. Request for payment worksheet can be found in specification Section 011500 – Application For Payment.

7.02 REQUESTS FOR PAYMENT

- A. The Contractor may submit periodically, but not more than once a month, a Request for Payment for work done. The Contractor shall furnish the Architect / Engineer all reasonable facilities required for obtaining the necessary information relative to the progress and execution of the work. Each Request for Payment shall be computed on all items listed in the Detailed Breakdown of Contract Amount, less 5% to be retained until substantial completion and acceptance of the work and less previous payments.
- B. Upon the issuance of a letter of substantial completion by the Owner, the Contractor shall prepare a detailed listing of all items of work or corrections yet to be performed on the project with monetary value assigned to each. He shall forward said list to the Architect/Engineer and the Owner, who may modify such list at their discretion. The Owner reserves the sole right to reduce the retention previously withheld to any amount equal to two times the value of the outstanding work items and corrections yet to be performed with monetary values assigned to each as determined by the Owner, and an amount necessary to satisfy any claims, liens, or judgments against the Contractor which have not been suitably discharged. As the remaining items of work are satisfactorily completed or corrected, the Owner shall promptly pay, upon receipt of a requisition, for these items less amount necessary to satisfy any claims, liens or judgments against the Contractor which have not been suitably discharged. Where unit prices are specified, the Request for Payment shall be based on the quantities expended.
- C. For purposes of monitoring the payment progress, the Contractor shall submit a detailed breakdown on a proper County form indicating items of work and separately listing labor and material cost for each item.

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- D. The Owner will make payments for stored materials at off-site locations provided said materials are suitably stored (a) in public warehouses, or (b) at the contractor's place of business or other location approved by the Owner, in which case the materials shall be segregated and have affixed to them in prominent locations placards stating "this material is the property of the County of Erie". All materials to be considered for payment shall be stored within a 100 mile radius of the County of Erie. The materials shall be completely covered by insurance. The required insurance shall be an all-risk policy, in an amount equal to the full insurable value at all times and shall be for the benefit of the County of Erie (named insured). In addition to the necessary insurance, a notarized affidavit shall be provided at the time of request for payment, indicating the location of the stored material. The Owner shall have the right of access to inspect the material at any time during normal working hours. All other appropriate insurance requirements and procedures as stipulated in Section 5 of the Erie County General Conditions shall apply.

7.03 ARCHITECT / ENGINEER'S ACTION ON A REQUEST FOR PAYMENT - Within ten (10) days of submission of any Request for Payment by the Contractor, the Architect / Engineer shall:

- A. Approve the Request for Payment as submitted; or
- B. Approve such other amount as he shall decide is due the Contractor, informing the Contractor in writing for his reasons for approving the amended amount; or
- C. Withhold the Request for Payment, informing the Contractor in writing of his reasons for withholding it.

7.04 OWNER'S ACTION ON AN APPROVED REQUEST FOR PAYMENT - Within forty-five days (45) from the date of approval of a Request for Payment by the Architect / Engineer, the Owner shall:

- A. Pay the Request for Payment as approved, or
- B. Pay such other amount in accordance with Paragraph 7.05 as he shall decide is due the Contractor, informing the Contractor and the Architect / Engineer in writing of his reasons for paying the amended amount; or
- C. Withhold payment in accordance with paragraph 7.05, informing the Contractor and the Architect / Engineer of his reasons for withholding payment.

7.05 OWNER'S RIGHT TO WITHHOLD PAYMENT OF AN APPROVED REQUEST FOR PAYMENT - The Owner may withhold payment in whole or in part on an approved Request for Payment to the extent necessary to protect himself from loss on account of any of the following causes discovered subsequent to approval of a Request for Payment by the Architect / Engineer :

- A. Defective work.
- B. Evidence indicating the probable filing of claims by other parties against the Contractor.
- C. Failure of the Contractor to make payments to sub-contractors, material suppliers and suppliers of labor.
- D. Damage to another contractor.

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- E. Lack of progress of work for by a contractor that affects the progress of work of other contractors under a separate contract related to the same project. The County reserves the right to withhold payment until work has progressed to a satisfactory manner and/or to compensate other contractors under separate contracts related to any project delays. This would include but not be limited to; labor, materials and equipment associated with any necessary rework, compensation for extended completion of work duration, extended schedule of work, mobilization/ remobilization of other prime contractors.

The above does not include unforeseen work and/or unforeseen conditions that add time and/or costs to the project that is unavoidable by contractors.

7.06 RESPONSIBILITY OF THE CONTRACTOR - Unless specifically noted otherwise, the Contractor shall furnish and pay for all materials and services and perform all the work described by the Contract Documents, or shall have all materials and services furnished and all the work, performed at his expense. It shall also be the Contractor's responsibility to pay for:

- A. Replacement of survey benchmarks, reference points and stakes provided by the Owner under Paragraph 2.15.
- B. Lands by Contractor provided in accordance with Paragraph 3.08.
- C. Insurance obtained in accordance with Paragraph 5.01.
- D. Fire Insurance obtained in accordance with Paragraph 5.01.
- E. Performance Labor and Material Payment Bond obtained in accordance with Paragraph 5.04.
- F. Royalties required under Paragraph 5.05.
- G. Permits and Licenses required of the Contractor and all subcontractors.
- H. All applicable taxes and fees, including sales and compensating use taxes except sales and compensating use taxes of the State of New York and of cities and counties of the State, on all materials sold to the Owner under this Contract.

7.07 PAYMENT FOR UNCORRECTED WORK - Should the Architect / Engineer direct the Contractor not to correct work that has been damaged or that was not performed in accordance with the Contract Documents, an equitable deduction from the Contract Amount shall be made to compensate the Owner for the uncorrected work.

7.08 PAYMENT FOR REJECTED WORK AND MATERIALS - The removal of work and materials rejected under Paragraph 4.05 and the re-execution of acceptable work by the Contractor shall be at the expense of the Contractor, and he shall pay the cost of the replacement of work of other contractors destroyed or damaged by the removal of the rejected work or materials and the subsequent replacement of acceptable work.

- A. Removal of rejected work or materials and storage of materials by the Owner in accordance with Paragraph 4.05 shall be paid by the Contractor within thirty (30) days after written notice to pay is given by the Owner. If the Contractor does not pay the expenses of such removal and after ten (10) days' written notice being given by the Owner of his intent to sell the materials, the Owner may sell the materials at auction or at private sale and shall pay to the Contractor the net proceeds there from after deducting all the costs and expenses that should have been borne by the Contractor.

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7.09 PAYMENT FOR EXTRA OR OMITTED WORK - The Contractor after receiving instructions to submit a proposal for Extra Work or for the Omission of Work shall within ten (10) days, except in an emergency endangering life and/or property, furnish the Architect / Engineer with a Change Order Proposal for transmittal to the Owner. The Contractor shall also submit to the Architect / Engineer an itemized sheet or sheets showing the labor, and separately, the materials to be sold to the Owner involved in the Change Order, together with (1) a maximum mark-up for overhead and profit of 15% on the sum of the aforementioned where the work is to be performed solely by the Contractor, or (2) a maximum mark-up for overhead and profit of 10% by a sub-contractor where the work is to be performed by the sub-contractor with a 5% maximum mark-up by the contractor on the total sub-contractor cost proposal. The Architect / Engineer shall promptly review the change order proposal and forward it to the Owner, together with his recommendations. The addition to or deduction from the contract amount shall be a sum for the materials sold to the Owner and a separate sum for labor and other costs, based on the Contractor's proposal, approved by the Architect / Engineer and accepted by the Owner.

The County is due a credit or a reduction in the total contract amount for omitted work that was originally included in the scope of work; whether it was included in the base bid or by an increase contract amendment (change order). The work previously agreed upon that is not performed by the contractor will result in a decrease contract amendment (credit change order) at a negotiated price between the design consultant (if applicable) The County and contractor. If the decrease contract amendment is in relation to a previously approved change order, the Overhead and Profit percentages as described above will still apply to the portion of said change order that is being credited. The County will also be credited any unused portion of a given allowance included within the base bid via a decrease contract amendment.

7.10 PAYMENT FOR WORK SUSPENDED BY THE OWNER - If the work or any part thereof shall be suspended by the Owner, the Contractor will then be entitled to payment for the cost of all work done on the portions so abandoned, but such payment shall not exceed the value of such portion of the work as established under Paragraph 7.01.

7.11 PAYMENT FOR WORK BY THE OWNER - The cost of the work performed by the Owner in removing construction equipment, tools and supplies in accordance with Paragraph 3.11 and in correcting deficiencies in accordance with Paragraph 3.13 shall be paid by the Contractor.

7.12 PAYMENT FOR WORK BY THE OWNER FOLLOWING HIS TERMINATION OF THE CONTRACT - Upon termination of the Contract by the Owner in accordance with Paragraph 3.14, no further payments shall be due the Contractor until the work is completed. If the unpaid balance of the Contract Amount shall exceed the cost of completing the work, including all overhead cost, the excess shall be paid to the Contractor. If the cost of completing the work shall exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The cost incurred by the Owner, as herein provided, and the damage incurred through the Contractor's default, shall be certified by the Owner, and approved by the Architect / Engineer.

7.13 PAYMENT FOR WORK TERMINATED- Upon suspension of the work or termination of the Contract by the Owner, the Contractor shall recover payment from the Owner for the work performed as negotiated with the owner.

7.14 PAYMENT FOR SAMPLES AND TESTING OF MATERIALS - Samples furnished in accordance with Paragraph 2.11 shall be furnished by the Contractor at his expense.

A. Testing of samples and materials furnished in accordance with Paragraph 2.11 shall be arranged and paid for by the Owner unless otherwise specified in the detailed specifications.

7.15 RELEASE OF LIENS - The Contractor shall deliver to the Owner a complete release of all liens arising out of this Contract before the retained percentage or before the final Request for Payment is paid.

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- 7.16 ACCEPTANCE AND FINAL PAYMENT - When the Contractor shall have completed the work in accordance with the terms of the Contract Documents, the Architect / Engineer shall certify his acceptance to the Owner and his approval of the Contractor's final Request for Payment, which shall be the Contract Amount plus all approved additions less all approved deductions and less previous payments made. The Contractor shall furnish evidence that he has fully paid all debts for labor, materials, and equipment incurred in connection with the work, following which the Owner shall accept the work and release the Contractor except as to the conditions of the Performance Bond, any legal rights of the Owner, required guarantees, and Correction of Faulty Work after Final Payment, and shall authorize payment of the Contractor's final Request for Payment. The Contractor must allow sufficient time between the time of completion of the work and approval of the final Request for Payment for the Architect / Engineer to assemble and check the necessary data.
- 7.17 TERMINATION OF CONTRACTOR'S RESPONSIBILITY - The Contract will be considered complete when all work has been finished, the final inspection made by the Architect / Engineer, and the project accepted in writing by the Owner. The Contractor's responsibility shall then cease, except as set forth in his Performance Bond, as required by the Guaranty Period in accordance with Paragraph 4.09, and as provided in Paragraph 7.18.
- 7.18 CORRECTION OF FAULTY WORK AFTER FINAL PAYMENT - The approval of the final Request for Payment by the Architect / Engineer and the making of the final payment by the Owner to the Contractor shall not relieve the Contractor of responsibility for faulty materials or workmanship. The Owner shall promptly give notice of faulty materials or workmanship and the Contractor shall promptly replace any such defects discovered within two years from the date of written acceptance of the work, or within such longer period as may be incorporated in the Detailed Specification Requirements. The Architect / Engineer shall decide all questions arising under this paragraph.

SECTION 8 - WAGES AND LABOR CONDITIONS

- 8.01 WORKING HOURS - No laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this 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 the emergencies set forth in the Labor Law.
- 8.02 WAGE RATES AND SUPPLEMENTS - Each laborer, workman or mechanic, employed by the Contractor, subcontractor or other person about or upon such public work, shall be paid not less than the prevailing rates of wages and shall be provided supplements not less than the prevailing supplements, as determined by the Industrial Commissioner of the State of New York (see "Information for Bidders").
- 8.03 DISCRIMINATION
- A. 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;
 - B. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under this contract on account of race, creed, color or national origin;
 - C. There may be deducted from the amount payable to the Contractor by the County of Erie under this contract a penalty of five dollars for each person for each calendar day during which such person was discriminated against or intimidated in violation of the provisions of the contract;

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- D. This contract may be cancelled or terminated by the County of Erie and all moneys due or to become due hereunder may be forfeited, for a second or any subsequent violation of the terms or conditions of this section of the contract; and
- E. The aforesaid provisions of this section covering every contract for or on behalf of the County of Erie for the manufacture, sale or distribution of materials, equipment or supplies shall be limited to operations performed within the territorial limits of the State of New York.
- F. General Regulation No. 1 as issued by the State Commission Against Discrimination states: "It is hereby agreed by and between the parties hereto that every contractor and subcontractor engaged in the public work described in this contract shall post and maintain at each of his establishments and at all places at which the public work described hereunder is being conducted, the Notice of the State Commission Against Discrimination indicating the substantive provision of the Law Against Discrimination, where complaints may be filed, and other pertinent information. Such Notice shall be posted in easily accessible and well lighted places customarily frequented by employees and applicants for employment."
- G. Provision of the State Law Against Discrimination also prohibits discrimination in employment because of age.

8.04 EQUAL EMPLOYMENT OPPORTUNITY

In the performance of work under Erie County Contracts or any subcontract, no Contractor, subcontractor, nor any person acting on behalf of such Contractor, or subcontractor, in their employment practices, shall by reason of race, color, national origin, sex, age, religion, marital status, or disability discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates. Reference Title VI of the Civil Rights Act of 1964 (42 USC 200d).

Executive Order 11245, 30 Federal Regulation 12319 (1965) (Equal Opportunity Clause)

During the performance of Erie County contracts, the Contractor agrees:

- A. The Contractor will not discriminate against any employee or applicant for employment because of race, color, national origin, sex, age, religion, marital status, or disability. The Contractor will take affirmative action to ensure the applicants are employed and employees are treated during employment, without regard to their race, color, national origin, sex, age, religion, marital status, or disability. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- B. The Contractor agrees to appoint an Equal Employment Opportunity (EEO) officer whose function will be to assure that said Contractor participates fully and effectively in the County of Erie Affirmative Action Program in compliance with the requirements of the County of Erie Contract.
- C. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the EEO officer setting forth the provisions of this non-discrimination clause.
- D. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor; state that all qualified applicants will receive consideration for employment without regard to race, color, national origin, sex, age, religion, marital status, or disability.

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- E. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the organization EEO officer, advising the labor union or workers' representative of the Contractor's commitment under Executive Order No. 11246 on September 24, 1965 and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- F. The Contractor will file, by the fifteenth day of each month with the EEO office and the Contracting Agency, a monthly manpower utilization report of his work force on the Erie County project for the preceding month, broken down by racial groups, craft status, and job classification and including (a) the number of minority workers he has secured and (b) the type of On-the-Job Training he has provided on the Erie County project, the classification of said minority participants (apprentices, journeymen, and trainees), the specific crafts in which they have received training, and the number of hours they have worked.
- G. The Monthly Manpower Utilization Report shall be attached to every Request for Payment Application. Payment Requests will not be reviewed unless the manpower utilization report is attached.
- H. The Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965 and all relevant rules, regulations, and orders of an Erie County Contract and the Erie County Affirmative Action Program.
- I. In the event of the Contractor's non-compliance with the nondiscrimination clauses of an Erie County Contract or with any such rules, regulations, or orders that contract may be cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Erie County contracts in accordance with the procedures authorized in Executive Order No. 11246 or as otherwise provided by law.
- J. The Contractor will include the provisions of paragraphs a. through i. in every subcontract or purchase order unless specifically exempted by the rules, regulations, or orders, of an Erie County contractual agreement, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontractor or purchase order as the Contracting Agency may direct as a means of enforcing such provisions including sanctions for non-compliance; provided, however, that in the event the Contractor becomes involved in, or is threatened with litigation with any subcontractor or vendor as a result of such direction by the Contracting Agency, the Contractor may request the County of Erie to enter into such litigations to protect the interests of the County of Erie.

8.05 MONITORING

- A. The EEO Office has the responsibility of administering the Monitoring Program for the County of Erie and its Affirmative Action Program. During the monitoring of an organization, the EEO Office shall receive the full cooperation of the Contracting Agency in dealing with organizations needing remedial actions.
- B. The objective of the County of Erie's Monitoring Program is a systematic review, by the EEO Office, of the Contractor's performance in meeting the goals of minority utilization at each level of his work force. There will be two basic results from the County of Erie's monitoring process:
- C. Acceptable achievement or progress, according to the program for construction contracts on County of Erie projects, toward the County of Erie's goal of 13.2% minority manpower utilization, and in addition, the County of Erie's goal for the utilization of women in the area of construction shall be in accordance with the U.S. Department of Labor's goal of 6.9%.

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1. Insufficient progress toward goals according to the program; if an organization is found to be unwilling to correct deficiencies after a recommended non-compliance investigation, the County of Erie may:
 - a. Summon the Contractor to a hearing
 - b. Withhold progress payments in part or in full
 - c. Cancel the Contract
 - d. Bar the award of future contracts until the Contractor can demonstrate that he will comply
- D. The County of Erie's Monitoring Program will consist of both Off-Site and On-site monitoring.
- E. Off-Site monitoring program shall consist of Monthly Employment Utilization reports submitted via LCPtracker. Due to the regular turnover of the work force of a construction Contractor and because of Federal Compliance reporting requirements, all Contractors and subcontractors must submit these monthly reports to the Erie County EEO Office and the Contracting Agency. These reports will state an employee's EEO identification trade, classification, hours worked, and the percentage of completion for each County of Erie project for each reporting month.
- F. On-Site monitoring, for the purpose of verifying these monthly reports, will be dependent on but not limited to:
 1. The compliance status of each Contractor for each County of Erie construction project.
 2. Length of the contract, subcontract, or grant and its percentage of completion.
 3. Size of the labor force of the organization.
 4. Degree of employment opportunity the County of Erie contract, subcontract, or grant will offer to minority workers.
 5. Past record of affirmative action achievement of the organization.
 6. Past record of affirmative action compliance performance under the EEO Office.
- G. The EEO Office will have an ongoing Master File, dealing with each Contractor or subcontractor for each County of Erie construction project participated in for reference of the past performance of each Contractor.
- H. In the event any deficiencies are found during an Off-Site or On-Site analysis, organization officials shall receive a summary of these deficiencies and the audits made for each reporting month. Any violations found will be fully explained and discussed with the Contractor or subcontractor. During discussions with the EEO Office and the Contracting Agency, alternative solutions to particular problems will be explored. At this time, attempts will be made to obtain the Contractor's agreement to take action by specified dates and a duplicate copy of the agreement will be sent to the Contractor or subcontractor.

8.06 COUNTY OF ERIE MINORITY AND WOMEN'S BUSINESS ENTERPRISE COMMITMENT
Minority/Women's Business Utilization Commitment:

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- A. Erie County's Minority and Women's Business Utilization Local Law. No. 6, 1987 requires all prime contractors awarded construction contracts let by the County of Erie to exemplify Affirmative Action and subcontract to minority and women's business enterprises MBE/WBE. For the purpose of these regulations, the term "Minority Business Enterprise" refers to a business at least fifty-one percent (51%) of which is owned and controlled by minority group members. Minority group members are citizens of the United States who are Blacks, Hispanics, Asian Americans, American Indians, Eskimos and Aleuts. MBE's must be certified by the Erie County and/or the Erie County City of Buffalo Joint Certification Committee.
1. For the purpose of these regulations the term "Women's Business Enterprise" refers to a business at least fifty-one percent (51%) of which is owned and controlled by women. WBE's must be certified by Erie County and/or the Erie County/City of Buffalo Joint Certification Committee.
 2. Be it further understood that in order for a Minority and/or Women's Business to be certified as such by Erie County and/or the Erie County City of Buffalo Joint Certification Committee and the proposed business is incorporated, that the MBE/WBE must own and control 51% of the stock authorized to be issued by the corporation. Such authorization is made in the Certificate of Incorporation.
 3. The County of Erie has determined that a goal of ten percent (10%) of the total contract value represents a fair share of minority business utilization and two percent (2%) of the total contract value represents a fair share of women's business utilization on each construction contract awarded.
 4. This local law requires that positive efforts be made by recipients of Erie County construction contracts to utilize minority and women owned business sources for supplies, services and professional services, allowing these sources the maximum feasible opportunity to compete for contracts, subcontracts and third-tier contracts to be performed.
 5. All prime contractors awarded Erie County contracts estimated to exceed \$100,000 are to take positive steps "to afford fair opportunities to MBE's and WBE's". Positive steps shall include but not be limited to:
 - a. Utilizing a source list of bona fide minority and women's business enterprises.
 - b. Solicitations of bids from MBE's and WBE's particularly of those located in Erie, Niagara, Cattaraugus and Chautauqua Counties.
 - c. Giving minority and women firms' sufficient time to submit proposals in response to solicitations.
 - d. Maintaining records showing minority and women's business enterprises and specific efforts to identify and award contracts to these companies.
 - e. Each contractor bidding on a County of Erie Contract is to contact MBE's and WBE's and solicit bids for various aspects of each project. The contractor is to supply the County MBE/WBE office with information regarding contracts for services and products with minority and women's business enterprises and the dollar amount of each contract on the Minority Business Utilization Report.
 6. Where the MBE or WBE is a supplier, a credit of one hundred percent (100%) of the dollar value of the subcontract between the MBE or WBE and the Contractor shall be awarded toward the fulfillment of the appropriate goal.

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7. For purposes of this Section, a MBE or a WBE will be considered a supplier when it:
 - a. Assumes actual and contractual responsibility to furnish supplies and/or materials and is the manufacturer of those supplies and/or materials; or
 - b. Is recognized by the manufacturer involved as a distributor of its supplies and/or materials; and
 - c. Owns or leases a warehouse, yard, building or other facility which is necessary and customary to carry out the purported function of the business; and
 - d. Distributes, delivers and services the supplies and/or materials with its' own staff.
8. Where an MBE or WBE performs a sales function, which is customarily performed as a distinct and necessary part of the supply process, a credit of twenty-five percent (25%) of the dollar value of the subcontract between the MBE or WBE, the Contractor will be awarded toward the fulfillment of the appropriate goal.
9. Where the MBE or WBE performs a function or service which is commercially unnecessary, such as acting as a passive conduit in the supply process of duplicating a service provided by others in the same chain of supply from manufacturer to purchaser, no credit will be granted toward the appropriate goal.
10. The qualifications set forth in subsections, above of this Action shall be certified by the Erie County Equal Employment Opportunity Office.
11. All bidders shall submit a properly executed Minority/Women Business Enterprise Utilization Report Part A with their bid proposal at the time of bid.
12. In the event of a joint venture participating in this MBE/WBE Program, the Joint Venture Disclosure Affidavit must be submitted with the Minority/Women Business Enterprise Utilization - Prime Contractor Affidavit. Only to the extent that a minority and/or women's business enterprise contributes to and is paid for its participation in a Joint Venture will that dollar amount be credited towards the 10% and/or 2% respectively goal of minority/women's participation in the County of Erie MBE/WBE Program.
13. MBE's and WBE's must be certified before their participation may be credited toward the respective 10% and 2% goal. Where the proposed MBE and/or WBE are not certified by Erie County or the Erie County/City of Buffalo Joint Certification Committee, the appropriate Certification Disclosure Affidavit must be filed with the appropriate Erie County/City of Buffalo Department. Forms and lists of certified MBE's/WBE's may be obtained by calling 858-7542.
14. Should a bidder conclude that they would be unable to satisfy the MBE/WBE goal, the bidder shall submit a properly executed Minority/Women Business Enterprise Utilization – Waiver Request Form with their bid proposal. Waivers shall be granted only where the availability of MBE's and/or WBE's in the market area of the project is less than the respective 10% and 2% goal.
15. Sufficient information must be provided on the Minority and/or Women's Business Enterprise Utilization Waiver Request to ascertain whether a waiver should be approved, conditionally approved or rejected by the Department of Public Works on the advice of the MBE/WBE Office.
16. A waiver approval limits the contractor's obligation to solicit MBE's and/or WBE's for a particular project only. It does not relieve the contractor of MBE/WBE utilization for any other County of Erie project on which he submits a bid.

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17. Conditional approval of the waiver request makes it necessary for the contractor to continue soliciting MBE's/WBE's for contracting purposes, after he has been declared the low bidder.
18. A MBE/WBE Utilization Waiver Request will be rejected if the contractor:
 - a. Fails to provide information on the Minority and/or Women's Business Enterprise Utilization Report at the time of the Bid opening.
 - b. Provides fraudulent information on the MBE/WBE reports.
 - c. Fails to make an honest good faith effort to recruit a contractor with MBE's/WBE's.

or
 - d. Takes any other action which is contrary to the spirit and intent of the law.
19. The information provided on the MBE/WBE Waiver Request and the MBE/WBE Utilization Report will be considered concurrently to determine if a waiver should be approved, conditionally approved or rejected.
20. The successful low bidder shall submit to the Erie County MBE/WBE Office within 15 business days of the bid opening, a schedule for minority/women's business enterprise participation, listing the minority/women's business enterprise with whom the contractor intends to subcontract, specifying the agreed price to be paid for such work, and identifying in detail the contract item(s) or parts to be performed by each minority/women's business enterprise.
21. A letter of intent to enter into a subcontract or purchase agreement, contingent upon contract award, indicating the agreed upon price and scope of work, shall be provided, signed by both the contractor and the minority/women's business enterprise. The prime contractor shall not substitute or delete the listed minority and/or women's business enterprise without the written consent of Erie County.
22. In the event that the MBE/WBE goal for the contract is not met, the contractor shall provide sufficient documentation to establish that every positive effort was made to identify, solicit and negotiate with MBE's and WBE's in pursuit of the goal. Such documentation includes, but is not limited to advertisement in minority-focus media, written contact with minority contractors' associations and community groups and copies of direct solicitation of individual minority businesses indicating sufficient time to prepare quotations. Where an MBE/WBE is rejected due to price, the contractor shall provide documentation of the successful bidder's price along with evidence showing the work to be performed in the same, and not a reduced portion thereof.
23. The contractor shall provide to the Erie County MBE/WBE Office copies of all subcontracts and/or purchase agreements with minority/women's business enterprise within 15 days of contract award. A Notice to Proceed with construction shall not be issued until acceptable documentation is received.
24. Upon completion of the work, the contractor shall provide a properly executed Minority/Women Business Enterprise Utilization Report – Part A-Part D, certifying the total dollar amounts expended to the MBE's & WBE's subcontracted with. This report and all cancelled checks necessary to verify certification are to be submitted to the Erie County MBE/WBE Office, prior to final payment request.
25. In the event a contractor fails to comply with these provisions, Erie County may:
 - a. Summon the contractor to a hearing.

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- b. Withhold progress payments in part or in full.
- c. Cancel the contract.
- d. Bar award of future contracts until the contractor can demonstrate that he will comply.

26. It is, hereby, the County of Erie's commitment to assure that on all contracts awarded, prime contractors expend a fair share of the contract with bona fide Minority and Women Owned business enterprises in accordance with the goals set forth in the Minority Business Utilization Local Law, No. 1, 1987.

27. Failure to comply with the provisions of the law shall constitute a break of contract subject to all remedies available to Erie County.

28. The Prime Contractor and all Minority and Women Owned Business subcontractors are bound by all requirements as put forth in the County of Erie Standard General Conditions and all modifications thereto contained in these Contract Specifications.

8.07 COUNTY OF ERIE EXECUTIVE ORDER #13 "PAY EQUITY CERTIFICATION ON COUNTY CONTRACTS"

A. During the term of this Contract, the agency shall comply with Executive Order 13 (2014), and the Agency shall make such records available, upon request, to the County's Division of Equal Employment Opportunity for review. The County shall have the right, upon reasonable notice and at reasonable times, to inspect the books and records of the agency, its offices and facilities, for the purpose of verifying information supplies in the Erie County Equal Pay Certification and for any other purpose reasonably related to confirming the Agency's compliance with Erie County Executive Order No. 13 (2014). Violation of the provisions of Executive Order 13 (2014) which is attached hereto and made a part hereof, can constitute grounds for the immediate termination of this contract and may constitute grounds for determining that a bidder is not qualified to participate in future county contracts.

- 1. Refer to Appendix C for the Erie County Executive Order #13 and Equal Pay Certification Form.
- 2. The Equal Pay Certification Form shall be submitted with the bid proposal.

8.08 COUNTY OF ERIE EXECUTIVE ORDER #18 "FIRST SOURCE HIRING POLICY FOR COUNTY CONSTRUCTION PROJECTS"

A. During the term of this Contract, Erie County Executive Order No. 18 (2017) may apply. Violation of the provisions of Executive Order 13 (2014) which is attached hereto and made a part hereof, can constitute grounds for the immediate termination of this contract and may constitute grounds for determining that a bidder is not qualified to participate in future county contracts.

- 1. Refer to Appendix D of the General Conditions for the Erie County Executive Order #18, Rules and Regulations, Erie County Local and Disadvantaged Worker Compliance Certification, County of Erie Executive Order #18 Monitoring and Reports, and First Source Policy Targeted Zip Codes.
 - a. First Source Policy Targeted Zip Codes are provided for information only and subject to change.
 - b. Be advised that the Contractor will be required to provide monthly reports demonstrating good faith effort to meet the required work force goals using LCPtracker web-based software.

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2. The Erie County Executive Order #18 Attestation and Statement of Workforce shall be submitted with the bid proposal.
- B. Requirements of Executive Order No.18 are as shown in Appendix D of the General Conditions and are summarized below. It should be noted that Executive Order No. 18 does not apply to work hours performed by individuals residing outside of New York State per the language of the Executive Order.
- a. 100% of the workforce must be from New York State's 8 Western Counties.
 - b. 70% of the workforce must be from County of Erie.
 - c. 30% of the workforce must be from the identified zip codes included in Appendix D and/or one of the following qualifying disadvantaged status as described below
 - i. Area Medium Income
 - ii. Released from prison in last 10 years
 - iii. Participated in Temporary Assistance for Needy Families Program
 - iv. Participated in Supplemental Nutritional Assistance Program
 - v. Was unemployed for a least 12 consecutive months.

SECTION 9 – ACCOUNTABILITY

- 9.01 The Contractor shall be fully accountable for his performance under this contract and agrees to answer under oath all questions relevant to the performance thereof and to any transaction, act, or omission had, done or omitted in connection therewith if called before any Judicial, County or State Officer or agency empowered to investigate the Contract or its performance.
- 9.02 It shall be the contractor's responsibility for providing and maintaining daily sign-in books for all persons on the project site including; employees, visitors or otherwise at all times during the duration of the project until the project has been completed. Copies of the sign in books are to be provided to the Owner if requested.

**SECTION 10 - THE ERIE COUNTY WORKFORCE DEVELOPMENT AND DIVERSIFICATION NEW YORK
STATE CERTIFIED WORKER TRAINING PROGRAM**

- 10.01 County of Erie Local Law No. 3-2018

COUNTY OF ERIE
LOCAL LAW INTRO NO. 3 - 2018

A LOCAL LAW in relation to a requirement for New York State Certified Worker Training Programs by contractors and subcontractors under construction contracts, as defined herein, with the County of Erie.

BE IT ENACTED BY THE ERIE COUNTY LEGISLATURE AS FOLLOWS:

Section 1. Legislative Intent.

The Erie County Legislature hereby finds, declares and determines that:

- A. New York Labor Law Section 816-b specifically authorizes this Local Law.
- B. There has been a long and productive history of partnership between labor and management in the training of workers in New York State.
- C. New York State Certified Worker Training Programs are valuable educational and training tools for the local workforce by reducing reliance on out-of-area labor for construction projects.
- D. New York State Certified Worker Training Programs provide opportunities to residents in this area through training and education for skilled jobs.
- E. These skilled jobs allow us to reinvest our taxpayer dollars spent on local construction projects so that local workers and local tax dollars remain within the local community.
- F. It would be valuable to encourage labor and business/industry to participate in New York State Certified Worker Training Programs to meet the increased need for trade persons while providing residents the means to earn a better living and fostering the local and regional economies.
- G. It is valuable for local government to encourage broad participation in such New York State Certified Worker Training Programs by the residents of Erie County and to foster the equal opportunity of men and women of all races and backgrounds to participate in order to enhance workforce development and diversification, and to prevent exclusionary practices which have historically excluded women and minorities.
- H. The New York State Department of Labor sets objective standards and provides oversight for New York State Certified Worker Training Programs. These Programs are important because they require on-the-

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job training and classroom training, and provide objective industry standards. In effect these programs lead to a standardized, cost effective and skilled local workforce.

- I. Nothing in this Local Law should be read to abrogate the duty of Erie County with respect to its MBE/WBE requirements.

Section 2. Short Title.

This Local Law shall be known as "The Erie County Workforce Development and Diversification New York State Certified Worker Training Program."

Section 3. Definitions.

- A. "New York State Certified Worker Training Program" shall mean: a state registered and regulated apprenticeship program through the New York State Department of Labor that has been approved by the New York State Commissioner of Labor in accordance with Article 23 of the New York Labor Law, that includes the following standards:
 - i. An organized, written plan in place that embodies the terms and conditions of employment, and the training and supervision of one or more workers;
 - ii. A schedule of wages to be paid to the worker consistent with the skills required and approved by the New York State Department of Labor;
 - iii. Equal opportunity and affirmative action plans;
 - iv. Workforce development and diversification goals to ensure that the contractor will diligently work toward a minority workforce goal of 30% minority and female participation combined in project personnel including trades people, trainees, journeymen, apprentices and supervisory staff;
 - v. A minimum of ten percent (10%) of the total construction workers. Trades people, trainees, journeymen, and apprentices employed at any given time on a particular project by any and all contractors or subcontractors must be consist of persons participating in a New York State Certified Worker Training Program.
 - vi. In all cases, such Certified Apprenticeship Training Program must be specific to the type and scope of work which is being performed and must have a graduation rate of at least thirty percent (30%) as determined by the New York State Department of Labor.
- B. "Commissioner" shall mean the Commissioner of the Erie County Department of Public Works.
- C. "Construction contract" shall mean projects with a value in excess of \$250,000 where Erie County is a direct or indirect party to the contract which includes more than an incidental amount of construction type activity intended to benefit the public, including all work which is necessary, incidental or connected with the execution of the contract which is performed by construction workers. A public entity need not be party to the construction contract. A construction contract includes: projects that Erie County funds directly, projects that Erie County funds indirectly by providing funds to a separate entity to perform the construction type activity; privately financed construction projects specifically built with the intent of leasing them to any Department of Erie County government; and construction projects built under Erie County's direction and later paid for with Erie County funds.
- D. "Construction subcontract" shall mean any subcontract between a contractor who has a construction contract as defined in Section 3, subdivision C above.

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- E. "Contractor" or "subcontractor" shall mean a contractor or subcontractor that directly employs construction workers, as defined below, under a construction contract or construction subcontract, as defined herein, for which a New York State Certified Worker Training Program is required.
- F. "Construction worker" shall mean an individual directly involved in the construction, reconstruction, improvement, rehabilitation, installation, alteration, renovation, demolition or otherwise providing for any building, facility, roads, highways, bridges, or physical structure of any kind, but does not include professional services employees or those construction workers for which a New York State Certified Worker Training Program does not exist.

Section 4. Requirements.

- A. Any contractor, prior to entering into a construction contract as set forth in section 3 (C) above, or any subcontractor entering into a construction subcontract with a contractor who has a construction contract with the County of Erie is required to have in place and provide written proof of same at the time of bid a New York State Certified Worker Training Program, either internally to the contractor or subcontractor and/or through an organization servicing several contractors or subcontractors, appropriate for the type and scope of work to be performed.
- B. Any contractor or subcontractor, as defined herein, shall strive to meet the minimum workforce development and diversification goals set forth in section 3(A) (iv) above. Such contractors and/or subcontractors shall provide the Commissioner or designated compliance officer with the following:
 - i. A monthly workforce census and such other employment and/or payroll records necessary to verify an attempt to achieve the workforce development and diversification goals set forth in Section 3(A)(iv) above.
 - ii. Access to and cooperation with the project compliance officer to review records on-site and/or at worksite premises to validate attempts to achieve the workforce development and diversification goals set forth in Section 3(A)(iv) above.
 - iii. With bid submission, a statement committing to providing apprenticeship training opportunities to workers, as well as details of workforce diversification recruiting program directed at attracting candidates to fill positions to meet the minimum workforce development and diversification goals set forth in Section 3(A)(iv) above.

Section 5. Rules & Regulations.

As of the date this Local Law becomes effective, the Commissioner of the Erie County Department of Public Works shall promulgate such rules and regulations that are lawful, necessary and appropriate to implement, enforce or otherwise carry out the purposes of this Local Law, provided that the Legislature, by simple majority, has not voted to disapprove such rule or regulation within sixty (60) days from the Commissioner's written notice to the Legislature that such rule or regulation has been promulgated.

Section 6. Equal Employment Monitoring.

There shall be an Independent Monitor to report on the compliance of each County contractor and subcontractor with this Local Law's workforce development and diversification goals. The Commissioner of DPW shall develop regulations that provide for the compensation of the Independent Monitor.

The Monitor shall monitor and review every facet of construction to report what percentage of the goals that are established for minority and female participation are met or exceeded. The Monitor shall report to the Equal Employment Opportunity Office on the compliance of each contractor and subcontractor with the workforce development and diversification goals.

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OFFICE OF THE COMMISSIONER**

The Monitor shall file monthly reports with the Equal Employment Opportunity Office regarding the actual workforce development and diversification goals, including reporting all instances of non-compliance; make appropriate recommendations to the Equal Employment Opportunity Office when non-compliance is evident with supportive documentation; develop a database of the workforce of each contractor and subcontractor to provide a visual format of each contractor's workforce, both monthly and year-to-date cumulative totals on each construction contract.

Section 7. Compliance.

The Director of Erie County Division of Equal Employment shall ensure that all contractors and subcontractors entering into a construction contract as it is defined herein, maintain records which prove that each construction worker as it is defined herein, signs in and out at the beginning and end of each day, listing next to his or her name his or her craft, and status as journeyman or apprentice, if applicable.

Section 8. Penalties.

Violation of any provision of this Local Law shall constitute cause, grounds or other legal justification for termination of any contractual agreement with any contractor or subcontractor engaged in a construction contract or construction subcontract with the County, in accordance with County and state laws, rules and regulations governing the termination of such contractual agreements.

Section 9. Severability.

If any clause, sentence, paragraph, subdivision, section or part of this Local Law or the application thereof, to any person, individual, corporation, firm, partnership, entity or circumstance, shall be adjudged by any court of competent jurisdiction to be invalid or unconstitutional such order of judgment shall not affect, impair, or invalidate the remainder thereof, but shall be confined in its operation to the clause, sentence, paragraph, subdivision, section or part of this Local Law or in its application to the person, individual, corporation, firm, partnership, entity, or circumstance directly involved in the controversy in which such judgment or order shall be rendered.

Section 10. Applicability.

This Local Law shall apply to construction contracts advertised for bids on or after the effective date with the following condition:

Apprenticeship agreements currently in place as of the effective date of this Local Law which are still in probationary status or apprenticeship agreements which were in probationary status during the period preceding the specific trade's program length as set forth in the New York State Prevailing Wage Schedule, shall be exempt from the 30% apprenticeship graduation requirement specified in Section 3 (A) (vi) for the period measured from the date the apprenticeship program is registered with the New York State Department of Labor plus the specific trade's program length plus two years.

Section 11. Effective Dates.

This Local Law shall take effect 30 days after the filing with the Secretary of State, in accordance with Section 27 of the New York State Municipal Home Rule Law.

SPONSORS: PATRICK BURKE
APRIL N.M. BASKIN
JOHN BRUSSO

10.02 Rules and Regulations Adopted by the Erie County Commissioner of Public Works Regarding Local Law No. 3-2018

**RULES AND REGULATIONS ADOPTED BY THE
ERIE COUNTY COMMISSIONER OF PUBLIC WORKS
REGARDING:
COUNTY OF ERIE
LOCAL LAW NO. 3-2018**

A LOCAL LAW in relation to a requirement for New York State Certified Worker Training Programs by contractors and subcontractors under construction contracts, as defined herein, with the County of Erie.

Pursuant to Section 5 of Erie County Local Law No. 3-2018, "the Commissioner of the Erie County Department of Public Works shall promulgate such rules and regulations that are lawful, necessary and appropriate to implement, enforce or otherwise carry out the purposes of this Local Law..." Such rules and regulations are as follows:

1. Definitions.

"Bidders" – an individual or entity which submits a formal Bid for a Construction Contract, as hereinafter defined.

"Bids" – formal bids submitted for a Construction Contract, as hereinafter defined, in accordance with New York General Municipal Law.

"Commissioner" – Erie County Commissioner of Public Works

"Construction Contract" – a contract for a Project which includes more than an incidental amount of construction-type activity performed by persons in trades or careers for which there exists an NYSCATP, as hereinafter defined.

"Contracting Agency" – a department, division, board, agency or office of the County, an entity undertaking a Project that Erie County funds indirectly, or an entity undertaking a Project with the specific intent of leasing the completed Project to the County, which solicits and receives Bids for a Construction Contract.

"Local Law" – Erie County Local Law 3-2018

"Monitoring Agency" – the Erie County Equal Employment Opportunity Office

"New York State Certified Apprentice Training Program" or "NYSCATP" - a state registered and regulated apprenticeship program(s) approved by the Commissioner of the New York State Department of Labor in accordance with Article 23 of the Labor Law and the Rules and Regulations thereto.

"Prime Contractor" – the party with whom the Contracting Agency contracts with on a Project.

"Project" – the construction, reconstruction, improvement, rehabilitation, installation, alteration, renovation, demolition or otherwise of any building, facility, roads, highways, bridges, or physical structure of any kind, estimated by the Contracting Agency as having a cost to complete in excess of \$250,000, for which the County is a direct or indirect party to a Construction Contract. Projects include those: that Erie County funds directly, either in whole or in part; that Erie County funds indirectly, either in whole or in part, by providing funds to a separate entity to perform the construction-type activity; privately financed construction projects specifically built with the intent of leasing the completed project to Erie County; and construction projects built under Erie County's direction and later paid for with Erie County funds.

"Rules" – these rules and regulations promulgated by the Commissioner pursuant to the Local Law.

"Subcontractor" – A subcontractor to a Prime Contractor.

“Workforce” – the total worker hours anticipated on the Construction Contract to be undertaken by workers in careers or trades for which there exists an NYSCATP.

2. Rules and Regulations.

- A. Each Contracting Agency shall include in its bid specifications provisions for the implementation of the Local Law and these Rules. Bids shall demonstrate a Bidder's ability to comply with the Local Law and these Rules and in the event that Bidder is a successful Prime Contractor on a Construction Contract.
- B. Bidder shall submit as part of the Bid a copy of the certification of approval of the NYSCATP by the New York State Department of Labor which will be used by the Bidder in connection with the Construction Contract. Such NYSCATP shall be a NYSCATP registered by the NYS Commissioner of Labor which will be utilized by the Bidder on the Construction Contract by the Bidder as a Prime Contractor or by the Bidder's Subcontractor(s).
- C. As part of its' Bid, Bidder shall provide a written plan demonstrating how apprentices will be utilized by the Bidder as Prime Contractor or by Subcontractor(s) to the Bidder as Prime Contractor. Such plan shall include at a minimum, but not be limited to the following:
 - i. An organized, written plan in place that embodies the terms and conditions of employment, training and supervision of one or more apprentices;
 - ii. A schedule of wages to be paid to the apprentices consistent with the skills required and approved by the New York State Department of Labor;
 - iii. Equal employment opportunity and affirmative action plans.
 - iv. Demonstration that ten percent (10%) of the Workforce of the Prime Contractor (inclusive of the workforce utilized by any Subcontractor(s) to the Bidder) shall consist of persons participating in New York State Certified Apprentice Training Programs.
- D. In the alternative Bidder may provide a statement as to the inapplicability of apprenticeship participation on the Prime Contract and the related subcontracts due to the lack of career opportunities in NYSCATP approved by New York State Department of Labor Commissioner or that the magnitude of the Construction Contract would make use of apprentices impracticable. In the event that Bidder provides a statement that there is a lack of such career opportunities or the use of apprentices on the Construction Contract is impracticable, said Bidder may not be deemed non-responsive by virtue of the submission of such a statement, as determined by the Monitoring Agency. Applicability of this section will be viewed within the total Workforce of each Prime Contract and not as a function of each subcontract of the Construction Contract as a whole.
- E. As part of its' Bid, Bidder shall provide affirmation of its commitment toward acceptable achievement or progress towards the County of Erie workforce development and diversification goal in all construction contracts of thirty percent (30%) minority and female participation combined in project personnel including trades people, trainees, journeymen, apprentices and supervisory staff.
- F. Contracting Agency may determine prior to the advertisement of bids for the Project or prior to the award of Bids that the nature of the Construction Contract does not provide an adequate opportunity for the use of NYSCATP for such reasons including, but not limited to, that:
 - i. 75% or more of the value of the Construction Contract involves material, equipment and/or supplies;
or

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- ii. There is a lack of NYSCATP approved by the Department of Labor for at least 75% of the work hours anticipated to be spent on construction-type activity involved in the Construction Contract; or
 - iii. The Construction Contract is in response to an emergency condition; or
 - iv. The Project is estimated to cost less than \$250,000 or the Bid amount is less than \$250,000; or
 - v. None of the bids received were from Bidders who had an NYSTACP.
- G. All Bids shall be reviewed by the Monitoring Agency within 10 business days of delivery of the Bids by the Contracting Agency to the Monitoring Agency. A Contracting Agency shall not reject any Bid as being non-responsive to the requirements of the Local Law and these Rules, unless the Monitoring Agency, within 10 business days of receipt of Bids from the Contracting Agency, provides the Contracting Agency with a written report recommending non-responsiveness of the Bidder and the reasons therefore. Determination of a Bidder's compliance with the Local Law and these Rules shall be the responsibility of the Monitoring Agency.
- H. The Contracting Agency is permitted to require within the Bid specifications for a Project, a reasonable fee for the Prime Contractor to hire an independent monitor to review and report on the diversification goals of the Local Law

3. Effect

These Rules and Regulations shall become effective immediately. No Rule or Regulation promulgated herein shall be disapproved by the Erie County Legislature unless and until such time as the public, following 10 days advertised notice, is given the opportunity to comment upon such rule or regulation.

APPENDIX "A"

EQUAL EMPLOYMENT OPPORTUNITY FORMS

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

BID DATE: _____
TODAY'S DATE: _____

**ERIE COUNTY MINORITY/WOMEN BUSINESS ENTERPRISE
UTILIZATION REPORT – PART A**

COMPANY: _____
 AUTHORIZED REPRESENTATIVE: _____
 ADDRESS: _____
 TELEPHONE NUMBER: _____
 PROJECT NAME: _____
 PROJECT NUMBER: _____

A. List actions taken to identify, solicit, and contact Minority Business Enterprise (MBE) & Women Business Enterprise (WBE) to bid on subcontracts for this project.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

II. List all bona-fide Minority/ Women Business Enterprise, sub-contractors, suppliers, professional personnel, solicited, contracted, or presently negotiating a contract in accordance with the minority business utilization goal set forth by the County of Erie.

MBE/WBE OWNED FIRMS	SUPPLY/ SERVICE	AMOUNT OF PROPOSAL	PRIOR CERTIFICATION	CONTRACT EXECUTED	REASON IF CONTRACT NOT AWARDED
NAME _____				YES _____	
ADDRESS _____					
CITY, STATE _____					
TELEPHONE _____				NO _____	
IRS # _____					

MBE/WBE OWNED FIRMS	SUPPLY/ SERVICE	AMOUNT OF PROPOSAL	PRIOR CERTIFICATION	CONTRACT EXECUTED	REASON IF CONTRACT NOT AWARDED
NAME _____				YES _____	
ADDRESS _____					
CITY, STATE _____					
TELEPHONE _____				NO _____	
IRS # _____					

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MBE/WBE OWNED FIRMS	SUPPLY/ SERVICE	AMOUNT OF PROPOSAL	PRIOR CERTIFICATION	CONTRACT EXECUTED	REASON IF CONTRACT NOT AWARDED
NAME _____				YES _____	
ADDRESS _____					
CITY, STATE _____					
TELEPHONE _____				NO _____	
IRS # _____					

MBE/WBE OWNED FIRMS	SUPPLY/ SERVICE	AMOUNT OF PROPOSAL	PRIOR CERTIFICATION	CONTRACT EXECUTED	REASON IF CONTRACT NOT AWARDED
NAME _____				YES _____	
ADDRESS _____					
CITY, STATE _____					
TELEPHONE _____				NO _____	
IRS # _____					

MBE/WBE OWNED FIRMS	SUPPLY/ SERVICE	AMOUNT OF PROPOSAL	PRIOR CERTIFICATION	CONTRACT EXECUTED	REASON IF CONTRACT NOT AWARDED
NAME _____				YES _____	
ADDRESS _____					
CITY, STATE _____					
TELEPHONE _____				NO _____	
IRS # _____					

III. Assistance offered by contractor to MBE's/WBE's as to bonding, union requirements obtaining work capital, etc.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

- IV. Total Dollar Amount to be subcontracted to:
- Minority Business Enterprise(s) \$ _____
- Women Business Enterprise(s). (If applicable) \$ _____
- _____
- V. Total Amount of Bid: \$ _____
- _____
- VI. MBE Percent (%) of project bid: _____ %
- WBE Percent (%) of project bid: _____ %

VII. YOU MUST ATTACH COPIES OF RELEVANT CORRESPONDENCE AND DOCUMENTS, INCLUDING RETURN RECEIPTS.

SIGNATURE OF AUTHORIZED REPRESENTATIVE _____
DATE

VIII. CONTRACTOR'S DESIGNATED EQUAL OPPORTUNITY OFFICER (EEO)

NAME _____
DATE

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

**COUNTY OF ERIE
MINORITY/WOMEN BUSINESS ENTERPRISE UTILIZATION REPORT PART - B**

Certificate of Expenditures at 30% Completion of Project

Contractor: _____ Contract Name: _____

- I. List all bona-fide minority/women business enterprises, subcontractors, suppliers, professional personnel, or joint venture firms, with whom you have entered into a binding agreement in accordance with the Minority/Women Business Utilization Goal set forth by the County of Erie. Include minority trucking firms that will be utilized and include an estimated dollar amount. The information must be submitted to the County of Erie when the project is 30% complete.

MBE/WBE OWNED FIRMS (USE REVERSE SIDE IF MORE SPACE IS NEEDED)		TYPE OF WORK	DATE CONTRACT EXECUTED	TOTAL EXPENDED TO DATE	ESTIMATED AMOUNT REMAINING
NAME					
ADDRESS					
CITY, STATE					
TELEPHONE					
MBE WBE					
IRS #					

MBE/WBE OWNED FIRMS (USE REVERSE SIDE IF MORE SPACE IS NEEDED)		TYPE OF WORK	DATE CONTRACT EXECUTED	TOTAL EXPENDED TO DATE	ESTIMATED AMOUNT REMAINING
NAME					
ADDRESS					
CITY, STATE					
TELEPHONE					
MBE WBE					
IRS #					

Erie County reserves the right to require documentation including, but not limited to, cancelled checks to verify these amounts.

- II. Total Dollar Amount to be subcontracted to:
- Minority Business Enterprise(s). \$ _____
- Women Business Enterprise(s). (If applicable) \$ _____
- III. Total Amount Expended to Date: \$ _____
- IV. Total Amount of Bid: \$ _____

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

V. MBE Percent (%) of project bid: _____ %
WBE Percent (%) of project bid: _____ %
_____ %

I, _____

as an official representative of _____

do hereby certify that the information listed above is correct and complete.

NAME

DATE

TITLE

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

MINORITY / WOMEN BUSINESS ENTERPRISE UTILIZATION REPORT – PART C
CERTIFICATION OF EXPENDITURES TO MBEs / WBEs

(To Be Completed by the Prime Contractor and submitted at the 75% payment level.)

Contractor: _____ Contract Name: _____

MBE / WBE	PART B CONTRACT AMOUNT OR ESTIMATE	TOTAL EXPENDED TO DATE	ESTIMATED AMOUNT REMAINING
MBE's			
WBE's			

Erie County reserves the right to require documentation, including, but not limited to, cancelled checks to verify these amounts.

I, _____
as an official representative of _____

do hereby certify that the information listed above is correct and complete.

NAME

DATE

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

MINORITY BUSINESS ENTERPRISE UTILIZATION REPORT – PART D
FINAL CERTIFICATION OF EXPENDITURE TO MBE'S / WBE'S

(To be completed by the prime contractor and submitted when contract is complete)

Erie County reserves the right to require documentation, including, but not limited to, cancelled checks to verify these amounts.

Contractor: _____ Contract Name: _____

MBE	TOTAL AMOUNT EXPENDED
WBE	TOTAL AMOUNT EXPENDED

TOTAL OF ALL MBE SUBCONTRACTS	\$	
TOTAL OF ALL WOMEN SUBCONTRACTS (If applicable)	\$	
AMOUNT OF CONTRACT (PRIME)	\$	
FINAL MBE PERCENTAGE		%
FINAL WBE PERCENTAGE (If applicable)		%

I, _____
as an official representative of _____

do hereby certify that the information listed above is correct and complete.

NAME

DATE

COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER

AUTHORIZATION FOR RELEASE OF MBE INFORMATION

I, _____ as principal officer of:
_____ hereby authorize Erie County's representative to have access to:
_____ M.B.E. certification materials, filed with:
_____ File documents may be released to Erie County's representative to expedite the County's M.B.E. certification process for:

SIGNED

DATE

TITLE

"Sworn to before me

This _____ day of _____, 2011"

Notary Public / Commissioner of Deeds

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

ERIE COUNTY MINORITY/WOMEN BUSINESS ENTERPRISE - WAIVER

COMPANY: _____
PROJECT NAME: _____
PROJECT NUMBER: _____
ADDRESS: _____
TELEPHONE NUMBER: _____

1. Contractor has made a good faith effort to adopt subcontracting on this project to those trades, professions, suppliers, etc. for which minority/ women's business enterprise bids could be solicited; and
2. The total percentage of the bid which could be subcontracted in trades, professions, suppliers, etc. for which minority business enterprises bids could be solicited is less than 10% for MBE's and/or 2% WBE's.

A waiver provided for by Erie County Local Law, is hereby requested on the ground that there are no / insufficient (circle the appropriate term) minority / women's business enterprises in the market area of this project which do subcontracting in the following field (list all trades, professions, supplies, etc. which could be subcontracted on this project):

- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

(Use additional sheets if necessary.)

If a partial waiver is granted, the Contractor with make a good faith effort to meet the reduced goal.

DATE

SIGNATURE OF AUTHORIZED
REPRESENTATIVE OF COMPANY

Granted in Whole: _____
Granted in Part: _____

Comments: _____

EQUAL OPPORTUNITY OFFICIAL / TITLE

DATE

LETTING DEPARMENT REPRESENTATIVE / TITLE

DATE

APPENDIX "B"

**COUNTY OF ERIE – DEPARTMENT OF PUBLIC WORKS BUILDING PERMIT
APPLICATION AND INSURANCE REQUIREMENTS**

Exhibit 1B – Building Permit Application

Exhibit 2B – Contractor Insurance Requirements



Building Permit Application

ECDPW Building Permit No.

Part I: General Information

1. Project Location and Information

Project Name:
Name and Address:
Building Name:

2. Architect/Engineer (Prime)

Name:
Address:
City, State, Zip: Phone Number:

3. Contractor

Name:
Address:
City, State, Zip: Phone Number:

4. Type of Construction or Improvement

<input type="checkbox"/> New Building: Proposed use is			
<input type="checkbox"/> Conversion:	Current use is	Proposed use is	
<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration	<input type="checkbox"/> Repair/Replacement	<input type="checkbox"/> Relocation
<input type="checkbox"/> Demolition	<input type="checkbox"/> Sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Equipment
<input type="checkbox"/> Other (Describe)			

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

5. Use and Occupancy Classification

<input type="checkbox"/> Assembly Group A	<input type="checkbox"/> Business Group B	<input type="checkbox"/> Education Group E	<input type="checkbox"/> Factory Group F
<input type="checkbox"/> High-Hazard Group H	<input type="checkbox"/> Institutional Group I	<input type="checkbox"/> Mercantile Group M	<input type="checkbox"/> Residential Group R
<input type="checkbox"/> Storage Group S	<input type="checkbox"/> Utility Group U		

If Assembly, Factory, High-Hazard, Institutional, Residential or Storage indicate Group subcategory type (e.g. Assembly A4) and Describe:

6. Special Inspections Required (3rd Party) N/A

<input type="checkbox"/> Electrical	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Geotechnical
<input type="checkbox"/> Foundations	<input type="checkbox"/> Compaction	<input type="checkbox"/> Steel	<input type="checkbox"/> Equipment
<input type="checkbox"/> Asbestos	<input type="checkbox"/> Hazardous Materials	<input type="checkbox"/> Medical Specialties	<input type="checkbox"/> Other:
<input type="checkbox"/> Chapter 17 – Structural Tests and Special Inspections			

7. Dimensions of EXISTING Buildings:

Description:	Width:	Length:	Height:	No. of Stories:

8. Dimensions of NEW Buildings:

Description:	Width:	Length:	Height:	No. of Stories:

9. Lot Dimensions:

Description:	Width:	Length:	Height:	No. of Stories:

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

10. Description of Project: (If need additional space please attach sheets to application). For any mixed occupancy, specify in detail the nature and extent of each use.

11. Estimated Project Cost

Cost of the work to be performed, excluding land costs:
--

CONTINUE TO PART TWO: DO NOT WRITE BELOW THIS LINE – OFFICIAL USE ONLY

Date Received:	Received by:	Forwarded to (for review):
Additional Approvals needed:		
<input type="checkbox"/> Historic Preservation	<input type="checkbox"/> Environmental Impact Statement	<input type="checkbox"/> Engineering:
<input type="checkbox"/> Attorney:	<input type="checkbox"/> Other (explain):	<input type="checkbox"/> None

Part II: Not Used

Part III: Project Location and Details

1. This application must be accompanied by two complete sets of plans and specifications. Depicting the scope of the work to be performed.
2. Location of the proposed structure or addition showing the number of stories and all exterior dimensions.
3. The distance of the proposal from all lot lines and any structure including neighboring structures.
4. The depth of the proposed foundation or footers.
5. The maximum percentage of the lot to be covered by building(s).
6. The Water Supply is: Municipal Water Existing Well New Well
7. Site is: Within Flood Plain **Not** within Flood Plain
 Designated as a Wetland **Not** Designated as a Wetland

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

8. A drawing showing the existing conditions surrounding the project area. The drawing must include but not limited to adjacent: locations, exiting requirements, fire separations and functional areas, etc. Indicate with sufficient clarity and detail the nature and extent of the work proposed and its context. Failure to do so will interrupt the approval process until all the pertinent information is received.
9. Architectural and/or Engineered drawings are required. Drawings need to be prepared by a New York registered Architect or Licensed Professional Engineer. When the project floor area exceeds fifteen hundred (1,500) square feet and/or the project costs twenty thousand (\$20,000) dollars or more.

Part IV: Notices (Read before signing):

1. Work conducted pursuant to a building permit must be visually inspected by the Code Enforcement Official and must conform to the New York State Uniform Fire Prevention and Building Code, and all applicable local, County of Erie, state and federal: laws, codes, rules and regulations.
2. In the event that there are changes to the scope of work that has been approved on the building permit, the Erie County Department of Public Works, Office of the Commissioner **must be notified immediately** of the same.
3. Prior to the start of Demolition activities the potential for exposure to asbestos and any other hazardous materials must be identified. Accordingly, an abatement plan that complies with New York State Department of Labor rules must be implemented.
4. It is the owner's responsibility to contact the Erie County Department of Public Works, Office of the Commissioner at (716) 858-8301 (Monday through Friday from 8am to 4pm) at least **72** hours before the owner and/or contractor wishes to have an inspection conducted. Inspections will be performed by appointment only. More than one inspection may be necessary. This is especially true for "internal work" which will eventually be covered from visual inspection by additional work (i.e. electrical work later to be covered by a wall).

Part V: Inspections (Read before signing):

1. **PROVISIONS SHALL BE MADE FOR INSPECTION OF THE FOLLOWING ELEMENTS OF THE CONSTRUCTION PROCESS, WHERE APPLICABLE:**
 - a. Work site prior to the issuance of a permit
 - b. Fire rated construction
 - c. Footing and foundations
 - d. Fire rated penetrations
 - e. Preparation for concrete slab
 - f. Solid fuel burning heating appliances, chimneys, flues or gas vents
 - g. Framing
 - h. Energy code compliance

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

- i. Rough-in of all building systems, including but not limited to: Electrical, Plumbing, Gas or Fuel Piping, Security, HVAC, Temperature Controls, etc.
 - j. A final inspection after all work authorized by the building permit has been completed
2. DO NOT PROCEED TO THE NEXT STEP OF CONSTRUCTION IF SUCH "INTERNAL WORK" HAS NOT BEEN INSPECTED. Otherwise, work may need to be removed at the contractor's expense to conduct the interior inspection. Close coordination with the Erie County Department of Public Works, Office of the Commissioner will greatly reduce this possibility.
3. All permitted electrical work to be performed will be inspected by a certified independent third party having the prior approval of the Department of Public Works. Such inspections shall be paid for by the Contractor.
4. Owner hereby agrees to allow the Erie County Department of Public Works, Office of the Commissioner to inspect the sufficiency of the work being done pursuant to this permit, provided however, that such inspection(s) is (are) limited to the work being conducted pursuant to this permit and any other non work related violations which are readily discernible from such inspection(s).
5. New York State law requires contractors to maintain Worker's compensation and Disability Insurance for their employees. The contractor, as part of their Building Permit Application, shall submit copies of their NYS Workmen's Compensation and NYS Worker's Disability Insurance Certificates on the prescribed New York State forms. The County also requires Certificates of Insurance as limited on the attached Schedule for Contractors performing work on County property whether contracted by the County or third party. Please use the attached Standard Insurance Certificate with the "County of Erie, 95 Franklin St, Buffalo, NY 14202" listed as Certificate Holder.
6. All drawings and specifications submitted with a Building Permit Application for a Building Permit shall bear the seal and signature of a NYS Registered Design Professional per the requirements of NYS law. Building Permit Applications submitted without the seal and signature of a registered NYS Design Professional will be returned as incomplete.
7. If a Certificate of Occupancy is required, the structure shall not be occupied until said certificate has been issued.
8. Work undertaken pursuant to this permit is conditioned upon and subject to any State and Federal regulations relating to Asbestos Material and any other Hazardous Material.
9. This permit does not include any privilege of encroachment in, over, under, or upon any city street or right-of-way.
10. The building permit card must be displayed so as to be visible from the street nearest to the site of the work being conducted.

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

I, _____, the above named applicant, hereby attest that I am the contractor for the above referenced project and affirm under the penalty of perjury that all statements made by me on this application are true.

(Contractor Signature)

Date:

Please Return Completed Application to:

**Erie County
Department of Public Works
95 Franklin Street, Room 1400
Buffalo, NY 14202**

DO NOT WRITE BELOW THIS LINE – OFFICIAL USE ONLY

Application Approved

Date:

Permit Number:

Permit issued by:

Date:

CERTIFICATE OF OCCUPANCY OR COMPLIANCE MUST BE OBTAINED BEFORE OCCUPANCY USE.

Certificate of Occupancy or Use by:

Date:

Application Denied by:

Date:

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

INSTRUCTIONS FOR COUNTY OF ERIE STANDARD INSURANCE CERTIFICATE

- I Insurance shall be procured and certificates delivered before commencement of work or delivery of merchandise or equipment.
- II CERTIFICATES OF INSURANCE
 - A Shall be made to the "County of Erie, 95 Franklin St, Buffalo NY, 14202"
 - B. Coverage must comply with all specifications of the contract.
 - C. Must be executed by an insurance company, agency or broker, which is licensed by the Insurance Department of the State of New York. If executed by a broker, notarized copy of authorization to bind or certify coverage must be attached.
- III Forward the completed certificate to: County of Erie, (Department or Division) responsible for entering into the agreement for construction, purchase, lease or service.
- IV Minimum coverage with limits are as follows:

Vendor Classification	A Construction and Maintenance	B Purchase or Lease of Merchandise or Equipment	C Professional Services	D Property Leased To Others Or Use Of Facilities Or Grounds	E Concessionaires Services	F Livery Services	G All Purposes Public Entity Contracts
Commercial Gen Liab.	\$1,000,000 per occ.	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000	\$1,000,000 CSL	\$1,000,000	\$1,000,000 CSL
General Aggregate	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Products Completed Operations Liability	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Blanket Broad Form Contractual Liability	INCLUDE						
Contractual Liability		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Broad Form P.D.	INCLUDE						
X.C.U. (explosion, collapse, Underground)	INCLUDE						
Liquor Law				INCLUDE	INCLUDE		
Auto Liab.	\$1,000,000 CSL		\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL
Owned	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Hired	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Non-Owned	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Excess/Umbrella Liab.	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000	\$1,000,000
Worker's Compensation & Employer's Liability	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY
Disability Benefits	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY
Professional Liability			\$5,000,000				
Erie County, To Be Named Add'l Insd.	Gen. Liab., Auto Liab., & Excess	Broad Form Vendors May Be Required	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess

- V. Construction contracts require excess Umbrella Liability limits of \$5,000,000.
- VI Coverage must be provided on a primary-non contributory bases.
- VII. Designated Construction Project General Aggregate Limit Per Project Endorsement CG 25 03 is required.
In the event the concessionaire is required to have a N.Y.S. license to dispense alcoholic beverages an endorsement for liquor liability is VIII required.
- IX. Waiver of Subrogation: Required on all lines unless noted
- X Transportation of people in buses, vans or station wagons requires \$5,000,000 excess liability.
- XI. Workers Compensation: State Workers' Compensation / Disability Benefits Law
Use Applicable Certificates Below

Workers Compensation Forms

CE-200	Exemption
C105.2	Commercial Insurer
SI-12	Self Insurer
GSI-105.2	Group Self Insured
U-26.3	New York State Insurance Fund

DBL (Disability Benefits Law) Forms

CE-200	Exemption
DB-120.1	Insurers
DB-155	Self Insured

- XII. The "ACORD" form certificate may be used in place of the County of Erie Standard Insurance Certificate, provided that all of the above referenced requirements are incorporated into the "ACORD" form certificate

NOTE: AN INCOMPLETE APPLICATION MAY DELAY THE TIMELY ISSUANCE OF YOUR PERMIT; PLEASE ENTER N/A IF A SECTION IS NOT APPLICABLE

INSTRUCTIONS FOR COUNTY OF ERIE STANDARD INSURANCE CERTIFICATE

I. Insurance shall be procured and certificates delivered before commencement of work or delivery of merchandise or equipment.

II. CERTIFICATES OF INSURANCE

A. Shall be made to the "County of Erie, 95 Franklin St, Buffalo NY, 14202"

B. Coverage must comply with all specifications of the contract.

C. Must be executed by an insurance company, agency or broker, which is licensed by the Insurance Department of the State of New York. If executed by a broker, notarized copy of authorization to bind or certify coverage must be attached.

III. Forward the completed certificate to: County of Erie, (Department or Division) responsible for entering into the agreement for construction, purchase, lease or service.

IV. Minimum coverage with limits are as follows:

Vendor Classification	A Construction and Maintenance	B Purchase or Lease of Merchandise or Equipment	C Professional Services	D Property Leased To Others Or Use Of Facilities Or Grounds	E Concessionaires Services	F Livery Services	G All Purposes Public Entity Contracts
Commercial Gen. Liab.	\$1,000,000 per occ.	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000	\$1,000,000 CSL	\$1,000,000	\$1,000,000 CSL
General Aggregate	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Products Completed Operations Liability	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Blanket Broad Form Contractual Liability	INCLUDE						
Contractual Liability		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Broad Form P.D.	INCLUDE						
X.C.U. (explosion, collapse, Underground)	INCLUDE						
Liquor Law				INCLUDE	INCLUDE		
Auto Liab.	\$1,000,000 CSL		\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL	\$1,000,000 CSL
Owned	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Hired	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Non-Owned	INCLUDE		INCLUDE	INCLUDE	INCLUDE	INCLUDE	INCLUDE
Excess/Umbrella Liab.	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000	\$1,000,000
Worker's Compensation & Employer's Liability	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY
Disability Benefits	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY	STATUTORY
Professional Liability			\$5,000,000				
Erie County, To Be Named Add'l Insd.	Gen. Liab., Auto Liab., & Excess	Broad Form Vendors May Be Required	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess	Gen. Liab., Auto Liab., & Excess

V. Construction contracts require excess Umbrella Liability limits of \$5,000,000.

VI Coverage must be provided on a primary-non contributory bases.

VII. Designated Construction Project General Aggregate Limit Per Project Endorsement CG 25 03 is required.

In the event the concessionaire is required to have a N.Y.S. license to dispense alcoholic beverages an endorsement for liquor liability is VIII. required.

IX. Waiver of Subrogation: Required on all lines unless noted

X Transportation of people in buses, vans or station wagons requires \$5,000,000 excess liability.

XI. Workers Compensation: State Workers' Compensation / Disability Benefits Law

Use Applicable Certificates Below:

Workers Compensation Forms

DBL (Disability Benefits Law) Forms

CE-200	Exemption
C105.2	Commercial Insurer
SI-12	Self Insurer
GSI-105.2	Group Self Insured
U-26.3	New York State Insurance Fund

CE-200	Exemption
DB-120.1	Insurers
DB-155	Self Insured

XII. The "ACORD" form certificate may be used in place of the County of Erie Standard Insurance Certificate, provided that all of the above referenced requirements are incorporated into the "ACORD" form certificate.

APPENDIX "C"

**COUNTY OF ERIE – EXECUTIVE ORDER NO.13 – PAY EQUITY CERTIFICATION ON
COUNTY CONTRACTS**

Executive Order #13

Pay Equity Certification on County Contracts

WHEREAS, federal law, including the Equal Pay Act of 1963, Title VII of the Civil Rights Act of 1964 and Federal Executive Order 11246 of September 24, 1965 (Equal Employment Opportunity) (together “Federal Equal Pay Law”), requires that men and women in the same workplace be given equal pay for equal work; and

WHEREAS, Section 194 of New York State Labor Law (“NYS Equal Pay Law”) prohibits compensating men and women differently for the same work; and

WHEREAS, on average, a full-time working woman in New York State earns just 85 cents for every dollar that a man earns and the pay gap is even greater for African-American and Latina women; and

WHEREAS, females make up nearly fifty-two percent of Erie County’s population; and

WHEREAS, women make up nearly half of the U.S. labor force and are a growing number of breadwinners in their families; and

WHEREAS, this pay differential shortchanges women and their families by thousands of dollars a year, and potentially hundreds of thousands of dollars over a lifetime, presenting a lifelong threat to those families’ economic security and reducing their earnings through Social Security and other post retirement plans; and

WHEREAS, poverty is recognized as a leading cause of or contributing factor to many social problems, including but not limited to substance abuse, domestic violence, child abuse, improper nutrition, obesity, improper health care and criminal conduct; and

WHEREAS, the impact of pay differentials is exacerbated as workers age, causing underpaid workers to disproportionately rely upon various forms of public support in their retirement years; and

WHEREAS, pay inequity can significantly impact the County, necessitating the provision of various public subsidies for low income residents and leading to the lack of receipt of income by women residents which would be spent in our local economy; and

WHEREAS, through the enforcement of current state and federal laws that ban unequal pay for equal work, Erie County can help ameliorate the many negative consequences of pay inequality, thereby improving the lives of those who might otherwise be underpaid, strengthening

families and protecting children, and reducing the demand for public services, all positively impacting county, state and federal budgets.

NOW, THEREFORE, I MARK C. POLONCARZ, Erie County Executive, by virtue of the authority vested in me by the Erie County Charter § 302, do hereby order as follows:

1. It is ordered that on and after January 1, 2015, all Erie County offices, departments and administrative units, including but not limited to the Division of Purchase, fully implement a requirement in all bids, requests for proposals and other contract solicitations that the contractor submit an Erie County Equal Pay Certification which certifies the contractor's compliance with Federal Equal Pay Law and New York State Equal Pay Law (together, the "Equal Pay Laws"). Such certification shall be required prior to execution of the contract; and it is,

2. Further ordered that such certification shall include a representation by the contractor that it has not been the subject of an adverse finding under the Equal Pay Laws within the previous five years and shall include disclosure of any currently pending claims against the contractor; and it is,

3. Further ordered that violation of any provision of the Equal Pay Laws during the effective period of such a contract or the filing of a false or misleading Erie County Equal Pay Certificate may constitute grounds for immediate termination of such a contract; and it is,

4. Further ordered that violation of any provision of the Equal Pay Laws during the effective period of such a contract or the filing of a false or misleading Erie County Equal Pay Certificate may constitute grounds for determining a bidder or responder is not qualified to participate in future County contracts; and it is,

5. Further ordered that the Law Department prepare an Erie County Equal Pay Certification for use by Erie County offices, departments and administrative units and assure compliance with this Executive Order in the contract approval process; and it is,

6. Further ordered that the County Division of Equal Employment Opportunity ("EEO") establish a procedure for compliance monitoring and periodic auditing of certification records; and it is,

GIVEN, under my hand and the Privy Seal of the County of Erie in the City of Buffalo this 29th day of October, in the year two thousand fourteen.

COUNTY OF ERIE

BY: _____
MARK C. POLONCARZ
ERIE COUNTY EXECUTIVE

APPENDIX "D"

**COUNTY OF ERIE – EXECUTIVE ORDER NO. 18 – FIRST SOURCE HIRING POLICY
FOR COUNTY CONSTRUCTION PROJECTS**

Exhibit 1 - Executive Order # 18 Policy

Exhibit 2 - Executive Order # 18 Rules and Regulations

Exhibit 3 – Executive Order # 18 Monitoring and Reporting Requirements

Exhibit 4 – List of First Source Zip Codes



Executive Order #018
Erie County Construction Project Bid Documents Shall Include
Local and Disadvantaged Worker Requirements

Whereas, Erie County annually appropriates over \$25,000,000 in tax dollars for expenditures related to public works construction projects;

Whereas, Erie County awards contracts to private firms to provide the construction services associated with budgeted projects;

Whereas, while unemployment in Erie County as a whole is comparable to other metropolitan regions in the United States, the unemployment rate within certain zip codes located in Erie County is as high as 21.7% and the poverty rate as high as 44.7%;

Whereas, there are 182,200 working age individuals in the region who are either unemployed or underemployed and seeking work;

Whereas, low-income or otherwise disadvantaged individuals residing in Erie County experience higher rates of unemployment compared to other individuals;

Whereas, the purpose of this order is to foster construction employment opportunities for qualified local residents, underemployed individuals or otherwise disadvantaged workers on those construction projects located within the geographic boundaries of Erie County which are bid by the County of Erie ("Erie County construction project(s)").

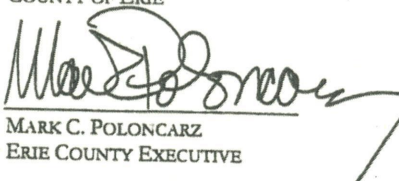
Now, Therefore, I, Mark C. Poloncarz, Erie County Executive, by virtue of the authority vested in me by Erie County's Charter Sections 301 and 302, do hereby order as follows:

1. It is ordered that on and after April 30, 2018, all bids for Erie County construction projects initiating out of the Erie County Department of Environment and Planning Division of Sewerage Management and on and after October 1, 2017, all other bids for Erie County construction projects wherever so initiated, and all associated contracts involving an expenditure of \$250,000 or greater which utilize not less than three workers to complete the project shall require that:
 - a) Entirely 100% of work hours performed by residents of New York State on an Erie County construction project will be worked by residents of the Local Labor Area (Erie County, Niagara County, Chautauqua County, Cattaraugus County, Allegany County, Wyoming County, Genesee County, Orleans County).
 - b) At least 70% of total work hours performed by residents of New York State on an Erie County construction project will be worked by residents of the County of Erie.
 - c) For the remainder of the calendar year subsequent to the effective date of this Order as specified above in Section 1, and for the entirety of the calendar year that follows, at least 20% of total work hours performed by residents of New York State, which percentage may be wholly or partly included within the hourly requirement contained in sub-section (b) above, used on an Erie County construction project will be worked by residents of Erie County who reside in zip codes with a poverty rate of 20% or higher, and/or, in any ratio, disadvantaged workers who

reside in Erie County. A disadvantaged worker is a resident who has a household income below 50% of the Area Median Income ("AMI"); or has been released from prison within the last 10 years; or participates in the Temporary Assistance for Needy Families program; or participates in the Supplemental Nutrition Assistance Program; or has been unemployed for at least 12 consecutive months.

- d) On the first day of the second full calendar year from such effective date and continuing thereafter, the applicable percentage of total work hours performed referenced in this subsection above will move upward from 20% to 30%. The applicable zip codes as referenced above will be determined annually by the Erie County Division of Equal Employment Opportunity and will be provided to potential contractors in all request for bids documents; and
2. It is further ordered that work hours performed by individuals residing outside of New York State will not be included in the requirements set forth above; and
3. It is further ordered that where an Erie County construction project is funded in whole or in part with Federal Highway Administration monies, those projects are exempt from the requirements specified above to avoid conflict with federal law or regulation; and
4. It is further ordered that failure to adhere to the requirements herein, as further delineated in all formal construction contracts and any rules and regulations promulgated pursuant to Section 5 below, will constitute grounds for immediate termination of the underlying contract and will further result in the Contractor being deemed a non-responsible bidder for a period of twelve months. Once grounds for immediate termination are established, actual contract termination will be at the discretion of Erie County; and
5. It is further ordered that the Erie County Department of Law must promulgate, and update annually where necessary, separate formal rules and regulations with respect to implementation of the requirements contained herein as applied respectively and distinctly to Erie County construction projects initiating out of the Erie County Department of Environment and Planning Division of Sewerage Management and to Erie County construction projects wherever else so initiated. The Erie County Department of Law must also assure compliance with this Executive Order within the contract approval process; and
6. It is further ordered that the Erie County Division of Equal Employment Opportunity establish a procedure for compliance monitoring and periodic auditing of construction contractor hiring rates.

Given, under my hand and the Privy Seal of the County of Erie in the City of Buffalo this twenty seventh day of September, in the year two thousand seventeen.

COUNTY OF ERIE
BY: 
MARK C. POLONCARZ
ERIE COUNTY EXECUTIVE

**RULES AND REGULATIONS IMPLEMENTING
ERIE COUNTY EXECUTIVE MARK C. POLONCARZ ORDER #18**

PURPOSE

The Erie County Attorney's Office promulgates these Rules and Regulations pursuant to Section 5 of Erie County Executive Mark C. Poloncarz Order #18 dated September 27, 2017 ("EO #18"). These Rules and Regulations are intended to articulate guidelines for implementing the provisions of EO #18 as they relate to those Erie County construction projects.

DEFINITIONS

1. **ERIE COUNTY CONSTRUCTION PROJECT** shall mean construction projects bid by Erie County and located within the geographic boundaries of Erie County which involve an expenditure of \$250,000 or more and which utilize not less than three construction workers to complete the project.
2. **CONSTRUCTION SUBCONTRACT** shall mean any subcontract entered into by a contractor working on an Erie County Construction Project which, by its terms, engages such subcontractor to provide work hours on an Erie County Construction Project.
3. **CONTRACTOR OR SUBCONTRACTOR** shall mean a contractor or subcontractor that directly employs construction workers who provide work hours on an Erie County Construction Project.
4. **CONSTRUCTION WORKER** shall mean a laborer, workman or mechanic who resides in the local labor area (Erie County, Niagara County, Chautauqua County, Cattaraugus County, Allegany County, Wyoming County, Genesee County, Orleans County) and is directly involved in the construction, reconstruction, improvement, rehabilitation, installation, alteration, renovation, demolition or otherwise providing for any building, facility, roads, highways, bridges, or physical structure of any kind, but does not include professional services employees.

APPLICATION

All Erie County Construction Projects ("Project" or "Projects") as defined above are subject to the provisions of EO #18. The Commissioner or his/her Designee or the Division Head or his/her Designee of the Erie County Department or Division who solicits a bid for an Erie County Construction project ("the Commissioner") must, with the aid of the County Attorney when necessary, determine on a case by case basis the applicability of EO #18 to a given project. In order for a project to be subject to EO #18, the Commissioner must make the following findings:

1. **Location:** The Commissioner must find that work on a project will take place solely within the geographic boundaries of Erie County.

2. **Monetary Threshold:** The Commissioner must find that the cost of a project meets or exceeds \$250,000. In determining whether a project meets the expenditure threshold of \$250,000, the Commissioner shall calculate the total cost of the project based on the successful bidder's final bid submission. A project previously exempt because it did not meet the monetary threshold of \$250,000 may become subject to EO #18 because an amendment, modification, renewal, or extension increases the total cost of the project. In that case, the Commissioner will have the authority to unilaterally amend the project contract(s) to include the standard EO #18 contract language and certification specifically delineated below.
3. **Work Force Threshold:** The Commissioner must find that no less than three construction workers will be utilized by contractor and/or subcontractor for the completion of the project. In determining whether a project utilizes at least three construction workers to complete the Project, the Commissioner shall rely on the statement of work force contained within the attestation required by the mandatory request for bid language specifically delineated below. A project previously exempt because it did not meet the work force threshold may become subject to EO #18 because of an increase in work force during the course of work on the project. In that case, the Commissioner shall have the authority to unilaterally amend the project contract(s) to include the standard EO #18 contract language and certification specifically delineated below.

REQUEST FOR BID LANGUAGE

The Commissioner shall include the following language in all construction project Requests for Bids.

ERIE COUNTY EXECUTIVE ORDER #18: The project contemplated by this Request for Bids may be subject to Erie County Executive Order #18 which is attached hereto along with its Rules and Regulations for reference as Exhibit _____. The Erie County Department or Division letting the contract will advise the successful bidder if it must comply with Executive Order #18 at the time of award. All bids must include a verified attestation of intent to comply and statement of work force. Such attestation and statement is attached hereto as Exhibit _____. Any bids received which do not include such attestation or include an incomplete attestation will be deemed non-compliant and will not be considered for award. Be advised that the Contractor will be required to provide monthly reports demonstrating good faith efforts to meet the work force requirements using LCPtracker software.

CONTRACT LANGUAGE

The Commissioner shall include the following language in all award contracts for construction projects determined to be subject to EO #18.

ERIE COUNTY EXECUTIVE ORDER #18: The Commissioner or Division Director of the Erie County Department or Division letting the contract has determined that the project

contemplated herein is subject to the provisions of Erie County Executive Order #18 which is attached hereto for reference as Exhibit _____. Prior to the final execution of this Agreement, Contractor shall furnish to the County a fully executed and verified Local and Disadvantaged Worker Compliance Certification. A fillable Certification is attached hereto as Exhibit _____. Contractor will be required to provide monthly reports demonstrating good faith efforts to meet the work force requirements using LCPtracker software. Contractor shall make such records as deemed necessary available upon request to the Erie County Division of Equal Employment Opportunity for review. The County shall have the right, upon reasonable notice and at reasonable times, to inspect the books and records of the Contractor, for the purpose of verifying information supplied in the Local and Disadvantaged Worker Compliance Certification and for any other purpose reasonably related to confirming Contractor compliance with Erie County Executive Order #18. Notwithstanding any other termination provisions contained herein, violations of the provisions of Executive Order #18 will constitute grounds for immediate termination of the underlying contract and shall further result in the Contractor being deemed a non-responsible bidder for a period of twelve months. Once grounds for immediate termination are established, actual contract termination will be at the discretion of Erie County.

WAIVER PROCESS

When a Commissioner determines that a project is subject to the provisions of EO #18, he/she shall notify the successful bidder of such determination at the time of award. The successful bidder shall then have the opportunity to submit a partial waiver request to the Erie County Division of Equal Employment Opportunity for consideration. Waiver requests shall be made in writing and directed to the Erie County Division of Equal Employment Opportunity at 95 Franklin Street, Room 625, Buffalo, NY 14202 "Attention Director". In order to prevent undue project delays, any such request shall be made as soon as the successful bidder is aware that it cannot meet the full requirements of EO #18. Should a partial waiver be requested such request shall state which EO #18 requirement(s) cannot be met and shall further indicate how the successful bidder intends to partially comply. All waiver requests shall contain a narrative of the efforts employed by the successful bidder in attempting to comply with EO #18 by recruiting construction workers to work on the subject project and the reasons why such efforts were only partially successful. At a minimum, these efforts must include and the narrative must state the following:

- 1) Where a successful bidder has, through collective bargaining agreements or other legally binding agreements, any exclusive hiring arrangements with local unions such successful bidder must attempt to meet the mandates of EO #18 by following the hiring process outlined in their respective exclusivity agreements. The narrative provided in connection with any waiver request will describe the process followed and the results of those efforts. Where a successful bidder has no exclusive hiring agreements in place or where a successful bidder is unable to comply with EO #18 after following their exclusive hire process, such successful bidder must proceed to follow steps 2 through 4 below.
- 2) Posting the job opening(s) for construction worker(s) on or with each of the following:

- A) The New York State Department of Labor Database used by the Buffalo and Erie County Workforce System (www.jobzone.ny.gov)
 - B) The People United for Sustainable Housing located at 271 Grant Street, Buffalo, NY 14213
 - C) At least one private staffing firm to aid Contractor in locating qualified candidates
 - D) Any other staffing organization or web site if so directed by the Erie County Commissioner of Public Works
- 3) All job opening(s) posted pursuant to Section one above must be posted for a period of at least ten (10) consecutive calendar days. Proof of publication must be included in all waiver requests.
- 4) The narrative provided with a waiver request shall state the number of candidates found via the job postings that would aid Contractor in meeting the requirements of EO #18, the number of those candidates that were subsequently interviewed for the opening(s), and if such candidates were not hired, the narrative shall include the reason(s) why the candidates were found to be unsuitable for the position(s).
- 5) A copy of the waiver request shall be sent to the Project Manager/Point of Contact in the Erie County Department of Public Works located at 95 Franklin Street, 14th Floor, Buffalo, NY 14202

If the Erie County Division of Equal Employment Opportunity determines that a successful bidder has demonstrated a good faith effort to comply in whole with the provisions of EO #18, and yet for reasons delineated in its request still cannot do so, a partial waiver shall be granted to the successful bidder.

SPECIALIZED WORK EXEMPTION

Certain Erie County Construction Projects require the use of workers who possess specialized skills, training, or formal certification/licensing in order to complete the contemplated work. When a Commissioner or Director of an Erie County Department or Division believes that there are an insufficient number of construction workers that meet EO#18 requirements and possess the unique qualifications necessary to complete such specialized work, he/she may request a specialized work exemption from the Erie County Division of Equal Employment Opportunity. Where granted, a specialized work exemption removes the mandates of EO #18 in whole or in part for a given project.

A request for a specialized work exemption shall be made in writing by the commissioner or director bidding the subject project. The request shall be directed to the Erie County Division of Equal Employment Opportunity at 95 Franklin Street, Room 625, Buffalo, NY 14202 "Attention Director" and must include a narrative describing what the specialized work involves, what portion of the project such specialized work is needed for, the particular skills, training, or formal

certification/licensing needed to perform the work, and the steps taken to determine if workers meeting EO #18 requirements have the necessary expertise. Upon receipt of a specialized work exemption request, the Equal Employment Opportunity Director shall form an ad hoc committee, and select its members, in order to review the request and either grant or deny the specialized work exemption.

The specialized work exemption committee shall consist of four members to include the commissioner or director of the department or division bidding the project, the involved project manager, and one respective representative from the Erie County Department of Law and the Erie County Division of Equal Employment Opportunity. The committee shall convene as soon as practicable to consider the specialized work exemption request. In making a determination, the committee shall consider all information presented to it and shall solicit further information from any source available in order to aid in its deliberations. A determination as to whether or not to grant the specialized work exemption shall be made within a reasonable time so as not to frustrate the bidding process for the contemplated project. The committee's determination shall be memorialized in writing and shall include its specific findings and the information upon which such findings were made.

Where the committee finds that a specialized work exemption is warranted, a notice to bidders shall be included in the project bid specifications which shall clearly indicate what portion of the project is exempt from the provisions of EO #18 and shall further indicate that the remaining work, if any, may still be subject to EO #18. Where there is work remaining outside of the granted exemption, the attestation of work force must be completed to include that portion of work which falls outside of the exemption.

COMPLIANCE

The Director of the Erie County Division of Equal Employment Opportunity shall ensure that all contractors and subcontractors working on a Project as defined herein are in compliance with EO #18 or are in compliance with the provisions of any duly granted partial waiver or have been granted a full waiver.

PENALTY FOR NONCOMPLIANCE

Any failure to adhere to Erie County Executive Order #18 or the Rules and Regulations contained herein shall cause Contractor to be deemed noncompliant. Such noncompliance shall constitute grounds for immediate termination of the underlying contract and shall further result in the Contractor being deemed a non-responsible bidder for a period of twelve months. Once grounds for immediate termination are established, actual contract termination will be at the discretion of Erie County.

County of Erie Executive Order No. 18
Monitoring and Reports

All EMPLOYER/EMPLOYEE information reviewed or gathered, including Social Security Numbers, as a result of ERIE COUNTY'S Division of Equal Employment Opportunity (DEEO) monitoring and enforcement activities will be held confidential in accordance with all County, State and Federal confidentiality and privacy laws and used only for the purposes that it was reviewed or gathered.

- A. The Division of Equal Employment Opportunity (DEEO) shall monitor all Projects as authorized by Executive Order No. 18. The DEEO will require the following:
1. CONTRACTOR and Subcontractor whose projects are subject to ERIE COUNTY Executive Order No. 18 are to utilize their Certified Payroll Records when reporting their workforce compliance. That of the total work hours performed by residents of New York State on an Erie County construction project 100% are worked by residents of the Local Labor Area and 70% are worked by residents of the County of Erie.
 2. Monthly LCPTTracker Reports to determine if the CONTRACTOR and/or Subcontractor's workforce is in compliance with the submitted Agreement and that Monthly Compliance Reports identify residents of Erie County who reside in zip codes with a poverty rate of 30% or higher, and/or, in any ratio, disadvantaged workers who reside in Erie County. (***A disadvantaged worker is (1) a resident who has a household income below 50% of the Area Median Income (AMI); or (2) has been released from prison within the last 10 years, or (3) participates in the Temporary Assistance for Needy Families Program; or (4) participates in the Supplemental Nutrition Assistance Program; or (5) has been unemployed for at least 12 consecutive months.***)
 3. Receive LCPTTracker Reports; inspect certified payroll, personnel records and any other records or information necessary to ensure the required workforce utilization is in compliance with the EC Executive Order No. 18.
 4. Conduct desk reviews of Monthly Compliance Reports.
 5. Monitor and complete statistical reports that identify the overall project, contractor, and subcontractors' hiring or hours worked percentages in accordance with meeting Executive Order No. 18 stated requirements.
 6. Provide formal notification of non-compliance with the required workforce percentages or any alleged breach of Executive Order No. 18 to all contracting agencies, and stakeholders.

B. PENALTIES

Willful breach of the Executive Order No. 18 by the CONTRACTOR, failure to submit the Contract Compliance Reports via LCPTTracker, deliberate submission of falsified data, or failure to reach specific hiring or hours worked requirements may result in:

1. Erie County immediate termination of the underlying contract.
2. The CONTRACTOR being deemed a non-responsible bidder for a period of twelve months.

**ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

EO #18 - EXHIBIT # 4

First Source Policy Targeted Zip Codes – Erie County Zip Codes with 20% Poverty Rate or Higher:

Zip Code	Area
14201	Buffalo – Peace Bridge to Chippewa
14203	Buffalo – Downtown and the Outer Harbor
14204	Buffalo – Fruit Belt to the Old First Ward
14206	Cheektowaga
14207	Buffalo
14208	Buffalo
14209	Buffalo
14210	Buffalo
14211	Buffalo, Cheektowaga and Sloan – Kensington and Bailey
14212	Buffalo and Cheektowaga – Central Terminal and Broadway
14213	Buffalo – Peace Bridge to Buffalo State
14214	Buffalo – Delaware Park to UB (East Side)
14215	Buffalo and Cheektowaga – Intersection of Bailey Ave. and Route 33
14218	City of Lackawanna
14061	Farnham
14169	Wales Center

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

SUPPLEMENTARY GENERAL CONDITIONS

The following supplements modify the “GENERAL CONDITIONS OF THE CONTRACT”. Where a portion of the General Conditions is modified or deleted by these Supplementary General Conditions, the unaltered portions of the General Conditions shall remain in effect.

**Item -1: SECTION 3 – RELATIONS AMONG OWNERS, CONTRACTOR AND ARCHITECT/
ENGINEER**

**3.14 Delete and replace with the following: “3.14 OWNER’S RIGHT TO TERMINATE
CONTRACT AND COMPLETE THE WORK**

A. The County, upon ten (10) days notice to the Contractor, may terminate this Agreement in whole or in part when the County deems it to be in its best interest. In such event, the Contractor shall be compensated and the County shall be liable only for payment for services already rendered under this Agreement prior to the effective date of termination at the values established under the approved Schedule of Values. Upon receipt of notice that the County is terminating this Agreement in its best interests, the Contractor shall stop work immediately and incur no further costs in furtherance of this Agreement without the express approval of the Commissioner of Public Works, and the Contractor shall direct any approved sub contractor to do the same.

In the event of a dispute as to the value of the Work rendered by the Contractor prior to the date of termination, it is understood and agreed that the Commissioner shall determine the value of such work rendered by the contractor. The Contractor shall accept such reasonable and good faith determination as final.

B. In the event the County determines that there has been a material breach by the Contractor of any of the terms of the Agreement and such breach remains uncured for forty-eight (48) hours after service on the Contractor of written notice thereof, the County, in addition to any other right or remedy it might have, may terminate this Agreement and the County shall have the right, power and authority to complete the Work provided for in this Agreement, or contract for its completion, and any additional expense or cost of such completion shall be charged to and paid by the Contractor. Without limiting the foregoing, upon written notice to the Contractor, repeated breaches by the Contractor of duties or obligations under this Agreement shall be deemed a material breach of this Agreement justifying termination for cause hereunder without requirement for further opportunity to cure.”

APPENDIX "E"

COUNTY OF ERIE – CONTRACT REFERENCE DOCUMENTS

Exhibit 1 – Example Agreement

Exhibit 2 – Example Performance and Labor Bond

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

DPW PROJECT # **YEAR-LOCATION-#**
VENDOR #

AGREEMENT

This Agreement made as of the ____ day of _____, 2020 by and between the County of Erie, a municipal corporation of the State of New York, having its principal place of business at The Edward A. Rath, County Office Building, 95 Franklin Street, Buffalo New York 14202, hereinafter called "County" and **AWARDEE (VENDOR)** having its principal office at **VENDOR ADDRESS, CITY, STATE, ZIP** hereinafter called the "Contractor".

All notices or other communications including service under this contract shall be deemed to have been properly given when sent, first class, postage prepaid, return receipt requested to the addresses set forth below:

For the County:
Erie County Department of Public Works
95 Franklin Street, Suite 1400
Buffalo, New York 14202

For the Contractor:
VENDOR NAME
VENDOR ADDRESS
CITY, STATE ZIP

WITNESSETH That whereas the County intends to do **DISCIPLINE** construction work in connection with the **PROJECT NAME**, located at **PROJECT ADDRESS** hereinafter called the "Project" in accordance with the Contract Documents prepared by **AE DESIGN FIRM**, having its principal offices at **AE ADDRESS**.

NOW, THEREFORE, The County and the Contractor for the consideration hereinafter set forth, agree as follows:

The Contractor agrees to furnish all necessary labor, materials, equipment, tools and services necessary to perform and complete in a workman - like manner all work required for the construction of the **PROJECT**, in strict compliance with the Contract Documents herein mentioned, which are hereby made a part of the Contract, including the following Addenda:

Addendum # 1 DATE
Addendum # 2 DATE

COMPLETION TIME: Work shall commence immediately upon receipt of written Notice to Proceed and shall progress pursuant to the provisions set forth in the agreement. The Contractor hereby agrees substantially complete with the work of this agreement **within 000 calendar days** from the date of issuance of the Notice to Proceed.

SUB-CONTRACTORS: The Contractor agrees to bind every sub-Contractor by the terms of the Contract Documents. The Contract Documents shall not be construed as creating any contractual relation between any sub-Contractor and the County.

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

AGREEMENT AMOUNT: The County agrees to pay and the Contractor agrees to accept, in full payment for the performance of this Agreement, the total amount of: **AMOUNT LONG WRITTEN Dollars (\$00.00)**. And be funded from **SAP Account(s) X.00000**.

- a. Progress Payments will be made in accordance with the General Conditions of the Contract.

CONTRACT DOCUMENTS: the Contract is comprised of the documents listed in paragraph 1.01 of the General Conditions of the Contract. In the event that any provision of one Contract Document, conflicts with the provision of another Contract Document, the provision in that Contract Document first listed below shall govern, except as otherwise specifically stated:

- a. Agreement (This Instrument)
- b. Addenda to Contract Documents
- c. Legal and Procedural documents other than Bonds
 - 1. Proposal which is attached hereto as "Appendix A".
 - 2. Information for Bidders
 - 3. Advertisements
 - 4. Form of Affidavit for Final Payment
 - 5. Form of Guarantee
- d. Detailed Specifications Requirements
- e. Drawings
- f. General Conditions of the Contract (Sections 1 through 9, inclusive)
- g. Supplementary General Conditions
- h. Bonds
 - 1. Performance, Labor and Material Payment Bond
 - 2. Proposal Guaranty

AUTHORITY AND RESPONSIBILITY OF THE ARCHITECT - ENGINEERS: All work shall be done under the general administration of the Architect - Engineer. The Architect - Engineer shall decide any and all questions which may arise as to quality and acceptability of materials furnished, work performed, rate of progress of the work, interpretation of drawings and specifications, and all questions as to the acceptable fulfillment of the contract on the part of the Contractor.

SUCCESSORS AND ASSIGNS: This agreement and all of the covenants hereof shall inure to the benefit of and be binding upon the County and the Contractor respectively and his partners, successors, assigns and legal representatives. Neither the County nor the Contractor shall have the right to assign, transfer or sublet his interests or obligations hereunder without written consent of the other party.

INDEMNIFICATION: To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the County of Erie, its agents, officers and employees, from any and all liability, damage, claims, demands, costs, judgments, fees, attorney's fees or loss arising out of, directly or indirectly, or relating in any way to the performance or failure to perform under this Agreement by the Contractor or third parties under the direction or control of the Contractor, including but not limited to personal injuries. The Contractor shall defend the County, at its sole expense, against any and all claims, demands or causes of action directly or indirectly arising out of this Agreement and to bear all other costs and expenses related thereto.

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

EXECUTIVE ORDER No. 13 (2014): The Contractor shall comply with Erie County Executive Order 13 (2014) and agrees to complete the Certificate collectively attached hereto **as Appendix “C”** and made a part hereof. The Contractor shall make such records available, upon request, to the County’s Division of Equal Employment Opportunity for review. The County shall have the right, upon reasonable notice and at reasonable times, to inspect the books and records of the Contractor, its offices and facilities, for the purpose of verifying information supplied in the Erie County Equal Pay Certification and for any other purpose reasonably related to confirming the Contractors’ compliance with Erie County Executive Order 13 (2014). Notwithstanding the termination provisions contained herein, violation of the provisions of Executive Order 13 (2014) , may constitute grounds for the immediate termination of this Agreement and may constitute grounds for determining that the Contractor is not qualified to participate in future County contracts.

EXECUTIVE ORDER No. 18 (2017): The Commissioner or Division Director of the Erie County Department or Division letting the contract has determined that the project contemplated herein is subject to the provisions of Erie County Executive Order #18. Prior to the final execution of this Agreement, Contractor shall furnish to the County a fully executed and verified *Local and Disadvantaged Worker Compliance Certification*. A fillable Certification is included in **Appendix “D”**. Contractor shall make such records as deemed necessary available upon request to the Erie County Division of Equal Employment Opportunity for review. The County shall have the right, upon reasonable notice and at reasonable times, to inspect the books and records of the Contractor, for the purpose of verifying information supplied in the Local and Disadvantaged Worker Compliance Certification and for any other purpose reasonably related to confirming Contractor compliance with Erie County Executive Order #18. Notwithstanding any other termination provisions contained herein, violations of the provisions of Executive Order #18 will constitute grounds for immediate termination of the underlying contract and shall further result in the Contractor being deemed a non-responsible bidder for a period of twelve months. Once grounds for immediate termination are established, actual contract termination will be at the discretion of Erie County.

EXECUTORY: This Contract is executory only to the extent of funds appropriated and made available to the County, therefore, and no liability shall be incurred by the County beyond such available funds.

a. The Contractor agrees not to submit a Request for Payment until the Contractor receives an executed copy of this Agreement from the County.

COUNTY’S RIGHT TO TERMINATE:

a. The County, upon ten (10) days’ notice to the Contractor, may terminate this Agreement in whole or in part when the County deems it to be in its best interest. In such event, the Contractor shall be compensated and the County shall be liable only for payment for services already rendered under this Agreement prior to the effective date of termination at the values established under the approved Schedule of Values. Upon receipt of notice that the County is terminating this Agreement in its best interests, the Contractor shall stop work immediately and incur no further costs in furtherance of this Agreement without the express approval of the Commissioner of Public Works, and the Contractor shall direct any approved sub-contractor to do the same. In the event of a dispute as to the value of the Work rendered by the Contractor prior to the date of termination, it is understood and agreed that the Commissioner shall determine the value of such Work rendered by the Contractor. The Contractor shall accept such reasonable and good faith determination as final.

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

b. In the event the County determines that there has been a material breach by the Contractor of any of the terms of the Agreement and such breach remains uncured for forty-eight (48) hours after service on the Contractor of written notice thereof, the County, in addition to any other right or remedy it might have, may terminate this Agreement and the County shall have the right, power and authority to complete the Work provided for in this Agreement, or contract for its completion, and any additional expense or cost of such completion shall be charged to and paid by the Contractor. Without limiting the foregoing, upon written notice to the Contractor, repeated breaches by the Contractor of duties or obligations under this Agreement shall be deemed a material breach of this Agreement justifying termination for cause hereunder without requirement for further opportunity to cure.

SPECIAL PROVISIONS: The County and the Contractor mutually agree that this Agreement shall be subject to the following Special Provision:

The Contractor agrees that he will hold all of the Alternate and/or Unit Prices appearing in the PROJECT PROPOSAL, "Appendix A", for the duration of the Agreement with Owner. All materials and workmanship shall be in strict accordance with specifications and drawings. The Owner, reserves the right to either accept or reject any or all of the Alternate and/or Unit Prices in the PROJECT PROPOSAL, "Appendix A". The total amount of the contract as heretofore states, shall be accordingly increased or decreased, as the case may be.

INSURANCE: During the term of this Agreement, the Contractor agrees to maintain insurance coverage consistent with the insurance requirements attached hereto and incorporated herein as **Schedule B**. Contractor agrees to name the "County of Erie" as an additional insured on all such insurance policies, and to provide to the County Attorney certificate(s) of insurance evidencing such insurance coverage prior to the commencement of any work on the Project. All insurance certificates shall be subject to approval by the office of the County Attorney.

CONFIDENTIALITY: The County agrees to assist the Contractor with the scope of work described in the Contractor's Contract by providing applicable drawing files that may include but not be limited to; drawings, specifications, approved submittals and any other reasonable information necessary to perform the Contractor's scope of work. Any and all information provided to the Contractor by The County or the Design Consultant, shall be defined as "Confidential Information".

Contractor hereby agrees to maintain any Confidential Information received or learned in preparation of the underlying scope of work, (a) in confidence to the same extent the Contractor maintains its own proprietary industrial information of similar kind and value (but at a minimum the Consultant shall use commercially reasonable efforts); (b) the Contractor agrees not to disclose such Confidential Information to any Third Party without prior consent of the County; and (c) not use such Confidential Information for any purpose except those permitted by this Agreement.

RESOLUTION: This Agreement is made and executed pursuant to resolutions of **the Erie County Legislature adopted on the 00 day of MONTH, YEAR being Communication Number 00E-00**, copy(ies) of which are annexed hereto.

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

This Agreement document, together with the Contract Documents listed on page A2 of the Agreement constitutes the sole and complete agreement and understanding between the Parties.

County of Erie

VENDOR NAME

Mark Poloncarz/Maria Whyte
County Executive/Deputy County Executive
Dated: _____

Print Name:
Title:
Date:

95 Franklin Street
BUSINESS ADDRESS

VENDOR ADDRESS
BUSINESS ADDRESS

Buffalo NY 14202

CITY STATE ZIP

CITY STATE ZIP

CITY STATE ZIP

APPROVED AS TO CONTENT
Electronically Signed

APPROVED AS TO FORM
Electronically Signed

COMMISSIONER OF PUBLIC WORKS
COUNTY OF ERIE, STATE OF NEW YORK

Document No. _____
ASSISTANT ERIE COUNTY ATTORNEY
COUNTY OF ERIE, STATE OF NEW YORK

CORPORATE ACKNOWLEDGEMENT

State of New York)
County of)

On the ___ day of _____, 2020, before me personally came _____,
to me known who, being by me duly sworn, did depose and say that he reside(s) in _____
_____ ; that he is the _____ of _____, the
corporation described in and which executed the above instrument; that he knows the seal of said corporation;
that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the board of
directors of said corporation, and that he signed his name thereto by like authority.

Notary Public

Re: PROJECT I.D.

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

PERFORMANCE AND LABOR AND MATERIAL PAYMENT BOND

PROJECT No. _____

KNOW ALL MEN BY THESE PRESENTS, That we, _____
of _____ (hereinafter called Principal) and the
_____ a corporation of the State of _____
having its principal office in the City of _____ and authorized to do business in the State of New
York (hereinafter called Surety) and held and firmly bound unto the County of Erie, State of New York (hereinafter called
Obligee), in the amount of _____
(\$ _____) Dollars, lawful money of the United States of America, for the payment of which the
Principal and the Surety hereby bind themselves, their heirs, executors, administrators, successors and assigns jointly and
severally, firmly by these presents.

WHEREAS, the above bounden Principal has by written agreement dated _____ 20__ entered into a
contract with the Obligee for \$ _____ which contract and documents included therein by reference
made a part hereof (hereinafter called Contract), covering the following project, _____

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall:

1. Well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said Contract during the original term of said Contract and any extensions thereof that may be granted by the Obligee, with or without notice to the Surety, and during the life of any guarantee required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all modifications of said Contract that may hereafter be made, with or without notice to the Surety.
2. Promptly make payment to all persons having a direct contract with the Principal or with a subcontractor of the Principal supplying labor and material in the prosecution of the work provided for in said Contract and any and all modifications of said Contract that may hereinafter be made, notice of which modifications to the Surety being hereby waived; then this obligation shall be void, otherwise to remain in full force and effect.

**COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

PROVIDED, HOWEVER, and this bond is executed and accepted upon the following express conditions.

1. That all persons who have supplied labor and material as aforesaid shall have a direct right of action hereunder against the Principal and the Surety subject, however, to the prior right of the Obligees to recover hereunder on account of any loss or damage caused to it by the failure of the Principal to perform the Contract as aforesaid.
2. The Surety for value received hereby stipulates and agrees, if requested to do so by the Obligees, to fully perform and complete the work and furnish the materials mentioned and described in said contract pursuant to terms, conditions, and covenants thereof, if for any cause said principal fails or neglects to so fully perform said work; the said Surety further agrees to commence said work of completion twenty (20) days after notice thereof from the Obligees.
3. That the Obligees shall notify the Surety by registered letter, addressed and mailed to its Home Office, of any breach of said-Contract within sixty (60) days after such breach shall have come to the knowledge of the Obligees (Owner)
4. That the Surety shall not be liable hereunder for any damage or compensation recoverable under any Workmen's Compensation or Employer's Liability Statute.
5. That no suit, action or proceedings, for loss or damage caused by a breach of any of the conditions of this bond shall be brought against the Surety by the Obligees after one (1) year from the day of final acceptance of the work by the Owner.
6. That no suit, action or proceedings for loss caused by the failure of the Principal to pay all persons supplying labor and material in the prosecution of the work under said Contract shall be brought against the Surety after six (6) months from the day on which final payment of the Contract is made.

Signed, sealed and dated this _____ day of _____ 20_____

(Principal) (seal)

(Principal) (seal)

By _____ (seal)
President, Vice President, Secretary-Treasurer
(Surety)

SECTION 011500 - APPLICATION FOR PAYMENT

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. The Contractor for this work shall be held to have read: all of the Bidding Requirements, all of the County of Erie General Conditions, the Supplementary General Conditions, Information for Bidders, Division 1 and Contract Proposal Forms before submitting a tender for the proposed work, and in the execution of the work, he will be bound by all of the conditions and requirements therein.
- B. Drawings and general provisions of the Contract, Division 01 Specification Sections, apply to this Section. All work shall comply with the New York State Uniform Fire Prevention and Building Code, latest edition.

1.2 GENERAL REQUIREMENTS

- A. The Contractor shall submit an Application for Payment in accordance with the requirements stated in the General Conditions of the Contract Specifications and as indicated below.
- B. During Construction, Monthly Applications for Payment will be approved only at the scheduled bi-weekly Project Construction Meetings.
- C. All copies must have original signatures.

1.3 REVIEW PROCEDURE

- A. The Contractor shall submit a Schedule of Values in the ‘Request For Payment Worksheet’ format included within this specification to the Owner and the Architect/ Engineer for review and approval prior submit any pencil copy for approval or billing for any work.
 - a) All items already listed in the template provided shall be included as line items accordingly.
 - b) ALL subcontractors with their associated scope of work broken down by line item (row) shall be included as shown in the template provided. This includes all work that the prime contractor anticipates to subcontracted to complete the project scope.
 - i. In the event a subcontractor has yet to be identified by the prime contractor, the anticipated scope of work for a subcontractor(s) shall be provided and broken down by line (row) item as shown to the best of the prime contractor’s knowledge. The eventual subcontractor(s) used to complete a given scope of work can be listed on future payment applications once a subcontractor is identified by the prime contractor.
 - ii. Work cannot be billed for until the subcontractor (if applicable) is identified for that specific scope/ portion of work related to the project on the Schedule of Values.
- B. The Contractor, Architect/Engineer, Construction Inspector, and Construction Manager (when applicable) must review all Preliminary Requests for Payment (Pencil Copies) prior to submission of the Monthly Application for Payment. Pencil copy Requests for Payment attempting to forecast work yet to be completed (billing projections) will not be reviewed.

- C. After the Pencil Copies are approved, the Contractor shall forward their Monthly Application for Payment with all the required documents to the Architect/Engineer.
- D. The Architect/Engineer must review the Applications for Payment to ensure that they are mathematically accurate and that all the required documents are included.
- E. If any of the required documentation is missing or inaccurate, the Application for Payment shall be rejected and returned to the Contractor. Such action will be recorded in the minutes of the Project Meeting. Rejected Applications for Payment must be corrected and re-submitted to the Architect/Engineer and will not be reviewed until the next Project Meeting.
- F. If the required documentation is complete and accurate the Monthly Application for Payment will be approved and signed, by all parties, at the Project Meeting.
- G. The Department of Public Works, Office of the Commissioner will receive and log-in the approved Monthly Application for Payment when received.

1.4 REQUIRED DOCUMENTS

- A. The Contractor's Monthly Application for Payment **must include** one (1) set of originals comprised of the following:
 - 1. Invoice: Printed on the Prime Contractor's own Letterhead.
 - 2. Certificate for Payment: Signature sheet for payment certification and approval.
 - 3. Request for Payment Worksheets: Labor and material costs itemized by Specification Division of Work and/or separated by scope of work of subcontractors.
 - 4. Contractor's & Sub-Contractor's Payment Certification (CPC-1 form): To be completed separately by Prime Contractor and ALL associated Sub-Contractors (any Sub-Contractor named on the Prime Contractor's CPC form must also complete this form separately).
 - 5. Minority MBE/WBE Utilization Forms: Part B - at 30% completion and Part C - at 75% completion: To be completed by Prime Contractor.
 - a. MBE/WBE Utilization Forms as required are included within the General Conditions – Appendix A
 - 6. Certified Payroll Records, from each Prime Contractor and from each Sub-Contractor: Certified Payroll Records are to be submitted electronically via LCP Tracker per the General Conditions included as part of this project manual.
 - 7. Certificate of Insurance for Stored Materials (when applicable): To be completed by Prime Contractor only when billing for stored materials not yet delivered to the jobsite, per sections 4.03, 5.02, and 7.02 of the General Conditions.
- B. The Contractor's **FINAL** Application for Payment including **retention only must include** one (1) set of originals comprised of the following:
 - 1. Invoice: Printed on the Prime Contractor's own Letterhead.
 - 2. Certificate for Payment: Signature sheet for payment certification and approval.

3. Request for Payment Worksheets: Labor and material costs itemized by Division of Work and/or separated by scope of work of subcontractors.
4. Final Waiver of Lien and Claim (FW-1 form): Affix with Notary Stamp. To be completed by Prime Contractor and ALL associated Sub-Contractors.
5. Form of Guarantee (F.G.-1 form): To be completed by Prime Contractor only.
6. Form of Affidavit For Final Payment (F.A.-1 form): To be completed by Prime Contractor only.
7. Public Improvement Contractor Certification (PICC-2 form): To be completed by Prime Contractor.
8. Public Improvement Contractor Certification (PICC-1 form): To be completed separately by all Sub-Contractors (if applicable).
9. Minority MBE/WBE Utilization Form Part D - at 100% completion: To be completed by Prime Contractor only.
10. Executive Order 18 Workers Compliance Certification (EO18-1 form) (if applicable): To be completed by Prime Contractor only.
11. Apprenticeship Utilization Certification (AU-1 form) (if applicable): To be completed by Prime Contractor only.

ALL SIGNATURES ON ALL FORMS NOTED ABOVE MUST BE ORIGINAL SIGNATURES

1.5 DISTRIBUTION

- A. In addition to including MWBE forms with the payment application, the Prime Contractor must mail separately, one (1) copy of the Minority MBE/WBE Utilization forms Part B, Part C, and Part D forms at 30% completion, 75% completion, and 100% completion respectively to the Erie County Division of Equal Employment Opportunity, 95 Franklin St., Buffalo, New York, 14202.
- B. If deemed applicable to the underlying project, the Prime Contractor and all subcontractors shall provide monthly reports demonstrating good faith efforts to meet the requirements outlined in Executive Order #18 dated September 27, 2017 and Local Law 3-2018 via LCPtracker.

1.6 STANDARD FORMS

- A. **THE ERIE COUNTY DEPARTMENT OF PUBLIC WORKS' STANDARD FORMS MUST BE USED IN ALL APPLICATIONS FOR PAYMENT. AIA (AMERICAN INSTITUTE OF ARCHITECTS) FORMS OR ANY OTHER FORMS WILL NOT BE ACCEPTED IN LIEU OF THE ABOVE. THE STANDARD FORMS ARE ANNEXED HERETO FOR CONTRACTOR'S REFERENCE AND USE.**

SAMPLE INVOICE
(ON YOUR OWN LETTERHEAD)

X.Y.Z. CO., INC.

499 Elm Avenue
P.O. BOX 9-C
Buffalo, NY 14000
Telephone: (716) 666-8888

Date: _____

Payment No.: _____

To: COUNTY OF ERIE
DEPARTMENT OF PUBLIC WORKS – OFFICE OF THE COMMISSIONER
14TH FLOOR
95 FRANKLIN STREET, ROOM 1408
BUFFALO, NY 14202

Re: PROJECT NAME: _____
DPW PROJECT NO.: 2021-XXX-01
BILLING PERIOD: From 1/1/2021 to: 1/31/2021

ORIGINAL CONTRACT AMOUNT:		\$	0.00
CHANGE ORDER:	NO.: _____	\$	0.00
	NO.: _____	\$	0.00
	NO.: _____	\$	0.00
CONTRACT SUM TO DATE:		\$	0.00

Total Complete to Date:	\$	0.00
Less 5% Retainage:	\$	0.00
Total Earned Less 5% Retainage:	\$	0.00
Less Previous Payments	\$	0.00
Current Amount Due:	\$	0.00

VENDOR NO: xxxxxx

CE/PO NUMBER: CE4000XXXXX

CONTRACT DOC NO: XX-XXX-PW

SAP WBS NO: X.XXXXXX.X

CERTIFICATE FOR PAYMENT

PROJECT NAME: _____

CONTRACTOR NAME: _____

DPW PROJECT NO.: _____

PAYMENT NO.: _____

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Undersigned certifies to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified.

AMOUNT CERTIFIED \$ _____

Contractor Company Name	Contractor Representative's Name	Signature	Date
-------------------------	----------------------------------	-----------	------

Architect/Engineer Firm Name	Architect/Engineer Representative's Name	Signature	Date
------------------------------	--	-----------	------

Erie County DPW

Construction Inspector (Owner)	Construction Inspector (Owner) Name	Signature	Date
--------------------------------	-------------------------------------	-----------	------

Erie County DPW

Project Manager (Owner)	Project Manager (Owner) Name	Signature	Date
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This Certificate is not negotiable. The **AMOUNT CERTIFIED** is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

REQUEST FOR PAYMENT - WORKSHEETS

PROJECT NAME: _____

SHEET#: _____ OF _____

CONTRACTOR NAME: _____

DPW PROJECT NO.: _____

PAYMENT NO.: _____

TYPE OF CONSTRUCTION WORK: _____

BILLING PERIOD: FROM _____ TO _____

DATE: _____

ITEM NO.	ITEM	ITEM PRICE		PERCENT COMPLETE		AMOUNT COMPLETE TO DATE		AMOUNT PREVIOUSLY BILLED		AMOUNT THIS BILLING		AMOUNT UNBILLED	
		L	M	L	M	L	M	L	M	L	M	L	M
PREVIOUS SUBTOTAL(If Applicable)													
NO.	ALLOWANCES (If Applicable)												
CONTRACT TOTALS													
CONTRACT GRAND TOTAL													
NO.	APPLIED CHANGE ORDERS												
	Change Order X-0X												
CHANGE ORDER TOTALS													
CHANGE ORDER GRAND TOTAL													
ADJUSTED TOTALS													
ADJUSTED GRAND TOTAL													

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

**CONTRACTOR'S & SUB-CONTRACTOR'S PAYMENT CERTIFICATION
TO THE COMPTROLLER OF THE COUNTY OF ERIE, NEW YORK**

Pursuant to the _____ work for
(type of work or contract)
_____ shown on the attached payment request,
(name of project)

I CERTIFY

(1) That the following constitute all the sub-contractors employed by me on this work during the period covered by this request (any sub-contractor named below must also submit this form separately. If none, so state):

NAME	ADDRESS
_____	_____
_____	_____
_____	_____
_____	_____

(2) That the following constitute all claims by sub-contractors & suppliers for material, labor and/or supplies used by me on this work, which are due and payable and have not been paid (If none, so state):

NAME	ADDRESS	AMOUNT
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(3) That the following constitute all laborers employed by me on this work who are unpaid and the amount due each (If none, so state):

NAME	ADDRESS	AMOUNT
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(4) That all employees engaged by me on this work have been paid the prevailing rate of wages on prevailing rate schedule case no. _____
(PRC)

Dated: _____

CONTRACTOR: _____

BY: _____

TITLE: _____

State of New York }
County of Erie }

_____ being duly sworn, deposed and says, that he is the
_____ of the above company; that he has read the above statement:
that he knows the contents thereof, and that the same is true of his own knowledge.

Commissioner of Deeds or Notary Public, Erie County
CPC 1



FINAL WAIVER OF LIEN AND CLAIM

To: County of Erie

(Owner)

From:

(Name of Contractor Company)

(Address of Contractor Company)

Project:

The undersigned Contractor, Subcontractor or Supplier Company (hereinafter "Contractor"), for and in consideration of the sum of \$ _____ being payment for any and all work performed, services rendered and / or materials furnished with respect to the aforementioned Project, under all contracts, orders and instructions, including extras, written, and for other goods and valuable consideration paid by Owner, the receipt and sufficiency of which is hereby acknowledged, hereby covenants and warrants:

1. Contractor does hereby waive, release and relinquish any and all claims, demands and rights of lien to the extent of the amount shown hereon and previously paid for all work, labor, materials, machinery or other goods, equipment or services done, performed or furnished for the construction located at the project described above.
2. Contractor warrants that it has not been delayed in the performance of its works to date and that it has incurred no extra costs in connection herewith. The undersigned specifically waives, relinquishes and releases any and all claims incurred or alleged in connection with its work to date except only those claims, if any, previously denominated as claims and warrants and represents that any and all valid labor and / or materials and equipment bills, now due and payable, on the project herein above described on behalf of the undersigned have been paid in full to date of this waiver, or will be paid from these funds.
3. Contractor hereby agrees to indemnify and defend the Owner and to hold them free and harmless from any and all loses, claims, damages and expenses, including attorney's fees, arising directly or indirectly from any inaccuracy recited in the facts herein, from any failure to the Contractor to pay in full all sums due its laborers, subcontractors, material men and suppliers on the project, or from any liens against the project moneys filed by any such laborer, subcontractor, material men or suppliers.

Total Contract to Date: \$ _____

Due on Total Contract (after above payment): \$ _____

Contractor

Notary Public

Sworn to before me on this _____ Day of

Print Name: _____

Signature: _____

Title: _____

Signature: _____

(Affix Notary Stamp)

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

OFFICE OF THE COMPTROLLER

PUBLIC IMPROVEMENT CONTRACT CERTIFICATION

Name of Project: _____

Prime Contractor Certification

1. I am an officer of _____
and am duly authorized to make this affidavit on behalf of the prime contractor on public contract No. _____.
2. I fully comprehend the terms and provisions of Section 220-a of the New York State Labor Law.
3. Except as herein stated, there are no amounts due and owing to or on behalf of laborers employed on the project by the contractor. (Set forth any unpaid wages and supplements; if none, so state.)

Name	Amount
_____	_____
_____	_____
_____	_____

4. The contractor hereby files every verified statement required to be obtained by the contractor from the subcontractor(s).
5. Upon information and belief, except as stated herein, all laborers (exclusive of executive or supervisory employees) employed on the project have been paid the prevailing wage and supplements for their services through _____ (if more than one subcontractor, list name and date separately), the last day worked on the project by their subcontractor(s). Set forth any unpaid wages and supplements; if none, so state and utilize clause 6.

Name	Amount
_____	_____
_____	_____
_____	_____

6. The contractor has no knowledge of amounts owing to or on behalf of any laborers of its subcontractor(s).
7. Pursuant to Section 223 of the New York State Labor Law, the contractor shall be responsible if the State Commissioner of Labor determines that wages and/or supplements were not paid or provided to employees of its subcontractor(s) in accordance with the appropriate schedule.

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

I have read the foregoing statements and any schedules attached hereto and know the contents thereof, and I hereby verify that the same is true of my own knowledge, except that the statement with respect to wages and supplements owing by subcontractor is certified upon information and belief.

Signature

Print Name

Title

ACKNOWLEDGEMENT:

STATE OF NEW YORK
COUNTY OF _____ :SS: _____

On this _____ day of _____

before me personally came _____ to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same.

Notary Public

County

If this affidavit is verified by an oath administered by a notary public in a foreign county other than Canada, it must be accompanied by a certificate authenticating the authority of the notary who administers the oath. (See CPLR Sect. 2309 (c); Real Property Law, Sect. 311, 312.)

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

OFFICE OF THE COMPTROLLER

PUBLIC IMPROVEMENT CONTRACT CERTIFICATION

Subcontractor Certification

Name of Project: _____

1. I am an officer of _____
a subcontractor on public contract no. _____ and I am duly authorized to make this affidavit on behalf of the firm.
2. I make this affidavit in order to comply with the provisions of Section 220-a of the New York State Labor Law.
3. On _____ we received from _____, the prime contractor, a copy of the initial/revised schedule of wages and supplements.

Prevailing Rate Schedule Case Number _____ (PRC) specified in the public improvement contract.
4. I have reviewed such schedule(s) and agree to pay the applicable prevailing wages and to pay or provide the supplements specified therein.

Signature

Print Name

Title

ACKNOWLEDGEMENT:

STATE OF NEW YORK
COUNTY OF _____ :SS: _____

On this _____ day of _____ before me personally came
_____ to me known and known to me to be the person described in and
who executed the foregoing instruction and acknowledged that he executed the same.

Notary Public

County

If this affidavit is verified by an oath administered by a notary public in a foreign county other than Canada, it must be accompanied by a certificate authenticating the authority of the notary who administers the oath. (See CPLR Sect. 23099c); Real Property Law, Sect. 311, 312.)

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

FORM OF GUARANTEE

DATE OF SUBSTANTIAL COMPLETION: _____

BUILDING: _____

OWNER: COUNTY OF ERIE

Gentlemen:

The undersigned guarantees the _____ work
(type of work)

for the _____ under its contract
(name of project)

dated _____ with the COUNTY OF ERIE and change orders thereto,
be in accordance with drawings and specifications prepared

by: _____
(Name of Architect or Engineer)

including approved modifications to said drawings and specifications, and to be free from imperfect workmanship and/or materials.

Furthermore, the undersigned agrees to repair at its own expense, for a period of two (2) years from the date of substantial completion,
all of the _____ work covered
(type of work)

under said contract and change orders, that may prove defective.

Furthermore, the undersigned also agrees to pay the cost of repairing all damages to other work resulting from the defects in its own work and to pay the cost of replacing other work which the undersigned may disturb in making good defects in its own work.

It is also understood that COUNTY OF ERIE and/or Architect/Engineer shall give notice of observed defects with reasonable promptness, and all questions arising under this guarantee shall be decided by the COUNTY OF ERIE.

All corrections to defective work are to be done promptly and at the convenience of the Owner. Access to the work is to be scheduled by the Owner during normal working hours.

Contractor

By: _____

Witness: _____ Date: _____

Note: This form shall be executed in duplicate with original signatures.

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

FORM OF AFFIDAVIT

FOR FINAL PAYMENT

STATE OF NEW YORK

COUNTY OF ERIE

_____ being duly sworn, deposes and
says that (s)he is the contractor for _____ in the
(kind of work)
construction of _____
(Name of Project)
for COUNTY OF ERIE, the Owner; and says that (s)he is the

(President or Vice President)

(Secretary or Treasurer)

of _____ the contracting corporation.
(Name of Firm)

Deponent states that all bills and claims against the undersigned and his sub-contractors for labor, materials and equipment employed in the performance of this contract have been paid in full except the bill and claims listed below or on the schedule attached hereto.

(IF NONE, SO STATE)

(Name of Contractor)

“SEAL”

By _____

Sworn to before me this

_____ day of _____, 20_____

Notary Public or Commissioner of Deeds

NOTE: This form shall be executed in duplicate with original signatures.

COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER

APPRENTICESHIP UTILIZATION
CERTIFICATION FOR FINAL PAYMENT

STATE OF NEW YORK

COUNTY OF ERIE

_____ being duly sworn, deposes and says that he is the Contractor for the work associated with _____

_____ for the COUNTY OF ERIE, the Owner; and says that he is the _____

_____, the contracting company.

Deponent certifies that in accordance with Erie County Local Law 3-2018, _____% is the final percentage of persons participating in an apprenticeship program that the undersigned employed in the performance of this Contract.

Deponent further states that he has read the above statement and knows the content thereof, and that the same is true of his own knowledge.

(Name of Contractor)

“CORPORATE
SEAL”

By _____

Sworn to before me this

_____ day of _____, 20_____.

Notary Public or Commissioner of Deeds

**COUNTY OF ERIE DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER**

**ERIE COUNTY LOCAL AND DISADVANTAGED
WORKER COMPLIANCE CERTIFICATION**

In order to comply with Erie County Executive Order #18 dated September 27, 2017 we hereby make the following certification for the _____ project:
(name of project)

_____ 1) We hereby certify that, including any and all subcontracted work hours used on the project, we are in full compliance with Erie County Executive Order #18.

OR,

_____ 2) We hereby certify that on _____, _____ we submitted a partial waiver request to the Erie County Office of Equal Employment Opportunity. Such request for partial waiver was granted on _____, _____. The conditions granted to us under this partial waiver allow for _____

_____ We further certify that we are in compliance with all conditions granted to us under this partial waiver.

We understand that this certification is a material component of this contract. Violation of the provisions of Executive Order #18 will constitute grounds for the immediate termination of this Agreement and will further result in the Contractor being deemed a non-responsible bidder for a period of twelve months. Once grounds for immediate termination are established, actual contract termination will be at the discretion of Erie County.

Company

Signature

Verification

STATE OF NEW YORK)
COUNTY OF ERIE) SS:

A) _____, being duly sworn, states he or she is the owner of (or partner in) _____, and is making the foregoing Attestation and Statement of Workforce and that such representations made are true to his or her own knowledge.

B) _____, being duly sworn, states that he or she is the (Name of Corporate Officer) _____, of (Name of Corporation or Enterprise) _____, that he or she has read the Attestation and Statement of Workforce and that such representations made are true to his or her knowledge, and are made at the direction of the Board of Directors of the Corporation.

Sworn to before me this _____
Day of _____, 20_____

Notary Public

EXECUTIVE ORDER NO. 18
ERIE COUNTY LOCAL AND DISADVANTAGED
WORKER COMPLIANCE CERTIFICATION – WAIVER REQUEST

COMPANY: _____
PROJECT NAME: _____
PROJECT NUMBER: _____
ADDRESS / PHONE: _____

Waiver Request Requirements are as follows:

1. Contractor has made a good faith effort to meet the requirements of Executive Order No. 18.
2. This waiver request form is to be accompanied with a detailed description of reasons to grant the waiver request on company letterhead per the requirements included in the Rules and Regulations “Waiver Process”.
3. In the event Contractor is seeking a waiver due to **workforce** challenges, Contractor must provide proof of the following:
 - a. Job postings per the Rules and Regulations and a description of candidate responses; and/or
 - b. A copy of the company’s collective bargaining or other legally binding agreement(s) (i.e. union signatory agreements or exclusivity agreements, etc.) and a description of how Contractor attempted to meet E.O. 18 requirements via this hiring process.
4. In the event Contractor is seeking a wavier due to **specialized work**, Contractor must provide a description of the specialized work, the particular skills and/or licenses required to complete such work and the reasons why a waiver is needed.
5. If a partial waiver is granted, Contractor is required to be in full compliance with the adjusted requirements.

A waiver provided for Executive Order No. 18, is hereby requested on the grounds that we have met the job posting requirements of the waiver process and are seeking a reduction of the following workforce requirements:

<u>Percentage Required</u>	<u>Percentage Requested</u>
Local Labor (100%):	_____
Erie County (70%):	_____
Disadvantaged (30%):	_____

-OR-

A waiver provided for Executive Order No. 18, is hereby requested due to the nature of specialized work and the revised dollar amounts of the contract are proposed to be as follows:

Original Awarded Contract Value: \$ _____

Proposed Decrease in Contract Value subject to EO 18 requirements: \$ _____
(if requesting partial waiver)

Revised Contract Value subject to subject to EO 18 requirements: \$ _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE

DATE

FOR ERIE COUNTY APPROVAL:

Office of Equal Employment Opportunity

Erie County Department Representative

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Contractor shall be held to have read all the Bidding Requirements; all of the General Conditions and Supplementary General Conditions and all Divisions of the Technical Specifications before submitting a bid for the proposed work, and in the execution of the work, they will be bound by all of the conditions and requirements therein.

1.02 SCOPE OF WORK

A. ELECTRICAL CONSTRUCTION WORK

1. Electrical Construction Work, including but not limited to,
 - a. Remove existing electrical connection to existing pump station.
 - b. Provide new electric service and distribution equipment and re-feed existing pump station equipment.
 - c. Provide new diesel generator, load bank and isolation bypass switch to provide backup power for the new service.
 - d. Provide all trenching, back fill and site restoration as required to accommodate new electrical work.
 - e. Remove part of existing fencing and extend fence to accommodate the new generator.
 - f. Provide new concrete walkway around new generator and load bank.

B. Contract Documents, dated **April 14th, 2023** were prepared for the Project by:

1. Buffalo Engineering P.C.
4245 Union Road
Suite 204
Buffalo, New York, 14225
(716) 633-5300, Fax: 633-5598

C. The Work will be constructed under single contract as follows:

1. Electrical Construction Contract

D. The scope of All Contracts awarded shall include all general provisions the Contract Specifications, and shall include all provisions of Division 1 of the Technical Specifications unless specifically indicated otherwise. Contractors are responsible for all the General Notes, Abbreviations and Symbols contained throughout ALL Contract Drawings.

E. In addition to these requirements, the scopes of the Prime Contracts shall be divided as follows:

1. Electrical Contract: Unless specifically indicated otherwise, work in the Electrical Prime Contract shall include, but not be limited to the following items:

- a. All work indicated on Drawings E-100 & E-101 and division 26 and 32 specifications.

1.03 CONTRACTORS RESPONSIBILITY

- A. Perform work under this contract in accordance with the contract documents and specifications.
- B. Contractors will be strictly held to the requirements set forth in Section 01 5400 – Security as outlined in the specifications.

1.04 SCHEDULE OF WORK

- A. Milestone Dates: The following dates must be met by all contractors:
 1. Construction Contract
 - a. Anticipated Notice to Proceed July 6, 2023
- B. Hours of Work:
 1. The contractor may work 7:00AM to 5:00PM, Monday thru Friday on this project in accordance with the New York State Labor Laws.

1.06 EXISTING CONDITIONS

- A. The Contractor shall be responsible for having accomplished the following.
 1. The Contractor and each of their subcontractors shall visit the site. They shall have full knowledge as to transportation, disposal, handling and storage of materials, availability of water, electric power and all other facilities in the area which will have a bearing on the performance of their work. The Contractor shall verify all dimensions as shown on the plans and notify the Engineer immediately of any discrepancies found.
 2. Failure by the Contractor to acquaint themselves with all the available information shall not relieve them from any responsibility for performing their work properly, and in accordance with Contract Drawings and Technical Specifications.
- C. The Contractor shall have ascertained pertinent local conditions such as location, accessibility and general character of the project site, the character and extent of existing work within or adjacent to the project site and any work being performed thereon.

1.07 PROTECTIONS

- B. Maintain all safety measures until their removal is directed by the Owner's Representative or the Engineer.
- C. Provide all necessary equipment to support and protect all adjacent structures during construction.
- D. The contractor shall identify all utilities, conduits, pipes and other such obstacles which are encountered during the progress of the work. All piping encountered and not shown on construction drawings which interferes with proposed work shall be immediately reported to the Engineer.

1.08 PROTECTION OF MATERIALS

- A. The Contractor shall be responsible for all materials stored on the project site and all work, until such time that the completed project is accepted by the Owner and/or other agency having interest in the project. The Owner will not be responsible for any vandalism, damage to intrusions on the project site which may cause loss or damage of completed work. It shall be the responsibility of the Contractor to take the necessary precautions to protect said work and materials until such time as final acceptance is made by the Owner and/or their Representatives.

1.09 REMOVAL OF TEMPORARY MATERIALS AND FACILITIES

- A. All temporary construction facilities will remain the property of the Contractor and shall be removed from the premises upon completion of the work, and earlier if so directed by the Owner's Representative.
- B. Adjoining ceilings, wall structures, etc., damaged due to construction and delivery and installation of materials shall be restored to their original condition or replaced by the Contractor at no additional cost to the Owner.

END OF SECTION 01 1000

SECTION 121100 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Unit-cost allowances.
 - 2. Quantity allowances.
 - 3. Contingency allowances.
- C. Related Requirements:
 - 1. Section 012200 "Unit Prices" for procedures for using unit prices.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.4 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.

1.5 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.6 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.7 ALLOWANCES – GENERAL

- A. Use allowances only as directed by the Owner. No items within the base bid scope of work will be paid for through the allowance.
 - 1. Unit prices as included in the proposal form will be used to charge to the allowance as applicable and as directed by the Owner. If no unit price is specified, changes to the base bid scope of work will be handled on a time and material basis as described below provided the additional work is accepted by the Owner.
 - 2. All allowance work will be tracked by the Owner and/ or Architect/ Engineer on a time and material basis. It is expected that the Owner be provided a complete breakdown of all charges against the allowance, separated by labor and material.
- B. Allowances shall be inclusive of all applicable costs associated with executing the work as authorized by the Owner including but not limited to; installation, labor, material, delivery to Project site, startup and turn over to the Owner.
 - 1. The contractor is not permitted to markup any portion of costs as part of an allowance.
 - 2. If construction work as part of an allowance is performed by a sub-contractor to the general contractor, the sub-contractor is permitted to markup the time and material costs by ten (10) percent as described in Section 7.09 of the General Conditions.
- C. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, insurance, equipment rental, and similar costs.
- D. Unused Materials: Turn over unused materials purchased under an allowance to the Owner, after installation has been completed and accepted.
 - 1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

- E. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.
 - 1. Under no circumstances, is the Contractor permitted to exceed the value of the allowance without prior authorization from the Owner. Charges in excess of the allowance threshold may result in incurred costs to the Owner with no requirement by the Owner for reimbursement for the costs in excess of the allowance.
- F. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.

1.8 UNIT-PRICE ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include freight and delivery to Project site.
- B. Allowances will be paid by the unit price provided as part of base bid as shown on the Proposal Form included within the bid submitted by the contractor. No additional markup is permitted on unit prices.
 - 1. If no unit price was included within the bid, the allowance will be treated as a contingency allowance.
- C. All charges against an allowance are subject to the Owner and/ or Architect/ Engineer's review and authorization prior to payment of any allowance.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1: Contingency Allowance: Include a contingency allowance of \$20,000.00 for use according to Owner's written instructions

SECTION 015400 - SECURITY

PART 1 – GENERAL

1.1 REFERENCE

- A. Documents affecting work of this section include but are not necessarily limited to the Agreement, the technical specifications sections and the project drawings.

1.2 RELATED SECTIONS

- A. All technical specification sections.

1.3 SUMMARY

- A. This Work of this Contract may be performed at an Erie County secure detention or correctional facility.
- B. Any reference to “Facility” shall mean a secure detention or correctional facility under Erie County jurisdiction.
- C. Any reference to “Correction Officer” shall mean an Owner designated employee of the Facility, typically a corrections officer.
- D. Any reference to “ID Officer” shall mean an Owner designated employee of the Facility, typically a corrections identification officer.
- E. Any reference to “Tool Security Officer” shall mean an Owner designated employee of the Facility, typically a corrections officer.
- F. Any reference to “Security Officer” shall mean an Owner designated employee of the Facility, typically a corrections identification officer.
- G. Any reference to “Captain” shall mean an Owner designated employee of the Facility, typically a corrections identification officer holding the rank of Captain.
- H. Any reference to the “Contractor” shall mean Contractors, Sub-Contractors, and any/all of their employees.
- I. Any persons other than a Contractor, such as suppliers and equipment manufacturers, must comply with the Facility’s visitor regulations.
- J. Contractors shall comply with and adhere to the Facility’s security regulations and the requirements of this section.
- K. Any Work actions that would constitute a breach of the Facility’s security, in the opinion of the Owner or the Captain, must be addressed and resolved by the Contractor prior to the end of the Work day, to the satisfaction of the Captain.

1.4 SCHEDULING FOR CORRECTION OFFICER COVERAGE

- A. Any time a Contractor is performing Work within the secure perimeter of the Facility, Correction Officer coverage must be provided as deemed appropriate by the Captain.

- B. Notify the Facility at least 24 hours in advance of each day's work activities, regarding the number of crews which will be working, including when and where they will be working.
- C. Any changes from the notified daily Work activities shall make the Contractor liable for any additional costs to the Owner for Correction Officer coverage resulting from these changes.

1.5 SECURITY REGULATIONS

A. BACKGROUND CHECK:

The Work of this contract is being performed at a secure facility. As such, prior to entering the project site and the Facility. Contractor's and Sub-contractors' employees shall have a background check performed, without charge, by the Facility I.D. Officer.

Entry into the project site and Facility by the captioned persons shall be subject to the approval of the Erie County Sheriff's Office.

Anyone deemed inappropriate to enter the project site and Facility or to perform Work in a secure facility, by the Owner or by the Erie County Sheriff's Office, will not be allowed access to the project site and Facility.

Former inmates in the State correctional system, or any County, City, Federal jail, or lockup may not be permitted inside project site and Facility, unless reviewed and approved by the Captain, in consultation with the Facility Superintendent.

B. WORK HOURS:

The Contractor will have access to the site to the Work site, at minimum a full eight hours per day. Should the Contractor desire to in addition to the minimum eight hours, this shall be scheduled with the Facility.

The Contractor shall anticipate an additional one-hour total processing time to enter and exit the Facility per day. The actual time when the Contractor (including truck drivers) may enter and exit the Facility will be established by the Facility.

Employees who are more than 15 minutes late for their scheduled entrance time may be denied entry, with exception of the Construction Superintendent and/or Project Manager.

Employees, other than approved Construction Superintendents, Project Managers and truck drivers will not be allowed to leave the Facility during the workday and will be required to bring their lunches and eat in the work areas.

C. TOOL CHECK IN:

All of the Contractors' employees, tools, materials and vehicles entering a secured area must be checked in and out through an area designated by the Facility.

All Contractors working inside the Facility shall maintain inventories of all tools and other equipment. A copy of the inventory shall be forwarded to the Tool Security Officer. Contractors must notify the Tool Security Officer immediately if a tool is discovered missing.

D. IDENTIFICATION BADGES:

A photo identification badge may be furnished and maintained by the Facility for all Contractors' employees, including Sub-contractors' employees. Additionally, each person entering the Facility may be hand-stamped using the ultraviolet hand-stamping technique to aid in identifying people leaving the Facility.

E. ILLEGAL SUBSTANCES:

Alcoholic beverages or illegal drugs of any kind will not be allowed on Facility premises. Prescription medications must be brought to the attention of the Security Officer upon arrival. A single day supply of prescription medicine will be allowed into the Facility. Persons under the influence of illegal drugs or alcohol will not be allowed into the Facility. Persons under the influence of illegal drugs or alcohol will not be allowed into the Facility and may be permanently removed from the project.

F. WEAPONS:

Firearms, ammunition or other weapons (including mace or pepper spray) will not be allowed in the Facility at any time.

G. CONTACT WITH OCCUPANTS:

Contact, communication, or exchange of any article with Facility inmates is strictly prohibited. Any attempts by inmates to contact or communicate with contractors must be reported immediately to the Security Officer on Duty.

H. EMERGENCY SITUATIONS :

In the event of an emergency of any kind, which may interfere with the welfare or operation and security of the Facility or its personnel, the Facility reserves the right to stop Work for a period of time. During this period, Contractors shall remain in designated areas and shall follow directions of any Correction Officer (s) or Facility Employee(s) on duty.

I. TOOLS AND TOOL CLASSIFICATIONS:

The Contractor shall check tools in out of the Facility and the Work area, through the Tool Security Officer, on a daily basis, The Contractor shall assume all responsibilities for tools checked in. Every tool checked in shall also be checked out on a daily basis.

The Contractor shall store tools authorized as allowed in the Facility and the Work area in approved, locked toolboxes, where directed by the Owner, when not in use.

Certain extremely hazardous tools present a higher risk in a correctional facility setting and must be removed from the Facility daily. These extremely hazardous tools include the following:

1. Bolt Cutters
2. Locksmith tools
3. Powder-activated tools (e.g. ram set, Hilti, etc)
4. Pneumatic nailer.
5. Rescue saws (K-12 type, gasoline or electric)
6. Torches (all cutting-mixing gauges & torch heads).
7. Metal cutting blades and/or disc.

The Tool Security Officer and the Captain will determine if any other tools brought into the Facility should be designated extremely hazardous. If any tool is designated as extremely hazardous, such tools may be required to be removed daily. These may include:

1. HEPA Masks, N-95 Masks, M-17 Protective Masks, self-contained breathing apparatus, respirators, and filters. All disposable respirator masks must be accounted for, inventoried and disposed of properly.

Blueprints are regarded as tools and should be handled accordingly. All blueprints are to be secured, accounted for and turned over to the Facility at the conclusion of the project.

Tool Removal from Work Area: All other tools (those not designated as extremely hazardous) must be removed from all Work areas on a daily basis. If such tools are stored on site, they shall be placed within designated secure storage containers, as directed by the project documents and by the Facility.

J. CONSTRUCTION MATERIALS:

The Contractor shall check construction materials in and out (if appropriate) of the Facility and the Work area, through the Tool Security Officer, on a daily basis.

The Contractor shall assume all responsibilities for material checked in.

Unless approved otherwise by the Owner, all construction materials must be removed from all Work areas on a daily basis.

The Tool Security Officer and the Captain will determine if any construction materials brought into the Facility should be designated extremely hazardous. If any construction material is designated as extremely hazardous, such construction material (if not incorporated into the Work of the project) may be required to be removed daily.

K. ELECTRONIC DEVICES:

Cell Phones:

The possession of cell phones within the perimeter security fences is strictly prohibited.

The use of cell phones outside the perimeter fence is permitted.

Radios:

Radios require approval for use on Facility property by the Captain of Tool Security Officer for a specific task.

If approved, radios must be checked in and out of the Work area on a daily basis by the Tool Security Officer.

Radios must be removed from the Facility on a daily basis.

Radios can not interfere, in any way, with Facility radio systems.

Laptop Computers:

Laptop computers (with or without modems) when necessary for the installation, maintenance, or repair of equipment will be considered for approval in Work areas.

Laptop computers shall be approved for use on Facility property by the Captain or Tool Security Officer.

Laptop computers must be removed from the Facility on a daily basis.

Pagers:

Only those pagers necessary for the Work of the Project will be considered for approval in Work areas.

Pagers shall be approved for use on Facility property by the Captain or Tool Security Officer.

If approved , pagers must be checked in and out of the Work area on a daily basis by the Tool Security Officer.

Pagers must be removed from the Facility on a daily basis.

Cameras:

Only those cameras necessary for the Work of the Project will be considered for approval in Work areas.

Cameras shall be approved for use on Facility property by the Captain or Tool Security Officer.

Cameras must be removed from the Facility on a daily basis.

L. CONTROL OF VEHICLES AND HEAVY EQUIPMENT:

Only vehicles and heavy equipment necessary for the Work of the Project will be considered for approval within the Facility and in Work areas.

Vehicles and heavy equipment shall be approved for use on Facility property by the Captain or Tool Security Officer.

If approved, vehicles and heavy equipment must be checked in and out of the Work area on a daily basis by the Tool Security Officer.

The Contractor shall assume all responsibilities for vehicles and heavy equipment checked in.

Unless approved otherwise by the Tool Security Officer or the Captain, vehicles and heavy equipment must be removed from the Facility on a daily basis.

If approved for storage within the facility, vehicles and heavy equipment shall be stored on in designated areas, as directed by the project documents and by the Facility.

If vehicles and heavy equipment are approved to be stored within the Facility, they shall be disabled in accordance with direction given by the Facility.

All vehicles and heavy equipment left unattended at any time on Facility grounds shall be securely locked from entry and operation. Vehicle locks shall be kept in operating order at all times. No vehicle will be allowed access any other area without proper authorization.

All vehicles and heavy equipment containing any sort of combustible fuel, when left unattended, must be equipped with a locking fuel cap.

M. SCAFFOLDING, HOISTS AND LADDERS:

All scaffolding, ladders and hoists shall be secured by chain and locked to a stationary object when not in use.

All scaffolding, ladders and hoists in use within the secure perimeter of the facility, shall be secured by chain, and locked to a stationary object.

A scaffolding, ladder and hoist inventory (listed by size) used in the work areas shall be maintained by the contractor. This inventory shall be checked on a daily basis by the Tool Security Officer and the Captain.

N. CONSTRUCTION DEBRIS:

The Contractor shall clean the work area of all construction debris on a daily basis.

Any construction debris that, in the opinion of the Tool Security Officer or the Captain, would jeopardize the safety and security of the Facility shall be removed from the facility immediately by the Contractor.

PART 2 – PRODUCTS (Not Used)

PART 3– EXECUTION (Not Used)

END OF SECTION

SECTION 017700 – CLOSEOUT PROCEDURES

PART I – GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.

- B. Related Section:
 - 1. Division 1 Section “Project Record Documents: for submitting Record Drawings, Record Specifications, and Record Product Data.
 - 2. Division 1 Section “Operation and Maintenance Data” for operation and maintenance manual requirements.
 - 3. All Divisions for “Demonstration and Training” for requirements for instructing Owner’s personnel.
 - 4. All Divisions for specific closeout and special cleaning requirements for the Work in those Sections.

1.2 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete with request.
 - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
 - 2. Advise Owner of pending insurance changeover requirements.
 - 3. Submit specific warranties, workmanship bonds. Maintenance service agreements, final certifications, and similar documents.
 - 4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 5. Prepare and submit Project Record Documents, operation and maintenance manual, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 - 6. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer’s name and model number where applicable.
 - 7. Make final changeover
 - 8. Complete startup testing of systems.

9. Submit test/adjust/balance records.
 10. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 11. Advise Owner of changeover in heat and other utilities.
 12. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
 13. Complete final cleaning requirements, including touchup painting.
 14. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.3 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment according to Division 1 Section "Payment Procedures."
 2. Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 3. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 4. Submit pest-control final inspection report and warranty.
 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.4 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 3. Submit list of incomplete items in the following format:
 - a. One electronic copy in Portable Data File (PDF) format provided to the Owner and Architect/ Engineer.

1.5 WARRANTIES

- A. Submittal Time: Submit written warranties per General Conditions of the Contract, specifically Section 4.09, on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.
- B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
1. Bind two sets of warranties and bonds in heavy-duty, 3-ring, vinyl-covered, lose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8 ½ - 11 inch paper.
 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 3. Identify each binder on the front and spine with the typed or printed title “WARRANTIES”, Project name, and name of contractor.
 4. Provide one CD or USB flash drive to contain all scanned warranties and bonds. Assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide table of contents at beginning of document.
- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 - 1. Use cleaning products that meet Green Seal GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 – EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with General Conditions of the Contract, specifically Section 4.08, all local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Remove snow and ice to provide safe access to building.
 - f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - h. Sweep concrete floors broom clean in unoccupied spaces.
 - i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; shampoo if visible soil or stains remain.
 - j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.

- k. Remove labels that are not permanent.
 - l. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - 1. Do not paint over “URL” and other required labels and identification, including mechanical and electrical nameplates
 - m. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - n. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
 - o. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - p. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
 - q. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace burned-out bulbs, and those noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.
 - r. Leave Project clean and ready for occupancy.
- C. Pest Control: Engage an experienced, licensed exterminator to make a final inspection and rid Project of rodents, insects, and other pests. Prepare a report.

END OF SECTION

SECTION 017823 – OPERATIONS AND MAINTENANCE DATA

PART I – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
 - 1. Operation and Maintenance manuals for systems, subsystems, and equipment.
 - 2. Maintenance manuals for the care and maintenance of products, materials, and finishes.
- B. Related Sections include the following:
 - 1. Division 1 Section “Submittal Procedures” for submitting copies of submittals for operation and maintenance manuals.
 - 2. Division 1 Section “Closeout Procedures” for submitting operation and maintenance manuals.
 - 3. All Divisions Sections for specific operation and maintenance manual requirements for products in those Sections.

1.3 DEFINITIONS

- A. System: An organized collection of parts, equipment, or subsystems united by regular interaction
- B. Subsystem: a portion of a system with characteristics similar to a system.

1.4 SUBMITTALS

- A. Final Submittal: Submit each manual in electronic portable data file (pdf) format at least 15 days before final inspection to Architect/ Engineer of Record. Architect/ Engineer will return copy with comments within 15 days after final inspection.
 - 1. Correct or modify each manual to comply with comments provided by Architect/ Engineer. Submit one (1) hard copy and one (1) electronic copy in Portable Data File (pdf) format of the corrected Operation & Maintenance Manual within 15 days of receipt of Architect’s comments for submission to the Owner.

1.5 COORDINATION

- A. Where operation and maintenance documentation includes information on installations by more than one factory-authorized service representative, assemble and coordinate information furnished by representatives and prepare manuals.

PART 2 – PRODUCTS

2.1 MANUAL, GENERAL

- A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following material, in the order listed:
 - 1. Title Page
 - 2. Table of Contents
 - 3. Manual Contents
- B. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:
 - 1. Subject matter included in manual
 - 2. Name and address of Project
 - 3. Name and address of Owner
 - 4. Date of submittal
 - 5. Name, address, and telephone number of Contractor
 - 6. Name and address of Architect
 - 7. Cross-reference to related systems in other operation and maintenance manuals.
- C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the column, and cross-referenced to Specification Section number in Project Manual.
 - 1. If operation or maintenance documentation requires more than one volume to accommodate data, include comprehensive Table of Contents for all volumes in each volume of the set.
- D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystem, equipment, and components of one system into a single binder.
 - 1. Binders: Heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2- by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.

- a. If two or more binders are necessary to accommodate data of a system, organize data in each binder into groupings by subsystem and related components. Cross-reference other binders if necessary to provide essential information for proper operation or maintenance of equipment or system.
- b. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENACE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.
2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software diskettes for computerized electronic equipment.
4. Supplementary Text: Prepared on 8-1/2-by-11-inch, 20-lb/sq.ft. white bond paper.
5. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text
 - a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
 - b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

2.2 OPERATION AND MAINTENACE MANUALS

- A. Content: In addition to requirements in this Section, include operation and maintenance data required in individual Specification Sections and the following information:
 1. System, subsystem, and equipment descriptions
 2. Performance and design criteria if Contractor is delegated design responsibility
 3. Operating standards
 4. Operating procedures
 5. Wiring diagrams
 6. Control diagrams
 7. Piped system diagrams
 8. Precautions against improper use
 9. License requirements including inspection and renewal dates
 10. Warranty information
- B. Descriptions: Include the following:
 1. Product name and model number

2. Manufacturer's name
 3. Equipment identification with serial number of each component
 4. Equipment function
 5. Operating characteristics
 6. Limiting conditions
 7. Performance curves
 8. Engineering data and tests
 9. Complete nomenclature and number of replacement parts
- C. Operating Procedures: Include the following, as applicable:
1. Start-up procedures
 2. Equipment or system break-in procedures
 3. Routine and normal operating instructions
 4. Regulation and control procedures
 5. Instructions on stopping
 6. Normal shutdown instructions
 7. Seasonal and weekend operating instructions
 8. Required sequences for electric or electronic systems
 9. Special operating instructions and procedures
- D. Systems and Equipment Controls: Describe the sequence of operations, and diagram controls as installed.
- E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.
- F. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including the following information for each component part or piece of equipment:
1. Standard printed maintenance instructions and bulletins
 2. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly
 3. Identification and nomenclature of parts and components
 4. List of items recommended to be stocked as spare parts
- G. Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:
1. Test and inspection instructions
 2. Troubleshooting guide
 3. Precautions against improper maintenance
 4. Disassembly; component removal, repair, and replacement; and reassembly instructions

5. Aligning, adjusting, and checking instructions
 6. Demonstration and training videotape, if available
- H. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
1. Scheduled Maintenance and Service: Tabulate actions for daily, weekly, monthly, quarterly, semiannual, and annual frequencies
 2. Maintenance and Service Record: Include manufacturers' forms for recording maintenance
- I. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.
- J. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
- K. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
1. Include procedures to follow and required notifications for warranty claims.
- L. Emergency Instructions: Describe and explain warnings, trouble indications, error messages, and similar codes and signals. Include instructions and procedures for each type of emergency, and responsibilities of Owner's operating personnel for notification of Installer, supplier, and manufacturer to maintain warranties.
1. Include the following, as applicable:
 - a. Instructions on stopping
 - b. Shutdown instructions for each type of emergency
 - c. Operating instructions for conditions outside normal operating limits
 - d. Required sequences for electric or electronic systems
 - e. Special operating instructions and procedures

2.3 PRODUCT MAINTENANCE MANUAL

- A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.

- B. Source Information: List each product included in manual identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

- C. Product Information: Include the following, as applicable:
 - 1. Product name and model number
 - 2. Manufacturer's name
 - 3. Color, pattern, and texture
 - 4. Material and chemical composition
 - 5. Reordering information for specially manufactured products

- D. Maintenance Procedures: Include manufacturer's written recommendations and the following:
 - 1. Inspection procedures
 - 2. Types of cleaning agents to be used and methods of cleaning
 - 3. List of cleaning agents and methods of cleaning detrimental to product
 - 4. Schedule for routine cleaning and maintenance
 - 5. Repair instructions

- E. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

- F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
 - 1. Include procedures to follow and required notifications for warranty claims.

PART 3 – EXECUTION

3.1 MANUAL PREPARATION

- A. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.
 - 1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
 - 2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.

- B. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.

- C. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.
 - 1. Prepare supplementary text if manufacturers' standard printed data are not available and where the information is necessary for proper operation and maintenance of equipment or systems.

- D. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in Record Drawings to ensure correct illustration of completed installation.
 - 1. Do not use original Project Record Documents as part of operation and maintenance manuals.

- E. Comply with Division 1 Section "Closeout Procedures" for the schedule for submitting operation and maintenance documentation.

END OF SECTION

SECTION 017839 – PROJECT RECORD DOCUMENTS

PART I – GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings
 - 2. Record Specifications
 - 3. Record Product Date

- B. Related Sections:
 - 1. Division 1 Section “Operation and Maintenance Data” for operation and maintenance manual requirements.
 - 2. All Divisions for specific requirements for project record documents of the Work in those Sections.

1.2 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit record drawings as follows:
 - a. Initial Submittal: Submit one set of marked-up (red-lined) record prints in electronic portable data file (PDF) format inclusive of all addendum, sketches, work change directives, change orders and field revisions to Architect for review. Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
 - b. Final Submittal: Submit one set of marked-up (red-lined) record prints in electronic portable data file (PDF) format and one set hard paper copy incorporating Architect’s comments to Architect and Owner. Provide each drawing, whether or not changes were applicable to any given specific drawing/ sheet.

- B. Record Specifications: Submit one hard paper copy and electronic portable data file (PDF) format of the Project’s Specifications, including addenda and contract modifications to the Owner and Architect.

PART 2 – PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings.
1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Record data as soon as possible after obtaining it.
 - c. Record and check the markup before enclosing concealed installations.
 2. Mark the Contract Drawings and Shop Drawings completely and accurately. Utilize personnel proficient at recording graphic information in production of marked-up record prints.
 3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same locations.
 4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion and in accordance with Section 1.2 of this specification, review marked-up record prints with Architect and/or Construction Manager. When authorized, prepare a full set of corrected red-lines, as follows:
1. Copies: One (1) electronic copy provided on a CD or USB flash drive in portable data file (PDF) format.
 2. Format: Same digital data software program, version, and operating system as the original Contract Drawings.
 3. Format: Annotated PDF electronic file with comment function enabled.
 4. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
 5. Refer instances of uncertainty to Architect for resolution.
 6. Architect will furnish Contractor one set of digital data files of the Contract Drawings for use in recording information.
- C. Format: Identify and date each record Drawing; include the designation “PROJECT RECORD DRAWING” in a prominent location.

1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
2. Format: Annotated PDF electronic file with comment function enabled.
3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
4. Identification: As follows:
 - a. Project Name
 - b. Date
 - c. Designation "PROJECT RECORD DRAWINGS"
 - d. Name of Architect
 - e. Name of Contractor

2.2 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from the indicated in Specifications, addenda, and contract modifications.
 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
 4. Note related Change Orders and record Drawings where applicable.
- B. Format: submit record Specifications as PDF electronic file.

2.3 RECORD PRODUCT DATA

- A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 3. Note related Change Orders, and record Drawings where applicable.
- B. Format: Submit record Product Data as paper copy within the Operation and Maintenance Manual and one electronic copy in portable data file (pdf) format. .

2.4 MISCELLANEOUS RECORD SUBMITTALS

- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Format; Submit record submittals as paper copy.

PART 3-EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and modifications to project record documents as they occur; do not wait until the end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for contraction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's and Construction Manager's reference during normal working hours.

END OF SECTION

BASIC ELECTRICAL MATERIALS AND METHODS
SECTION 260050

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Supporting devices for electrical components.
 - 2. Electrical identification.
 - 3. Concrete equipment bases.
 - 4. Electrical demolition.
 - 5. Cutting and patching for electrical construction.
 - 6. Touchup painting.
 - 7. Training.
 - 8. System commissioning and testing.

1.3 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. FMC: Flexible metal conduit.
- C. IMC: Intermediate metal conduit.
- D. LFMC: Liquid-tight flexible metal conduit.
- E. RNC: Rigid nonmetallic conduit.

1.4 SUBMITTALS

- A. Shop Drawings: Dimensioned plans and sections or elevation layouts of electricity-metering equipment.
- B. Field Test Reports: Indicate and interpret test results for compliance with performance requirements.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Contractor shall provide U.L. labels as required for all new and existing equipment which will be reworked or modified from it's original condition under this contract.
- C. Comply with NFPA 70.

BASIC ELECTRICAL MATERIALS AND METHODS
SECTION 260050

1.6 COORDINATION

- A. Coordinate chases, slots, inserts, sleeves, and openings with general construction work and arrange in building structure during progress of construction to facilitate the electrical installations that follow.
 - 1. Set inserts and sleeves in poured-in-place concrete, masonry work, and other structural components as they are constructed.
- B. Sequence, coordinate and integrate installing electrical materials and equipment for efficient flow of the Work. Coordinate installing large equipment requiring positioning before closing in the building.
- C. Coordinate location of access panels and doors for electrical items that are concealed by finished surfaces. Access doors and panels are specified in Division 08 Section "Access Doors."
- D. Where electrical identification devices are applied to field-finished surfaces, coordinate installation of identification devices with completion of finished surface.
- E. Where electrical identification markings and devices will be concealed by acoustical ceilings and similar finishes, coordinate installation of these items before ceiling installation.
- F. Coordinate utility service connection to components furnished by utility companies.
 - 1. Coordinate installation and connection of exterior underground and overhead utilities and services, including provision for electricity-metering components.
 - 2. Comply with requirements of authorities having jurisdiction and of utility company providing electrical power and other services.

1.7 EQUIPMENT FOR UTILITY COMPANY'S ELECTRICITY METERING

- A. Current-Transformer Cabinets: Comply with requirements of electrical power utility company.
- B. Meter Sockets: Comply with requirements of electrical power utility company.
- C. Modular Meter Centers: Factory-coordinated assembly of main meter center circuit breaker unit with wireways, tenant meter socket modules, and tenant branch circuit breakers arranged in adjacent vertical sections, complete with interconnecting buses.
 - 1. Housing: NEMA 250, Type 1 and/or Type 3R enclosure as indicated on drawings.
 - 2. Tenant Branch Circuit Breakers: Series combination rated to protect circuit breakers in downstream panelboards that have 10,000-A interrupting capacity, minimum.

1.8 PERMITS

- A. Apply for all required permits associated with the work of the Contract and pay the cost of all associated permitting fees.
- B. Electrical Inspection: Arrange to have the complete electrical installation inspected by an approved Electrical Inspector; pay all fees

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PART 2 - PRODUCTS

2.1 SUPPORTING DEVICES

- A. Material: Cold-formed steel, with corrosion-resistant coating acceptable to authorities having jurisdiction.
- B. Metal Items for Use Outdoors or in Damp Locations: Hot-dip galvanized steel.
- C. Slotted-Steel Channel Supports: Comply with Division 05 Section "Metal Fabrications" for slotted channel framing.
 - 1. Channel Thickness: Selected to suit structural loading.
 - 2. Fittings and Accessories: Products of the same manufacturer as channel supports.
- D. Raceway Supports: Manufactured clevis hangers, riser clamps, straps, threaded C-clamps with retainers, ceiling trapeze hangers, wall brackets, and spring-steel clamps or click-type hangers. Perforated hangers or wire-tie supports are not acceptable. All hangers and supports shall have corrosion resistant finish.
- E. Pipe Sleeves: ASTM A 53, Type E, Grade A, Schedule 40, galvanized steel, plain ends.
- F. Cable Supports for Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug for non-armored electrical cables in riser conduits. Plugs have number and size of conductor gripping holes as required to suit individual risers. Body constructed of malleable-iron casting with hot-dip galvanized finish.
- G. Expansion Anchors: Carbon-steel wedge or sleeve type.
- H. Toggle Bolts: All-steel springhead type.

2.2 ELECTRICAL IDENTIFICATION

- A. Identification Devices: A single type of identification product for each application category. Use colors prescribed by ANSI A13.1, NFPA 70, and these Specifications.
- B. Raceway: Comply with ANSI A13.1, Table 3, for minimum size of letters for legend and minimum length of color field for each raceway and cable size.
 - 1. Type: Pre-tensioned, wraparound plastic sleeves. Flexible, preprinted, color-coded, acrylic band sized to suit the diameter of the item it identifies.
 - 2. Type: Preprinted, flexible, self-adhesive, vinyl. Legend is over-laminated with a clear, weather- and chemical-resistant coating.
 - 3. Color: Black letters on orange background.
 - 4. Legend: Indicates voltage.
- C. Colored Adhesive Marking Tape for Raceways, Wires, and Cables: Self-adhesive vinyl tape, not less than 1 inch wide by 3 mils thick.

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- D. Tape Markers for Wire: Vinyl or vinyl-cloth, self-adhesive, wraparound type with pre-printed numbers and letters.
- E. Color-Coding Cable Ties: Type 6/6 nylon, self-locking type. Colors to suit coding scheme.
- F. Engraved-Plastic Labels, Signs, and Instruction Plates: Engraving stock, melamine plastic laminate punched or drilled for mechanical fasteners 1/16-inch minimum thickness for signs up to 20 sq. in. and 1/8-inch minimum thickness for larger sizes. Engraved legend in black letters on white background.
- G. Interior Warning and Caution Signs: Comply with 29 CFR, Chapter XVII, Part 1910.145. Preprinted, aluminum, baked-enamel-finish signs, punched or drilled for mechanical fasteners, with colors, legend, and size appropriate to the application.
- H. Fasteners for Nameplates and Signs: Self-tapping, stainless-steel screws or No. 10/32 stainless-steel machine screws with nuts and flat and lock washers.

2.3 CONCRETE BASES

- A. Concrete Forms and Reinforcement Materials: As specified in Division 03 Section 033000 "Cast-in-Place Concrete."
- B. Concrete: 3000-psi (20.7-MPa), 28-day compressive strength as specified in Division 03 Section 033000 "Cast-in-Place Concrete."

2.4 TOUCHUP PAINT

- A. For Equipment: Equipment manufacturer's paint selected to match installed equipment finish.
- B. Galvanized Surfaces: Zinc-rich paint recommended by item manufacturer.

PART 3 - EXECUTION

3.1 ELECTRICAL EQUIPMENT INSTALLATION

- A. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide the maximum possible headroom.
- B. Materials and Components: Install level, plumb, and parallel and perpendicular to other building systems and components, unless otherwise indicated.
- C. Equipment: Install to facilitate service, maintenance, and repair or replacement of components. Connect for ease of disconnecting, with minimum interference with other installations.
- D. Right of Way: Give to raceways and piping systems installed at a required slope.

BASIC ELECTRICAL MATERIALS AND METHODS
SECTION 260050

3.2 ELECTRICAL SUPPORTING DEVICE APPLICATION

- A. Damp Locations and Outdoors: Hot-dip galvanized materials or nonmetallic, U-channel system components.
- B. Dry Locations: Steel materials.
- C. Selection of Supports: Comply with manufacturers written instructions.
- D. Strength of Supports: Adequate to carry present and future loads, times a safety factor of at least four; minimum of 200-lb (90-kg) design load.

3.3 SUPPORT INSTALLATION

- A. Install support devices to securely and permanently fasten and support electrical components.
- B. Install individual and multiple raceway hangers and riser clamps to support raceways. Provide U-bolts, clamps, attachments, and other hardware necessary for hanger assemblies and for securing hanger rods and conduits.
- C. Support parallel runs of horizontal raceways together on trapeze- or bracket-type hangers.
- D. Size supports for multiple raceway installations so capacity can be increased by a 25 percent minimum in the future.
- E. Support individual horizontal raceways with separate, malleable-iron pipe hangers or clamps.
- F. Install 1/4-inch-diameter or larger threaded steel hanger rods, unless otherwise indicated.
- G. Arrange supports in vertical runs so the weight of raceways and enclosed conductors is carried entirely by raceway supports, with no weight load on raceway terminals.
- H. Simultaneously install vertical conductor supports with conductors.
- I. Separately support cast boxes that are threaded to raceways and used for fixture support. Support sheet-metal boxes directly from the building structure or by bar hangers. If bar hangers are used, attach bar to raceways on opposite sides of the box and support the raceway with an approved fastener not more than 24 inches from the box.
- J. Install metal channel racks for mounting cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices unless components are mounted directly to structural elements of adequate strength.
- K. Install sleeves for cable and raceway penetrations of concrete slabs and walls unless core-drilled holes are used. Install sleeves for cable and raceway penetrations of masonry and fire-rated gypsum walls and of all other fire-rated floor and wall assemblies. Install sleeves during erection of concrete and masonry walls.

BASIC ELECTRICAL MATERIALS AND METHODS
SECTION 260050

- L. Securely fasten electrical items and their supports to the building structure, unless otherwise indicated. Perform fastening according to the following unless other fastening methods are indicated:
 - 1. Wood: Fasten with wood screws or screw-type nails.
 - 2. Masonry: Toggle bolts on hollow masonry units and expansion bolts on solid masonry units.
 - 3. New Concrete: Concrete inserts with machine screws and bolts.
 - 4. Existing Concrete: Expansion bolts.
 - 5. Steel: Welded threaded studs or spring-tension clamps on steel.
 - 6. Welding to steel structure may be used only for threaded studs, not for conduits, pipe straps, or other items.
 - 7. Light Steel: Sheet-metal screws.
 - 8. Fasteners: Select so the load applied to each fastener does not exceed 25 percent of its proof-test load.

3.4 IDENTIFICATION MATERIALS AND DEVICES

- A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
- B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
- C. Self-Adhesive Identification Products: Clean surfaces before applying.
- D. Identify raceways and cables with color banding as follows:
 - 1. Bands: Pre-tensioned, snap-around, colored plastic sleeves or colored adhesive marking tape. Make each color band 2 inches wide, completely encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
 - 2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
 - 3. Colors: As follows:
 - a. Fire Alarm System: Red.
- E. Tag and label circuits designated to be extended in the future. Identify source and circuit numbers in each cabinet, pull and junction box, and outlet box. Color-coding may be used for voltage and phase identification.
- F. Tag and label feeder and branch circuits. Identify source and circuit numbers including ground conductors in each cabinet, pull and junction box, outlet box. Color-coding may be used for voltage and phase identification.
- G. Color-code 208/120-V system secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:
 - 1. Phase A: Black.
 - 2. Phase B: Red.
 - 3. Phase C: Blue.

BASIC ELECTRICAL MATERIALS AND METHODS
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3.5 FIRESTOPPING

- A. Apply firestopping to cable and raceway penetrations of fire-rated floor and wall assemblies to achieve fire-resistance rating of the assembly. Install through-penetration fire-stop systems to comply with firestop system manufacturer's written installation instructions and published drawings for products and applications indicated.
- B. Install forming/damming/backing materials and other accessories of types required to support fill materials during their application and in the position needed to produce cross-sectional shapes and depths required to achieve fire ratings indicated.
 - 1. After installing fill materials, remove combustible forming materials and other accessories not indicated as permanent components of firestop systems.
- C. Install fill materials for firestop systems by proven techniques to produce the following results:
 - 2. Fill voids and cavities formed by openings, forming materials, accessories, and penetrating items as required to achieve fire-resistance ratings indicated.
 - 3. Apply materials so they contract and adhere to substrates formed by openings and penetrating items.
 - 4. For fill materials that will remain exposed after completing Work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.

3.6 CONCRETE BASES

- A. Construct concrete bases of dimensions indicated, but not less than 4 inches larger, in both directions, than supported unit. Follow supported equipment manufacturer's anchorage recommendations and setting templates for anchor-bolt and tie locations, unless otherwise indicated. Use 3000-psi (20.7-MPa), 28-day compressive-strength concrete and reinforcement as specified in Division 03 Section 033000 "Cast-in-Place Concrete."

3.7 DEMOLITION

- A. Protect existing electrical equipment and installations indicated to remain. If damaged or disturbed in the course of the Work, remove damaged portions and install new products of equal capacity, quality, and functionality.
- B. Accessible Work: Remove exposed electrical equipment and installations, indicated to be demolished, in their entirety.
- C. Abandoned Work: Cut and remove buried raceway and wiring, indicated to be abandoned in place, 2 inches below the surface of adjacent construction. Cap raceways and patch surface to match existing finish.
- D. Remove demolished material from Project site.
- E. Remove, store, clean, reinstall, reconnect, and make operational components indicated for relocation.

BASIC ELECTRICAL MATERIALS AND METHODS
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3.8 CUTTING AND PATCHING

- A. Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces required to permit electrical installations. Perform cutting by skilled mechanics of trades involved.
- B. Repair and refinish disturbed finish materials and other surfaces to match adjacent undisturbed surfaces. Install new fireproofing where existing firestopping has been disturbed. Repair and refinish materials and other surfaces by skilled mechanics of trades involved.

3.9 FIELD QUALITY CONTROL

- A. Inspect installed components for damage and faulty work, including the following:
 - 1. Supporting devices for electrical components.
 - 2. Electrical identification.
 - 3. Electricity-metering components.
 - 4. Concrete bases.
 - 5. Cutting and patching for electrical construction.
 - 6. Touchup painting.

3.10 REFINISHING AND TOUCHUP PAINTING

- A. Refinish and touch up paint. Paint materials and application requirements are specified in Division 09 Section "Painting."
 - 1. Clean damaged and disturbed areas and apply primer, intermediate, and finish coats to suit the degree of damage at each location.
 - 2. Follow paint manufacturer's written instructions for surface preparation and for timing and application of successive coats.
 - 3. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
 - 4. Repair damage to PVC or paint finishes with matching touchup coating recommended by manufacturer.

3.11 CLEANING AND PROTECTION

- A. On completion of installation, including outlets, fittings, and devices, inspect exposed finish. Remove burrs, dirt, paint spots, and construction debris.
- B. Protect equipment and installations and maintain conditions to ensure that coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.

3.12 TRAINING

- A. Prior to acceptance of all systems and equipment, the contractor, along with his sub-contractors and vendors, shall instruct and train the owner's representatives on the operation and maintenance of all aspects of the new systems. Owner shall be given ample time to schedule training dates and personnel. Training sessions shall be given at intervals of 4 hours long. Training literature for startup procedures and maintenance shall be included in the O&M Manuals.

BASIC ELECTRICAL MATERIALS AND METHODS
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3.13 SYSTEM COMMISSIONING AND TESTING

- A. Prior to completion and acceptance of new or renovated areas, all electrical installations and systems shall be tested, balanced and operated to demonstrate to the Owner or his representative and Architect/Engineer that the installation and performance of each electrical system conforms to the requirements of the drawings and specifications.
- B. Tests of electrical system shall be made as equipment and shall include a run under full load (or a reasonable overload) long enough to determine that no excessive heat will be developed at terminal points, switches, and other points of installation.
- C. A written report of performance tests on the specific electrical systems and equipment shall be supplied to the Owner. Such tests shall show compliance with the governing codes regulations.
- D. Engage a certified International Electrical Testing Association (NETA) inspector to inspect and certify compliance upon completion of work. All electrical installations and products used on this project shall comply with the National Electrical Manufacturer's Association (NEMA) and the National Electrical Code (NEC).

END OF SECTION 260050

CONDUCTORS AND CABLES
SECTION 260519

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Conductors and Cables.
 - 2. Connectors and Splices.
 - 3. Sleeves.
 - 4. Sleeve Seals.

1.3 DEFINITIONS

- A. EPDM: Ethylene-propylene-diene terpolymer rubber.
- B. NBR: Acrylonitrile-butadiene rubber.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

1.6 COORDINATION

- A. Set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

PART 2 - PRODUCTS

2.1 CONDUCTORS AND CABLES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. American Insulated Wire Corp.; a Leviton Company.
 - 2. General Cable Corporation.
 - 3. Senator Wire & Cable Company.
 - 4. Southwire Company.
 - 5. AFC American Cable Systems.

CONDUCTORS AND CABLES
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- B. Copper Conductors: Comply with NEMA WC 70.
- C. Conductor Insulation: Comply with NEMA WC 70 for Types THW, THHN-2-THWN-2, XHHW-2, UF, USE and SO.
- D. Multiconductor Cable: Comply with NEMA WC 70 for metal-clad cable, Type MC with ground wire.

2.2 CONNECTORS AND SPLICES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. AFC Cable Systems, Inc.
 - 2. Hubbell Power Systems, Inc.
 - 3. O-Z/Gedney; EGS Electrical Group LLC.
 - 4. 3M; Electrical Products Division.
 - 5. Tyco Electronics Corp.
- B. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

2.3 SLEEVES FOR CABLES

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- C. Sleeves for Rectangular Openings: Galvanized sheet steel with minimum 0.052 or 0.138 inch thickness and of length to suit application.
- D. Coordinate sleeve selection and application of firestopping specified in Division 07 Section "Through-Penetration Firestop Systems."

2.4 SLEEVE SEALS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Advance Products & Systems, Inc.
 - 2. Calpico, Inc.
 - 3. Metraflex Co.
 - 4. Pipeline Seal and Insulator, Inc.

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SECTION 260519

- B. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and cable.
 - 1. Sealing Elements: EPDM NBR interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
 - 2. Pressure Plates: Carbon steel. Include two for each sealing element.
 - 3. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

PART 3 - EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS

- A. Feeders: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- B. Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

3.2 CONDUCTOR INSULATION APPLICATIONS AND WIRING METHODS

- A. Service Entrance: Type THHN-2-THWN-2, single conductors in raceway or Type XHHW-2, single conductors in raceway.
- B. Exposed Feeders: Type THHN-2-THWN-2, single conductors in raceway.
- C. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspace: Type THHN-2-THWN-2, single conductors in raceway
- D. Feeders Concealed in Concrete, below Slabs-on-grade, and Underground: Type THHN-2-THWN-2, single conductors in raceway.
- E. Exposed Branch Circuits, Including in Crawlspace: Type THHN-2-THWN-2, single conductors in raceway.
- F. Branch circuits concealed in ceiling, walls, and partitions: Type THHN-2-THWN-2 single conductor in raceway.
- G. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-2-THWN-2, single conductors in raceway.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

- A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.
- B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.

CONDUCTORS AND CABLES SECTION 260519

- D. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.
- E. Support cables according to Division 26 Section "Electrical Supports and Seismic Restraints."
- F. Identify and color-code conductors and cables according to Division 26 Section 260553 "Identification for Electrical Systems."

3.4 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.
- B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.
 - 1. Use oxide inhibitor in each splice and tap conductor for aluminum conductors.
- C. Wiring at Outlets: Install conductor at each outlet, with at least 6 inches of slack.

3.5 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 07 Section 078413 "Through-Penetration Firestop Systems."
- B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
- D. Rectangular Sleeve Minimum Metal Thickness:
 - 1. For sleeve rectangle perimeter less than 50 inches and no side greater than 16 inches, thickness shall be 0.052 inch.
 - 2. For sleeve rectangle perimeter equal to, or greater than, 50 inches and 1 or more sides equal to, or greater than, 16 inches, thickness shall be 0.138 inch.
- E. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- F. Cut sleeves to length for mounting flush with both wall surfaces.
- G. Extend sleeves installed in floors 2 inches above finished floor level.
- H. Size pipe sleeves to provide ¼-inch annular clear space between sleeve and cable unless sleeve seal is to be installed.
- I. Seal space outside of sleeves with grout for penetrations of concrete and masonry and with approved joint compound for gypsum board assemblies.

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- J. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and cable, using joint sealant appropriate for size, depth, and location of joint according to Division 07 Section 079200 "Joint Sealants."
- K. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at cable penetrations. Install sleeves and seal with firestop materials according to Division 07 Section 078413 "Through-Penetration Firestop Systems."
- L. Roof-Penetration Sleeves: Seal penetration of individual cables with flexible boot-type flashing units applied in coordination with roofing work.
- M. Aboveground Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Size sleeves to allow for 1 inch annular clear space between pipe and sleeve for installing mechanical sleeve seals.
- N. Underground Exterior-Wall Penetrations: Install cast-iron "wall pipes" for sleeves. Size sleeves to allow for 1 inch annular clear space between cable and sleeve for installing mechanical sleeve seals.

3.6 SLEEVE-SEAL INSTALLATION

- A. Install to seal underground exterior-wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for cable material and size. Position cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.7 FIRESTOPPING

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly according to Division 07 Section 078413 "Through-Penetration Firestop Systems."

3.8 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.
- B. Tests and Inspections:
 - 1. After installing conductors and cables and before electrical circuitry has been energized, test service entrance and feeder conductors, and conductors feeding the following critical equipment and services for compliance with requirements.
 - 2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
 - 3. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each splice in cables and conductors No. 3 AWG and larger. Remove box and equipment covers so splices are accessible to portable scanner.
 - 4. Record of Infrared Scanning: Prepare a certified report that identifies splices checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

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- C. Test Reports: Prepare a written report to record the following:
1. Test procedures used.
 2. Test results that comply with requirements.
 3. Test results that do not comply with requirements and corrective action taken to achieve compliance with requirements.
- D. Remove and replace malfunctioning units and retest as specified above.

END OF SECTION 260519

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
SECTION 260526

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. All grounding shall be in strict accordance with the NEC Article 250.
- B. A building grounding system shall be provided with methods and materials in accordance with applicable codes and standards and able to limit potential differences between grounding conductors, raceways and enclosures. The complete building grounding system will consist of the following:
 - 1. Facility Grounding: A central point of ground shall be provided for bonding the electrical service ground, signal grounding, building steel grounding and outdoor pad mount transformer grounding.
 - 2. Signal Grounding: Sub points of grounding shall be provided for bonding all electronic equipment in the Telephone and Computer Rooms.
 - 3. Piping System Grounding: Bonding of all metallic piping systems in the building (fire protection, water, gas, air, hydraulic, etc.) to the facility ground.
 - 4. Equipment Grounding: Grounding conductor path provided for interconnection of non-current carrying parts of electrical equipment and fixtures.
 - 5. Panelboard Grounding: Bonding jumper from raceway grounding bushing to panelboard ground bus.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with UL 467 for grounding and bonding materials and equipment.
- C. All grounding shall be in strict accordance with NEC Article 250.

PART 2 - PRODUCTS

2.1 CONDUCTORS

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.

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SECTION 260526

B. Bare Copper Conductors:

1. Solid Conductors: ASTM B 3.
2. Stranded Conductors: ASTM B 8.
3. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch in diameter.
4. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
5. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches wide and 1/16 inch thick.

C. Grounding Bus: Rectangular bars of annealed copper, 1/4 by 2 inches in cross section, unless otherwise indicated; with insulators.

2.2 CONNECTORS

A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.

B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.

1. Pipe Connectors: Clamp type, sized for pipe.

C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and where permanently sealed.

2.3 GROUNDING ELECTRODES

A. Ground Rods: Copper-clad; 3/4 inch by 10 feet in diameter.

PART 3 - EXECUTION

3.1 APPLICATIONS

A. Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger, unless otherwise indicated.

B. Underground Grounding Conductors: Install insulated copper conductor, No. 2/0 AWG minimum.

1. Bury at least 24 inches below grade.
2. Duct-Bank Grounding Conductor: Bury 12 inches above duct bank when indicated as part of duct-bank installation.

C. Isolated Grounding Conductors: Green-colored insulation with continuous yellow stripe. On feeders with isolated ground, identify grounding conductor where visible to normal inspection, with alternating bands of green and yellow tape, with at least three bands of green and two bands of yellow.

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
SECTION 260526

- D. Grounding Bus: Install in telephone and computer equipment rooms and elsewhere as indicated.
 - 1. Install bus on insulated spacers 1 inch, minimum, from wall 6 inches above finished floor, unless otherwise indicated.
- E. Conductor Terminations and Connections:
 - 1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
 - 2. Underground Connections: Welded connectors, except at test wells and as otherwise indicated.
 - 3. Connections to Ground Rods: Bolted connectors.
 - 4. Connections to Structural Steel: Bolted connectors and beam clamps.

3.2 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with all feeders and branch circuits.
- B. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
 - 1. Feeders and branch circuits.
 - 2. Lighting circuits.
 - 3. Receptacle circuits.
 - 4. Single-phase motor and appliance branch circuits.
 - 5. Three-phase motor and appliance branch circuits.
 - 6. Flexible raceway runs.
 - 7. Armored and metal-clad cable runs.
 - 8. Busway Supply Circuits: Install insulated equipment grounding conductor from grounding bus in the switchgear, switchboard, or distribution panel to equipment grounding bar terminal on busway.
 - 9. Computer and Rack-Mounted Electronic Equipment Circuits: Install insulated equipment grounding conductor in branch-circuit runs from equipment-area power panels and power-distribution units.
 - 10. Transformer Enclosures.
- C. Isolated Equipment Enclosure Circuits: For designated equipment supplied by a branch circuit or feeder, isolate equipment enclosure from supply circuit raceway with a nonmetallic raceway fitting listed for the purpose. Install fitting where raceway enters enclosure, and install a separate insulated equipment grounding conductor. Isolate conductor from raceway and from panelboard grounding terminals. Terminate at equipment grounding conductor terminal of the applicable derived system or service, unless otherwise indicated.
- D. Signal and Communication Equipment: For telephone, alarm, voice and data, and other communication equipment, provide No. 4 AWG minimum insulated grounding conductor in raceway from grounding electrode system to each service location, terminal cabinet, wiring closet, and central equipment location.
 - 1. Service and Central Equipment Locations and Wiring Closets: Terminate grounding conductor on a 1/4-by-2-by-12-inch grounding bus.
 - 2. Terminal Cabinets: Terminate grounding conductor on cabinet grounding terminal.

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- E. Metal Poles Supporting Outdoor Lighting Fixtures: Install grounding electrode and a separate insulated equipment grounding conductor in addition to grounding conductor installed with branch-circuit conductors.

3.3 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
- B. Ground Rods: Drive rods until tops are 2 inches below finished floor or final grade, unless otherwise indicated.
 - 1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
 - 2. For grounding electrode system, install at least three rods spaced at least one-rod length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- C. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.
 - 1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
 - 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
 - 3. Use exothermic-welded connectors for permanently concealed ground connections.
- D. Grounding and Bonding for Piping:
 - 1. Connect grounding conductors to main metal water service pipes, using a bolted clamp connector or by bolting a lug-type connector to a pipe flange, using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
 - 2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
 - 3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.
- E. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.
- F. Grounding for Steel Building Structures: Install a driven ground rod at base of each corner column and at intermediate exterior columns at distances not more than 60 feet apart.

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- G. Concrete-Encased Grounding Electrode (Ufer Ground): Fabricate according to NFPA 70; using electrically conductive coated steel reinforcing bars or rods, at least 20 feet long. If reinforcing is in multiple pieces, connect together by the usual steel tie wires or exothermic welding to create the required length.

3.4 FIELD QUALITY CONTROL

- A. Make the following tests in each of the above listed areas. All testing shall be recorded and certified to the satisfaction of the Owner and Architect/Engineer. The testing agency shall certify that the entire grounding system complies with these specifications and the reference NFPA standards listed.

1. Test the following:
 - a. Test the polarity of each receptacle. Correct any connections found to be incorrect.
 - b. The continuity of the grounding circuit in each electrical receptacle shall be verified.
 - c. The retention force of the grounding blade of each receptacle shall be tested to be not less than 115 grams.
 - d. Megger the insulation of the grounding conductor and the neutral conductor from ground and from each other.
 - e. Measure the potential between the grounding pole of one receptacle and the grounding pole of all other receptacles. The measured potential shall not exceed 10 millivolts with the electrical system both energized and de-energized.
 - f. Measure the potential difference between the room reference ground point and all other exposed conductive surfaces with the patient area. The measured potential shall not exceed 20 millivolts with the electrical system both energized and de-energized.
 - g. Measure the resistance between the room reference ground point and all other exposed conductive surfaces required to be grounded and the ground pole of receptacles using a conductivity meter having an open circuit voltage of less than 500 MV RMS or 1.4 DC or peak to peak. The greatest acceptable resistance is 0.1 ohms.
2. The Contractor shall correct any and all deficiencies found and have them retested for acceptance.
3. All testing shall be accomplished in the presence of the Owner's representative.

END OF SECTION 260526

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
SECTION 260533

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.

1.3 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. ENT: Electrical nonmetallic tubing.
- C. FMC: Flexible metal conduit.
- D. LFMC: Liquidtight flexible metal conduit.
- E. LFNC: Liquidtight flexible nonmetallic conduit.
- F. RNC: Rigid nonmetallic conduit.

1.4 SUBMITTALS

- A. Product Data: For surface raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.
- B. Shop Drawings: For the following raceway components. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Custom enclosures and cabinets.
 - 2. For manholes, handholes and boxes for underground wiring, including the following:
 - a. Duct entry provisions, including locations and duct sizes.
 - b. Frame and cover design.
 - c. Grounding details.
 - d. Dimensioned locations of cable rack inserts, and pulling-in and lifting irons.
 - e. Joint details.
- C. Coordination Drawings: Conduit routing plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
 - 1. Structural members in the paths of conduit groups with common supports.
 - 2. HVAC and plumbing items and architectural features in the paths of conduit groups with common supports.
- D. Source quality-control test reports.

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
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1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 METAL CONDUIT AND TUBING

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. AFC Cable Systems, Inc.
 - 2. Alflec Inc.
 - 3. Allied Tube & Conduit; a Tyco International Ltd. Co.
 - 4. Anamet Electrical, Inc.; Anaconda Metal Hose.
 - 5. Electri-Flex Co.
 - 6. Manhattan/CDT/Cole-Flex.
 - 7. Maverick Tube Corporation.
 - 8. O-Z Gedney; a unit of General Signal.
 - 9. Wheatland Tube Company.
- B. Rigid Steel Conduit: ANSI C80.1.
- C. PVC-Coated Steel Conduit: PVC-coated rigid steel conduit.
 - 1. Comply with NEMA RN 1.
 - 2. Coating Thickness: 0.040 inch, minimum.
- D. EMT: ANSI C80.3.
- E. LFMC: Flexible steel conduit with PVC jacket.
- F. Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable: NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.
 - 1. Fittings for EMT: Steel set-screw type.
 - 2. Coating for Fittings for PVC-Coated Conduit: Minimum thickness, 0.040 inch, with overlapping sleeves protecting threaded joints.
- G. Joint Compound for Rigid Steel Conduit or IMC: Listed for use in cable connector assemblies, and compounded for use to lubricate and protect threaded raceway joints from corrosion and enhance their conductivity.

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
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2.2 NONMETALLIC CONDUIT AND TUBING

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. AFC Cable Systems, Inc.
 2. Anamet Electrical, Inc.; Anaconda Metal Hose.
 3. Arnco Corporation.
 4. CANTEX Inc.
 5. CertainTeed Corp.; Pipe & Plastics Group.
 6. Condux International, Inc.
 7. ElecSYS, Inc.
 8. Electri-Flex Co.
 9. Lamson & Sessions; Carlon Electrical Products.
 10. Manhattan/CDT/Cole-Flex.
 11. RACO; a Hubbell Company.
 12. Thomas & Betts Corporation.
- B. ENT: NEMA TC 13.
- C. RNC: NEMA TC 2, Type EPC-40-PVC, unless otherwise indicated.
- D. LFNC: UL 1660.
- E. Fittings for ENT and RNC: NEMA TC 3; match to conduit or tubing type and material.
- F. Fittings for LFNC: UL 514B.

2.3 METAL WIREWAYS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Cooper B-Line, Inc.
 2. Hoffman.
 3. Square D; Schneider Electric.
- B. Description: Sheet metal sized and shaped as indicated, NEMA 250, Type 1 for indoor use and 3R for outdoor use, unless otherwise indicated.
- C. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.
- D. Wireway Covers: Screw-cover type.
- E. Finish: Manufacturer's standard enamel finish.

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
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2.4 NONMETALLIC WIREWAYS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Hoffman.
 - 2. Lamson & Sessions; Carlon Electrical Products.
- B. Description: Fiberglass polyester, extruded and fabricated to size and shape indicated, with no holes or knockouts. Cover is gasketed with oil-resistant gasket material and fastened with captive screws treated for corrosion resistance. Connections are flanged, with stainless-steel screws and oil-resistant gaskets.
- C. Description: PVC plastic, extruded and fabricated to size and shape indicated, with snap-on cover and mechanically coupled connections with plastic fasteners.
- D. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.

2.5 SURFACE RACEWAYS

- A. Surface Metal Raceways: Galvanized steel with snap-on covers. Manufacturer's standard enamel finish in color selected by Architect.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Thomas & Betts Corporation.
 - b. Walker Systems, Inc.; Wiremold Company (The).
 - c. Wiremold Company (The); Electrical Sales Division.
- B. Surface Nonmetallic Raceways: Two-piece construction, manufactured of rigid PVC with texture and color selected by Architect from manufacturer's standard colors.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Butler Manufacturing Company; Walker Division.
 - b. Enduro Systems, Inc.; Composite Products Division.
 - c. Hubbell Incorporated; Wiring Device-Kellems Division.
 - d. Lamson & Sessions; Carlon Electrical Products.
 - e. Panduit Corp.
 - f. Walker Systems, Inc.; Wiremold Company (The).
 - g. Wiremold Company (The); Electrical Sales Division.

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
SECTION 260533

2.6 BOXES, ENCLOSURES, AND CABINETS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Cooper Crouse-Hinds; Div. of Cooper Industries, Inc.
 2. EGS/Appleton Electric.
 3. Erickson Electrical Equipment Company.
 4. Hoffman.
 5. Hubbell Incorporated; Killark Electric Manufacturing Co. Division.
 6. O-Z/Gedney; a unit of General Signal.
 7. RACO; a Hubbell Company.
 8. Robroy Industries, Inc.; Enclosure Division.
 9. Scott Fetzer Co.; Adalet Division.
 10. Spring City Electrical Manufacturing Company.
 11. Thomas & Betts Corporation.
 12. Walker Systems, Inc.; Wiremold Company (The).
 13. Woodhead, Daniel Company; Woodhead Industries, Inc. Subsidiary.
- B. Sheet Metal Outlet and Device Boxes: NEMA OS 1.
- C. Cast-Metal Outlet and Device Boxes: NEMA FB 1, ferrous alloy, Type FD, with gasketed cover.
- D. Nonmetallic Outlet and Device Boxes: NEMA OS 2.
- E. Metal Floor Boxes: Cast metal, fully adjustable, rectangular.
- F. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- G. Cast-Metal Access, Pull, and Junction Boxes: NEMA FB 1, cast aluminum with gasketed cover.
- H. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous-hinge cover with flush latch, unless otherwise indicated.
1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
 2. Nonmetallic Enclosures: Plastic, finished inside with radio-frequency-resistant paint.
- I. Cabinets:
1. NEMA 250, Type 1, galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
 2. Hinged door in front cover with flush latch and concealed hinge.
 3. Key latch to match panelboards.
 4. Metal barriers to separate wiring of different systems and voltage.
 5. Accessory feet where required for freestanding equipment.

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2.7 MANHOLES, HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND WIRING

A. Description: Comply with SCTE 77.

1. Color of Frame and Cover: Green.
2. Configuration: Units shall be designed for flush burial and have integral closed bottom, unless otherwise indicated.
3. Cover: Weatherproof, secured by tamper-resistant locking devices and having structural load rating consistent with enclosure.
4. Cover Finish: Nonskid finish shall have a minimum coefficient of friction of 0.50.
5. Cover Legend: Molded lettering, "ELECTRIC." as indicated for each service.
6. Conduit Entrance Provisions: Conduit-terminating fittings shall mate with entering ducts for secure, fixed installation in enclosure wall.
7. Manholes/Handholes 12 inches wide by 24 inches long and larger shall have inserts for cable racks and pulling-in irons installed before concrete is poured.

B. Polymer-Concrete Manholes/Handholes and Boxes with Polymer-Concrete Cover: Molded of sand and aggregate, bound together with polymer resin, and reinforced with steel or fiberglass or a combination of the two.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Quazite
 - b. Kistner Concrete Products, Inc.
 - c. CDR Systems Corporation.

2.8 SOURCE QUALITY CONTROL FOR UNDERGROUND ENCLOSURES

A. Handhole and Pull-Box Prototype Test: Test prototypes of handholes and boxes for compliance with SCTE 77. Strength tests shall be for specified tier ratings of products supplied.

1. Tests of materials shall be performed by an independent testing agency.
2. Strength tests of complete boxes and covers shall be by either an independent testing agency or manufacturer. A qualified registered professional engineer shall certify tests by manufacturer.
3. Testing machine pressure gages shall have current calibration certification complying with ISO 9000 and ISO 10012, and traceable to NIST standards.

PART 3 - EXECUTION

3.1 RACEWAY APPLICATION

A. Outdoors: Apply raceway products as specified below, unless otherwise indicated:

1. Exposed Conduit: Rigid steel conduit.
2. Concealed Conduit, Aboveground: Rigid steel conduit.
3. Underground Conduit: Rigid Steel Conduit or Type EPC-80-PVC,.
4. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
5. Boxes and Enclosures, Aboveground: NEMA 250, Type 3R.

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6. Application of Handholes and Boxes for Underground Wiring:
 - a. Handholes and Pull Boxes in Driveway, Parking Lot, and Off-Roadway Locations, Subject to Occasional, Nondeliberate Loading by Heavy Vehicles: Polymer concrete, SCTE 77, Tier 15 structural load rating.
 - B. Comply with the following indoor applications, unless otherwise indicated:
 1. Exposed, Not Subject to Physical Damage: EMT.
 2. Exposed, Not Subject to Severe Physical Damage: EMT.
 3. Exposed and Subject to Severe Physical Damage: Rigid steel conduit. Includes raceways in the following locations:
 - a. Crawl spaces.
 - b. Mechanical rooms.
 4. Concealed in Ceilings and Interior Walls and Partitions: EMT.
 5. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.
 6. Damp or Wet Locations: Rigid steel conduit.
 7. Boxes and Enclosures: NEMA 250, Type 1, except use NEMA 250, Type 4, stainless steel in damp or wet locations.
 - C. Minimum Raceway Size: 1/2-inch trade size.
 - D. Raceway Fittings: Compatible with raceways and suitable for use and location.
 1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.
 2. PVC Externally Coated, Rigid Steel Conduits: Use only fittings listed for use with that material. Patch and seal all joints, nicks, and scrapes in PVC coating after installing conduits and fittings. Use sealant recommended by fitting manufacturer.
 - E. Install nonferrous conduit or tubing for circuits operating above 60 Hz. Where aluminum raceways are installed for such circuits and pass through concrete, install in nonmetallic sleeve.
 - F. Do not install aluminum conduits in contact with concrete.
- 3.2 INSTALLATION
- A. Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.
 - B. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.
 - C. Complete raceway installation before starting conductor installation.
 - D. Support raceways as specified in Division 26 Section 260050 "Basic Electrical Materials and Methods."

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- E. Arrange stub-ups so curved portions of bends are not visible above the finished slab.
- F. Install no more than the equivalent of three 90-degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.
- G. Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.
- H. Raceways Embedded in Slabs:
 - 1. Run conduit larger than 1-inch trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.
 - 2. Arrange raceways to cross building expansion joints at right angles with expansion fittings.
 - 3. Change from ENT to RNC, Type EPC-40-PVC, rigid steel conduit, or IMC before rising above the floor.
- I. Threaded Conduit Joints, Exposed to Wet, Damp, Corrosive, or Outdoor Conditions: Apply listed compound to threads of raceway and fittings before making up joints. Follow compound manufacturer's written instructions.
- J. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than No. 4 AWG.
- K. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 12 inches of slack at each end of pull wire.
- L. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:
 - 1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
 - 2. Where otherwise required by NFPA 70.
- M. Expansion-Joint Fittings for RNC: Install in each run of aboveground conduit that is located where environmental temperature change may exceed 30 deg F, and that has straight-run length that exceeds 25 feet.
 - 1. Install expansion-joint fittings for each of the following locations, and provide type and quantity of fittings that accommodate temperature change listed for location:
 - a. Outdoor Locations Not Exposed to Direct Sunlight: 125 deg F temperature change.
 - b. Outdoor Locations Exposed to Direct Sunlight: 155 deg F temperature change.
 - c. Indoor Spaces: Connected with the Outdoors without Physical Separation: 125 deg F temperature change.

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
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2. Install fitting(s) that provide expansion and contraction for at least 0.00041 inch per foot of length of straight run per deg F of temperature change.
3. Install each expansion-joint fitting with position, mounting, and piston setting selected according to manufacturer's written instructions for conditions at specific location at the time of installation.

N. Flexible Conduit Connections: Use maximum of 72 inches of flexible conduit for recessed and semirecessed lighting fixtures, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.

1. Use LFMC in damp or wet locations subject to severe physical damage.

O. Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall.

P. Set metal floor boxes level and flush with finished floor surface.

3.3 INSTALLATION OF UNDERGROUND HANDHOLES AND BOXES

A. Install handholes and boxes level and plumb and with orientation and depth coordinated with connecting conduits to minimize bends and deflections required for proper entrances.

B. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1/2-inch sieve to No. 4 sieve and compacted to same density as adjacent undisturbed earth.

C. Elevation: In paved areas, set so cover surface will be flush with finished grade. Set covers of other enclosures 1 inch above finished grade.

D. Install handholes and boxes with bottom below the frost line, below grade.

E. Install removable hardware, including pulling eyes, cable stanchions, cable arms, and insulators, as required for installation and support of cables and conductors and as indicated. Select arm lengths to be long enough to provide spare space for future cables, but short enough to preserve adequate working clearances in the enclosure.

F. Field-cut openings for conduits according to enclosure manufacturer's written instructions. Cut wall of enclosure with a tool designed for material to be cut. Size holes for terminating fittings to be used, and seal around penetrations after fittings are installed.

3.4 PROTECTION

A. Provide final protection and maintain conditions that ensure coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.

1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
2. Repair damage to PVC or paint finishes with matching touchup coating recommended by manufacturer.

END OF SECTION 260533

IDENTIFICATION FOR ELECTRICAL SYSTEMS
SECTION 260553

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Identification for conductors and communication and control cable.
 - 2. Underground-line warning tape.
 - 3. Warning labels and signs.
 - 4. Equipment identification labels.

1.3 QUALITY ASSURANCE

- A. Comply with ANSI A13.1 and ANSI C2.
- B. Comply with NFPA 70.
- C. Comply with 29 CFR 1910.145.

1.4 COORDINATION

- A. Coordinate identification names, abbreviations, colors, and other features with requirements in the Contract Documents, Shop Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual, and with those required by codes, standards, and 29 CFR 1910.145. Use consistent designations throughout Project.
- B. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.
- C. Coordinate installation of identifying devices with location of access panels and doors.
- D. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 CONDUCTOR AND COMMUNICATION- AND CONTROL-CABLE IDENTIFICATION MATERIALS

- A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils thick by 1 to 2 inches wide.
- B. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.

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2.2 UNDERGROUND-LINE WARNING TAPE

- A. Description: Permanent, detectable three layer laminate, with printed polyolefin film, solid aluminum-foil core and clear protective film, bright-colored, continuous-printed, red tape.
 - 1. Not less than 6 inches wide by 5 mils thick w/ foil core thickness of 0.35 mil.
 - 2. Compounded for permanent direct-burial service.
 - 3. Printed legend shall indicate type of underground line.

2.3 WARNING LABELS AND SIGNS

- A. Comply with NFPA 70 and 29 CFR 1910.145.
- B. Self-Adhesive Warning Labels: Factory printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment, unless otherwise indicated.

2.4 EQUIPMENT IDENTIFICATION LABELS

- A. Adhesive Film Label: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch.
- B. Self-Adhesive, Engraved, Laminated Acrylic or Melamine Label: Adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Accessible Raceways and Cables of Auxiliary Systems: Identify the following systems with color-coded, self-adhesive vinyl tape applied in color coding or spray paint bands:
 - 1. Fire Alarm System: Red.
 - 2. Fire-Suppression Supervisory and Control System: Red and yellow.
 - 3. Security System: Blue.
- B. Branch-Circuit Conductor Identification: Where there are conductors for more than three branch circuits in same junction or pull box, use color-coding conductor tape. Identify each ungrounded conductor according to source and circuit number or mark circuit information in black marker on outlet box cover.
- C. Locations of Underground Lines: Identify with underground-line warning tape for power, lighting, communication, and control wiring and optical fiber cable. Install underground-line warning tape for both direct-buried cables and cables in raceway.

IDENTIFICATION FOR ELECTRICAL SYSTEMS
SECTION 260553

- D. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and Operation and Maintenance Manual. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.
1. Labeling Instructions:
 - a. Indoor Equipment: Adhesive film label or Adhesive film label with clear protective overlay or Self-adhesive, engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2-inch-high letters on 1-1/2-inch-high label; where 2 lines of text are required, use labels 2 inches high.
 2. Equipment to Be Labeled:
 - a. Panelboards, electrical cabinets, and enclosures.
 - b. Access doors and panels for concealed electrical items.
 - c. Emergency system boxes and enclosures.
 - d. Disconnect switches.
 - e. Enclosed circuit breakers.
 - f. Push-button stations.
 - g. Power transfer equipment.
 - h. Contactors.
 - i. Fire-alarm control panel and annunciators.
 - j. Security and intrusion-detection control stations, control panels, terminal cabinets, and racks.
 - k. Monitoring and control equipment.
 - l. Terminals, racks, and patch panels for security and intrusion detection and for signal and control functions.

3.2 INSTALLATION

- A. Verify identity of each item before installing identification products.
- B. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.
- C. Apply identification devices to surfaces that require finish after completing finish work.
- D. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.
- E. Attach non-adhesive signs and plastic labels with screws and auxiliary hardware appropriate to the location and substrate.
- F. System Identification Color Banding for Raceways and Cables: Each color band shall completely encircle cable or conduit. Place adjacent bands of two-color markings in contact, side by side. Locate bands at changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.

IDENTIFICATION FOR ELECTRICAL SYSTEMS
SECTION 260553

- G. Color-Coding for Phase and Voltage Level Identification, 600 V and Less: Use the colors listed below for ungrounded service, feeder, and branch-circuit conductors.
1. Color shall be field applied.
 2. Colors for 208/120-V Circuits:
 - a. Phase A: Black.
 - b. Phase B: Red.
 - c. Phase C: Blue.
 3. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- H. Underground-Line Warning Tape: During backfilling of trenches install continuous underground-line warning tape directly above line at 6 to 8 inches below finished grade. Use multiple tapes where width of multiple lines installed in a common trench or concrete envelope exceeds 16 inches overall.
- I. Painted Identification: Prepare surface and apply paint according to Division 9 painting Sections.

END OF SECTION 260553

OVERCURRENT PROTECTIVE DEVICE COORDINATION/ARC FLASH ANALYSIS
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PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Provide the applicable input data to tabulate and support the Coordination/ARC Flash Study. Provide relevant equipment submittals and actual field installed conditions including but not limited to the following:
 - 1. As-built of the electrical distribution system one-line diagram.
 - 2. Circuit breaker and the fuse ratings and types.
 - 3. Transformer electrical characteristics, impedance, and X/R ratios.
 - 4. Generator electrical characteristics and source impedance.
 - 5. Cable information of type, rating, and length.
- B. This Section includes computer-based, fault-current and overcurrent protective device coordination studies. Protective devices shall be set based on results of the protective device coordination study.
 - 1. Coordination of series-rated devices is permitted where indicated on Drawings.
 - 2. Preliminary Protective Device Coordination Study- submit a preliminary study with proposed new electrical equipment (panelboards, switchboards, etc.) submittal packages to ensure all equipment selections are coordinated prior to purchase of equipment.
 - 3. Final Protective Device Coordination Study – provide copy of complete study for final review after approval of electrical equipment (panelboards, switchboards, etc.). Incorporate any comments made from the review of the preliminary study.
- C. Provide Arc Flash Hazard Analysis Study per NFPA 70E – Standard for Electrical Safety in the Workplace, reference Article 130.3 and Annex D.

1.3 SUBMITTALS

- A. Product Data: For computer software program to be used for studies.
- B. Product Certificates: For coordination-study and fault-current-study computer software programs, certifying compliance with IEEE 399.
- C. Other Action Submittals: The following submittals shall be made after the approval process for system protective devices has been completed.
 - 1. Coordination-study input data, including completed computer program input data sheets.

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2. Study and Equipment Evaluation Reports.
3. Preliminary Protective Device Coordination Study Report
4. Final Protective Device Coordination Study Report.
5. Recommended Protective Device Settings.
6. Arc Flash Hazard Report.

1.4 QUALITY ASSURANCE

- A. Studies shall use computer programs that are distributed nationally and are in wide use. Software algorithms shall comply with requirements of standards and guides specified in this Section. Manual calculations are not acceptable.
- B. Coordination-Study Specialist Qualifications: An entity experienced in the application of computer software used for studies, having performed successful studies of similar magnitude on electrical distribution systems using similar devices.
 1. Professional engineer, licensed in the state where Project is located, shall be responsible for the study. All elements of the study shall be performed under the direct supervision and control of engineer.
- C. Comply with IEEE 242 for short-circuit currents and coordination time intervals.
- D. Comply with IEEE 399 for general study procedures.
- E. Comply with IEEE 1584 for Arc Flash Hazard Analysis procedure.

PART 2 - PRODUCTS – Not Applicable

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine Project overcurrent protective device submittals for compliance with electrical distribution system coordination requirements and other conditions affecting performance. Devices to be coordinated are indicated on Drawings.
 1. Proceed with coordination study only after relevant equipment submittals have been assembled. Overcurrent protective devices that have not been submitted and approved prior to coordination study may not be used in study.

3.2 POWER SYSTEM DATA

- A. Gather and tabulate the following input data to support coordination study:

OVERCURRENT PROTECTIVE DEVICE COORDINATION/ARC FLASH ANALYSIS
SECTION 260573

1. Product Data for overcurrent protective devices specified in other Division 26 Sections and involved in overcurrent protective device coordination studies. Use equipment designation tags that are consistent with electrical distribution system diagrams, overcurrent protective device submittals, input and output data, and recommended device settings.
2. Impedance of utility service entrance.
3. Electrical Distribution System Diagram: In hard-copy and electronic-copy formats, showing the following:
 - a. Circuit-breaker and fuse-current ratings and types.
 - b. Relays and associated power and current transformer ratings and ratios.
 - c. Transformer kilovolt amperes, primary and secondary voltages, connection type, impedance, and X/R ratios.
 - d. Generator kilovolt amperes, size, voltage, and source impedance.
 - e. Cables: Indicate conduit material, sizes of conductors, conductor material, insulation, and length.
 - f. Busway ampacity and impedance.
 - g. Motor horsepower and code letter designation according to NEMA MG 1.
4. Data sheets to supplement electrical distribution system diagram, cross-referenced with tag numbers on diagram, showing the following:
 - a. Special load considerations, including starting inrush currents and frequent starting and stopping.
 - b. Transformer characteristics, including primary protective device, magnetic inrush current, and overload capability.
 - c. Motor full-load current, locked rotor current, service factor, starting time, type of start, and thermal-damage curve.
 - d. Generator thermal-damage curve.
 - e. Ratings, types, and settings of utility company's overcurrent protective devices.
 - f. Special overcurrent protective device settings or types stipulated by utility company.
 - g. Time-current-characteristic curves of devices indicated to be coordinated.
 - h. Manufacturer, frame size, interrupting rating in amperes rms symmetrical, ampere or current sensor rating, long-time adjustment range, short-time adjustment range, and instantaneous adjustment range for circuit breakers.
 - i. Manufacturer and type, ampere-tap adjustment range, time-delay adjustment range, instantaneous attachment adjustment range, and current transformer ratio for overcurrent relays.
 - j. Panelboards, switchboards, motor-control center ampacity, and interrupting rating in amperes rms symmetrical.

3.3 FAULT-CURRENT STUDY

- A. Calculate the maximum available short-circuit current in amperes rms symmetrical at circuit-breaker positions of the electrical power distribution system. The calculation

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shall be for a current immediately after initiation and for a three-phase bolted short circuit at each of the following:

1. Switchgear and switchboard bus.
 2. Medium-voltage controller.
 3. Motor-control center.
 4. Distribution panelboard.
 5. Branch circuit panelboard.
- B. Study electrical distribution system from normal and alternate power sources throughout electrical distribution system for Project. Include studies of system-switching configurations and alternate operations that could result in maximum fault conditions.
- C. Calculate momentary and interrupting duties on the basis of maximum available fault current.
- D. Calculations to verify interrupting ratings of overcurrent protective devices shall comply with IEEE 141, IEEE 241 and IEEE 242.
1. Transformers:
 - 1) ANSI C57.12.10.
 - 2) ANSI C57.12.22.
 - 3) ANSI C57.12.40.
 - 4) IEEE C57.12.00.
 - 5) IEEE C57.96.
 2. Medium-Voltage Circuit Breakers: IEEE C37.010.
 3. Low-Voltage Circuit Breakers: IEEE 1015 and IEEE C37.20.1.
 4. Low-Voltage Fuses: IEEE C37.46.
- E. Study Report:
1. Show calculated X/R ratios and equipment interrupting rating (1/2-cycle) fault currents on electrical distribution system diagram.
 2. Show interrupting (5-cycle) and time-delayed currents (6 cycles and above) on medium- voltage breakers as needed to set relays and assess the sensitivity of overcurrent relays.
- F. Equipment Evaluation Report:
1. For 600-V overcurrent protective devices, ensure that interrupting ratings are equal to or higher than calculated 1/2-cycle symmetrical fault current.
 2. For devices and equipment rated for asymmetrical fault current, apply multiplication factors listed in the standards to 1/2-cycle symmetrical fault current.
 3. Verify adequacy of phase conductors at maximum three-phase bolted fault currents; verify adequacy of equipment grounding conductors and grounding electrode conductors at maximum ground-fault currents. Ensure that short-circuit

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withstand ratings are equal to or higher than calculated 1/2-cycle symmetrical fault current.

3.4 COORDINATION STUDY

- A. Submit a preliminary study with proposed new electrical equipment (panelboards, switchboards, etc.) submittal packages to ensure all equipment selections are coordinated prior to purchase of equipment.
- B. Perform coordination study using approved computer software program. Prepare a written report using results of fault-current study. Comply with IEEE 399.
 - 1. Calculate the maximum and minimum 1/2-cycle short-circuit currents.
 - 2. Calculate the maximum and minimum interrupting duty (5 cycles to 2 seconds) short-circuit currents.
 - 3. Calculate the maximum and minimum ground-fault currents.
- C. Comply with IEEE 141, IEEE 241 and IEEE 242 recommendations for fault currents and time intervals.
- D. Transformer Primary Overcurrent Protective Devices:
 - 1. Device shall not operate in response to the following:
 - a. Inrush current when first energized.
 - b. Self-cooled, full-load current or forced-air-cooled, full-load current, whichever is specified for that transformer.
 - c. Permissible transformer overloads according to IEEE C57.96 if required by unusual loading or emergency conditions.
 - 2. Device settings shall protect transformers according to IEEE C57.12.00, for fault currents.
- E. Motors served by voltages more than 600 V shall be protected according to IEEE 620.
- F. Conductor Protection: Protect cables against damage from fault currents according to ICEA P-32-382, ICEA P-45-482, and conductor melting curves in IEEE 242. Demonstrate that equipment withstands the maximum short-circuit current for a time equivalent to the tripping time of the primary relay protection or total clearing time of the fuse. To determine temperatures that damage insulation, use curves from cable manufacturers or from listed standards indicating conductor size and short-circuit current.
- G. Coordination-Study Report: Prepare a written report indicating the following results of coordination study:
 - 1. Tabular Format of Settings Selected for Overcurrent Protective Devices:
 - a. Device tag.

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- b. Relay-current transformer ratios; and tap, time-dial, and instantaneous-pickup values.
 - c. Circuit-breaker sensor rating; and long-time, short-time, and instantaneous settings.
 - d. Fuse-current rating and type.
 - e. Ground-fault relay-pickup and time-delay settings.
2. Coordination Curves: Prepared to determine settings of overcurrent protective devices to achieve selective coordination. Graphically illustrate that adequate time separation exists between devices installed in series, including power utility company's upstream devices. Prepare separate sets of curves for the switching schemes and for emergency periods where the power source is local generation. Show the following information:
- a.
 - b. Device tag.
 - b. Voltage and current ratio for curves.
 - c. Three-phase and single-phase damage points for each transformer.
 - d. No damage, melting, and clearing curves for fuses.
 - e. Cable damage curves.
 - f. Transformer inrush points.
 - g. Maximum fault-current cutoff point.
- H. Completed data sheets for setting of overcurrent protective devices.

3.5 ARC FLASH HAZARD ANALYSIS

- A. The arc flash hazard analysis shall be performed according to the IEEE 1584 equations that are presented in NFPA70E, Annex D.
- B. When appropriate, the short circuit calculations and the clearing times of the phase overcurrent devices will be retrieved from the short-circuit and coordination study model. Alternative methods shall be presented in the proposal.
- C. The flash protection boundary and the incident energy shall be calculated at all significant locations in the electrical distribution system (switchboards, switchgear, motor-control centers, panelboards, busway and splitters) where work could be performed on energized parts.
- D. The Arc-Flash Hazard Analysis shall include all electrical equipment locations in MV, 480v, 240 volt and 208 volt systems.
- E. Safe working distances shall be specified for calculated fault locations based upon the calculated arc flash boundary considering an incident energy of 1.2 cal/cm².

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- F. The Arc Flash Hazard analysis shall include calculations for maximum and minimum contributions of fault current magnitude. The minimum calculation shall assume that the utility contribution is at a minimum and shall assume a minimum motor load. Conversely, the maximum calculation shall assume a maximum contribution from the utility and shall assume motors to be operating under full-load conditions.
- G. Arc flash computation shall include both line and load side of main breaker calculations, where necessary.
- H. Arc Flash calculations shall be based on actual overcurrent protective device clearing time. Maximum clearing time will be capped at 2 seconds based on IEEE 1584-2018 section B.1.2.

3.6 ARC FLASH REPORT SECTIONS

- A. Incident energy and flash protection boundary calculations.
 - a. Arcing fault magnitude
 - b. Device clearing time
 - c. Duration of arc
 - d. Arc flash boundary
 - e. Working distance
 - f. Incident energy
 - g. Hazard Risk Category
 - h. Recommendations for arc flash energy reduction

3.7 FIELD ADJUSTMENT

- A. Adjust relay and protective device settings according to the recommended settings table provided by the coordination study. Field adjustments to be completed by the engineering service division of the equipment manufacturer under the Startup and Acceptance Testing contract portion.
- B. Make minor modifications to equipment as required to accomplish conformance with short circuit and protective device coordination studies.
- C. Notify Owner in writing of any required major equipment modifications.
- D. Following completion of all studies, acceptance testing and startup by the field engineering service division of the equipment manufacturer, a 2-year warranty shall be provided on all components manufactured by the engineering service parent manufacturing company.

3.8 ARC FLASH WARNING LABELS

- A. The vendor shall provide a 3.5 in. x 5 in. thermal transfer type label of high adhesion polyester for each work location analyzed.

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- B. The label shall have an orange header with the wording, "WARNING, ARC FLASH HAZARD", and shall include the following information:
 - 1. Location designation
 - 2. Nominal voltage
 - 3. Flash protection boundary
 - 4. Hazard risk category
 - 5. Incident energy
 - 6. Working distance
 - 7. Engineering report number, revision number and issue date
 - 8. Required PPE
- C. Labels shall be machine printed, with no field markings
- D. Arc flash labels shall be provided in the following manner and all labels shall be based on recommended overcurrent device settings.
 - 1. For each 600, 480 and applicable 208 volt panelboards and disconnects, one arc flash label shall be provided
 - 2. For each motor control center, one arc flash label shall be provided
 - 3. For each low voltage switchboard, one arc flash label shall be provided
 - 4. For each switchgear, one flash label shall be provided
 - 5. For medium voltage switches one arc flash label shall be provided
- E. Labels shall be field installed by the engineering service division of the equipment manufacturer under the Startup and Acceptance Testing contract portion.

3.9 ARC FLASH TRAINING

- A. The equipment vendor shall train personnel of the potential arc flash hazards associated with working on energized equipment (minimum of 4 hours). Maintenance procedures in accordance with the requirements of NFPA 70E, Standard For Electrical Safety Requirements For Employee Workplaces, shall be provided in the equipment manuals. The training shall be certified for continuing education units (CEUs) by the International Association for Continuing Education Training (IACET).

END OF SECTION 260573

PANELBOARDS
SECTION 262416

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes load centers and panelboards, overcurrent protective devices, and associated auxiliary equipment rated 600 V and less for the following types:
 - 1. Lighting and appliance branch-circuit panelboards.
 - 2. Distribution panelboards.
 - 3. Load Centers.

1.3 SUBMITTALS

- A. Product Data: For each type of panelboard, overcurrent protective device, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: For each panelboard and related equipment.
 - 1. Dimensioned plans, elevations, sections, and details. Show tabulations of installed devices, equipment features, and ratings. Include the following:
 - a. Enclosure types and details for types other than NEMA 250, Type 1.
 - b. Bus configuration, current, and voltage ratings.
 - c. Short-circuit current rating of panelboards and overcurrent protective devices.
 - d. Features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
 - 2. Wiring Diagrams: Diagram power, signal, and control wiring and differentiate between manufacturer-installed and field-installed wiring.
- C. Field Test Reports: Submit written test reports and include the following:
 - 1. Test procedures used.
 - 2. Test results that comply with requirements.
 - 3. Results of failed tests and corrective action taken to achieve test results that comply with requirements.
- D. Panelboard Schedules: For installation in panelboards. Submit final versions after load balancing.

PANELBOARDS
SECTION 262416

- E. Maintenance Data: For panelboards and components to include in maintenance manuals specified in Division 01. In addition to requirements specified in Division 01 Section "Contract Closeout," include the following:
 - 1. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
 - 2. Time-current curves, including selectable ranges for each type of overcurrent protective device.

1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NEMA PB 1.
- C. Comply with NFPA 70.

1.5 COORDINATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, and encumbrances to workspace clearance requirements.

1.6 EXTRA MATERIALS

- A. Keys: Six spares of each type of panelboard cabinet lock.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
 - a. Eaton Corp.; Cutler-Hammer Products.
 - b. General Electric.
 - c. Square D Co.

PANELBOARDS
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2.2 FABRICATION AND FEATURES

- A. Enclosures: Flush- and surface-mounted cabinets. NEMA PB 1, Type 3R to meet environmental conditions at installed location.
- B. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover (door-in-door option).
- C. Finish: Manufacturer's standard enamel finish over corrosion-resistant treatment or primer coat.
- D. Directory Card: With transparent protective cover, mounted inside metal frame, inside panelboard door.
- E. Bus: Hard-drawn copper, 98 percent conductivity.
- F. Main and Neutral Lugs: Mechanical type suitable for use with conductor material.
- G. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment ground conductors; bonded to box.
- H. Future Devices: Mounting brackets, bus connections, and necessary appurtenances required for future installation of devices.
- I. Isolated Equipment Ground Bus: Adequate for branch-circuit equipment ground conductors; insulated from box.
- J. Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
- K. Gutter Barrier: Arrange to isolate individual panel sections.
- L. Feed-through Lugs: Mechanical type suitable for use with conductor material. Locate at opposite end of bus from incoming lugs or main device.

2.3 PANELBOARD SHORT-CIRCUIT RATING

- A. Fully rated to interrupt symmetrical short-circuit current available at terminals.

2.4 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- B. Doors: Front mounted with concealed hinges; secured with flush latch with tumbler lock; keyed alike. Include door-in-door option.

PANELBOARDS
SECTION 262416

2.5 DISTRIBUTION PANELBOARDS

- A. Doors: Front mounted, except omit in fused-switch panelboards; secured with vault-type latch with tumbler lock; keyed alike. Include door-in-door option.
- B. Main Overcurrent Protective Devices: Circuit breaker.
- C. Branch overcurrent protective devices shall be one of the following:
 - 1. For Circuit-Breaker Frame Sizes 125 A and Smaller: Bolt-on circuit breakers.
 - 2. For Circuit-Breaker Frame Sizes Larger Than 125 A: Bolt-on circuit breakers; plug-in circuit breakers where individual positive-locking device requires mechanical release for removal.

2.6 LOAD CENTERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Eaton Electrical Inc.; Cutler Hammer Business Unit.
 - 2. General Electric Company; GE Consumer & Industrial – Electrical Distribution.
 - 3. Siemens Energy & Automation, Inc.
 - 4. Square D; a brand of Schneider Electric.
- B. Load Centers: Comply with UL 67.
- C. Mains: Circuit Breaker.
- D. Branch Overcurrent Protective Devices: Plug-in circuit breakers, replaceable without disturbing adjacent units.
- E. Conductor Connectors: Mechanical type for main, neutral, and ground lugs and buses.

2.7 OVERCURRENT PROTECTIVE DEVICES

- A. Molded-Case Circuit Breaker: NEMA AB 1, with interrupting capacity to meet available fault currents.
 - 1. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 100 A and larger.
 - 2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
 - 3. GFCI Circuit Breakers: Single- and two-pole configurations with 5-mA trip sensitivity.

PANELBOARDS
SECTION 262416

- B. Molded-Case Circuit-Breaker Features and Accessories. Standard frame sizes, trip ratings, and number of poles.
 - 1. Lugs: Mechanical style, suitable for number, size, trip ratings, and material of conductors.
 - 2. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HACR for heating, air-conditioning, and refrigerating equipment.
 - 3. Ground-Fault Protection: Integrally mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
 - 4. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.

- C. Electronic trip circuit breakers with rms sensing; field-replaceable rating plug or field-replicable electronic trip for circuit breakers 250A and larger and all life safety distribution breakers; and the following field-adjustable settings:
 - a. Instantaneous trip.
 - b. Long- and short-time pickup levels.
 - c. Long- and short-time time adjustments.
 - d. Ground-fault pickup level, time delay, and I²t response.

2.8 ACCESSORY COMPONENTS AND FEATURES

- A. Fungus Proofing: Permanent fungicidal treatment for panelboard interior, including overcurrent protective devices and other components.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install panelboards and accessories according to NEMA PB 1.1.
- B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
- C. Mounting: Plumb and rigid without distortion of box. Mount recessed panelboards with fronts uniformly flush with wall finish.
- D. Circuit Directory: Create a directory to indicate installed circuit loads after balancing panelboard loads. Obtain approval before installing. Use a computer or typewriter to create directory; handwritten directories are not acceptable.
- E. Install filler plates in unused spaces.

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- F. Provision for Future Circuits at Flush Panelboards: Stub four 1-inch (27-GRC) empty conduits from panelboard into accessible ceiling space or space designated to be ceiling space in the future. Stub four 1-inch (27-GRC) empty conduits into raised floor space or below slab not on grade.
- G. Wiring in Panelboard Gutters: Arrange conductors into groups and bundle and wrap with wire ties after completing load balancing.

3.2 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs as specified in Division 26 Section 260050 "Basic Electrical Materials and Methods."
- B. Panelboard Nameplates: Label each panelboard with engraved metal or laminated-plastic nameplate mounted with corrosion-resistant screws.

3.3 CONNECTIONS

- A. Install equipment grounding connections for panelboards with ground continuity to main electrical ground bus.
- B. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

3.4 FIELD QUALITY CONTROL

- A. Prepare for acceptance tests as follows:
 - 1. Test insulation resistance for each panelboard bus, component, connecting supply, feeder, and control circuit.
 - 2. Test continuity of each circuit.
- B. Testing: After installing panelboards and after electrical circuitry has been energized, demonstrate product capability and compliance with requirements.
 - 1. Procedures: Perform each visual and mechanical inspection and electrical test indicated in NETA ATS, Section 7.5 for switches and Section 7.6 for molded-case circuit breakers. Certify compliance with test parameters.
 - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
- C. Balancing Loads: After Substantial Completion, but not more than 60 days after Final Acceptance, measure load balancing and make circuit changes as follows:
 - 1. Measure as directed during period of normal system loading.
 - 2. Perform load-balancing circuit changes outside normal occupancy/working schedule of the facility and at time directed. Avoid disrupting critical 24-hour services such as fax machines and on-line data-processing, computing, transmitting, and receiving equipment.
 - 3. After circuit changes, recheck loads during normal load period. Record all load readings before and after changes and submit test records.

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4. Tolerance: Difference exceeding 20 percent between phase loads, within a panelboard, is not acceptable. Rebalance and recheck as necessary to meet this minimum requirement.
- D. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each panelboard. Remove panel fronts so joints and connections are accessible to portable scanner.
1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each panelboard 11 months after date of Substantial Completion.
 2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
 3. Record of Infrared Scanning: Prepare a certified report that identifies panelboards checked and describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.5 ADJUSTING

- A. Set field-adjustable switches and circuit breaker trip ranges.

3.6 CLEANING

- A. On completion of installation, inspect interior and exterior of panelboards. Remove paint splatters and other spots. Vacuum dirt and debris; do not use compressed air to assist in cleaning. Repair exposed surfaces to match original finish.

END OF SECTION 262416

WIRING DEVICES
SECTION 262726

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Receptacles, receptacles with integral GFCI, and associated device plates.
 - 2. Tamper-resistant receptacles.
 - 3. Weather-resistant receptacles.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Receptacles for Owner-Furnished Equipment: Match plug configurations.
 - 2. Cord and Plug Sets: Match equipment requirements.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: List of legends and description of materials and process used for premarking wall plates.

1.5 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For wiring devices to include in all manufacturers' packing-label warnings and instruction manuals that include labeling conditions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Cooper Wiring Devices, Inc.; Division of Cooper Industries, Inc.
 - 2. Hubbell Incorporated; Wiring Device-Kellems.
 - 3. Leviton Manufacturing Co., Inc.
 - 4. Pass & Seymour/LeGrand (Pass & Seymour).

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- B. Source Limitations: Obtain each type of wiring device and associated wall plate from single source from single manufacturer.

2.2 GENERAL WIRING-DEVICE REQUIREMENTS

- A. Wiring Devices, Components, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.
- C. Devices that are manufactured for use with modular plug-in connectors may be substituted under the following conditions:
 - 1. Connectors shall comply with UL 2459 and shall be made with stranding building wire.
 - 2. Devices shall comply with the requirements in this Section.

2.3 STRAIGHT-BLADE RECEPTACLES

- A. Tamper-Resistant Heavy Duty Grade Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 Configuration 5-20R, UL 498 Supplement sd, and FS W-C-596.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hubbell Incorporated; Wiring Device-Kellems
 - b. Leviton Manufacturing Co., Inc.;
 - c. Pass & Seymour/Legrand (Pass & Seymour);
 - d. Cooper Wiring Devices

2.4 GFCI RECEPTACLES

- A. General Description:
 - 1. Straight blade, feed with non-feed-through type.
 - 2. Comply with NEMA WD 1, NEMA WD 6, UL 498, UL 943 Class A, and FS W-C-596.
 - 3. Include indicator light that shows when the GFCI has malfunctioned and no longer provides proper GFCI protection.
- B. Tamper-Resistant GFCI Heavy Duty Grade Duplex Convenience Receptacles, 125 V, 20 A:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hubbell Incorporated; Wiring Device-Kellems series
 - b. Pass & Seymour/Legrand (Pass & Seymour)
 - c. Leviton Manufacturing Co., Inc.
 - d. Cooper Wiring Devices

WIRING DEVICES SECTION 262726

2.5 WALL PLATES

- A. Single and combination types to match corresponding wiring devices.
 - 1. Plate-Securing Screws: Metal with head color to match plate finish.
 - 2. Material for Finished Spaces: 0.035-inch thick, satin-finished stainless steel.
 - 3. Material for Unfinished Spaces: Galvanized steel.
 - 4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in "wet locations."
- B. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with Type 3R, weather-resistant die-cast aluminum with lockable cover.

2.6 FINISHES

- A. Device Color:
 - 1. Wiring Devices Connected to Normal Power System: As selected by Architect unless otherwise indicated or required by NFPA 70 or device listing.
 - 2. Wiring Devices Connected to Emergency Power System: Red.
- B. Wall Plate Color: For plastic covers, match device color.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with NECA 1, including mounting heights listed in that standard, unless otherwise indicated.
- B. Coordination with Other Trades:
 - 1. Protect installed devices and their boxes. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of boxes.
 - 2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
 - 3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
 - 4. Install wiring devices after all wall preparation, including painting, is complete.
- C. Conductors:
 - 1. Do not strip insulation from conductors until right before they are spliced or terminated on devices.
 - 2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
 - 3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.

WIRING DEVICES
SECTION 262726

4. Existing Conductors:
 - a. Cut back and pigtail, or replace all damaged conductors.
 - b. Straighten conductors that remain and remove corrosion and foreign matter.
 - c. Pigtailing existing conductors is permitted, provided the outlet box is large enough.

D. Device Installation:

1. Replace devices that have been in temporary use during construction and that were installed before building finishing operations were complete.
2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
4. Connect devices to branch circuits using pigtails that are not less than 6 inches in length.
5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, two-thirds to three-fourths of the way around terminal screw.
6. Use a torque screwdriver when a torque is recommended or required by manufacturer.
7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
8. Tighten unused terminal screws on the device.
9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device-mounting screws in yokes, allowing metal-to-metal contact.

E. Receptacle Orientation:

1. Install ground pin of vertically mounted receptacles up, and on horizontally mounted receptacles to the right.

F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

G. Dimmers:

1. Install dimmers within terms of their listing.
2. Verify that dimmers used for fan speed control are listed for that application.
3. Install unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.

H. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multi-gang wall plates.

WIRING DEVICES
SECTION 262726

- I. Adjust locations of floor service outlets and service poles to suit arrangement of partitions and furnishings.
- J. Wall Plate Gaskets: Place gasket over exposed outlet box flush with wall surface with device protruding through precut opening in seal. Fit wall plate over gasket and hold in place with plate-securing screws.
 - 1. Install gaskets at recessed electrical outlets in partitions with a sound rating STC-45 or higher and other locations indicated.

3.2 IDENTIFICATION

- A. Comply with Section 260553 "Identification for Electrical Systems."
- B. Identify each receptacle with panelboard identification and circuit number. Use hot, stamped, or engraved machine printing with black-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

3.3 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 - 1. Test Instruments: Use instruments that comply with UL 1436.
 - 2. Test Instrument for Convenience Receptacles: Digital wiring analyzer with digital readout or illuminated digital-display indicators of measurement.
- B. Tests for Convenience Receptacles:
 - 1. Line Voltage: Acceptable range is 105 to 132 V.
 - 2. Percent Voltage Drop under 15-A Load: A value of 6 percent or higher is unacceptable.
 - 3. Ground Impedance: Values of up to 2 ohms are acceptable.
 - 4. GFCI Trip: Test for tripping values specified in UL 1436 and UL 943.
 - 5. Using the test plug, verify that the device and its outlet box are securely mounted.
 - 6. Tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.
- C. Wiring device will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

END OF SECTION 262726

FUSES
SECTION 262813

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes cartridge fuses, rated 600 V and less, for use in switches, and spare fuse cabinets.

1.3 SUBMITTALS

- A. Product Data: Include dimensions and manufacturer's technical data on features, performance, electrical characteristics, and ratings for each fuse type indicated.
- B. Product Data: Include the following for each fuse type indicated:
 - 1. Dimensions and manufacturer's technical data on features, performance, electrical characteristics, and ratings.
 - 2. Let-through current curves for fuses with current-limiting characteristics.
 - 3. Time-current curves, coordination charts and tables, and related data.
 - 4. Fuse size for elevator feeders and elevator disconnect switches.
- C. Ambient Temperature Adjustment Information. If ratings of fuses have been adjusted to accommodate ambient temperatures, provide list of fuses adjusted.
 - 1. For each adjusted fuse, include location of fuse, original fuse rating, local ambient temperature, and adjusted fuse rating.
 - 2. Provide manufacturer's technical data on which ambient temperature adjustment calculations are based.
- D. Maintenance Data: For tripping devices to include in maintenance manuals specified in Division 1.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Provide fuses from a single manufacturer.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. Comply with NEMA FU 1.
- D. Comply with NFPA 70.

FUSES
SECTION 262813

1.5 PROJECT CONDITIONS

- A. Where ambient temperature to which fuses are directly exposed is less than 40 deg F or more than 100 deg F, apply manufacturer's ambient temperature adjustment factors to fuse ratings.

1.6 COORDINATION

- A. Coordinate fuse ratings with HVAC and refrigeration equipment nameplate limitations of maximum fuse size.

1.7 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged in original cartons or containers and identified with labels describing contents.
 - 1. Fuses: Quantity equal to 20 percent of each fuse type and size, but not fewer than 3 of each type and size.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Cooper Industries, Inc.; Bussmann Div.
 - 2. Eagle Electric Mfg. Co., Inc.
 - 3. Ferraz Corp.
 - 4. Gould Shawmut.
 - 5. Tracor, Inc.; Littelfuse, Inc. Subsidiary.

2.2 CARTRIDGE FUSES

- A. Characteristics: NEMA FU 1, nonrenewable cartridge fuse; class and current rating indicated; voltage rating consistent with circuit voltage.

2.3 SPARE FUSE CABINET

- A. Cabinet: Wall-mounted, 0.05-inch-thick steel unit with full-length, recessed piano-hinged door and key-coded cam lock and pull.
 - 1. Size: Adequate for storage of spare fuses specified with 15 percent spare capacity minimum.
 - 2. Finish: Gray, baked enamel.
 - 3. Identification: "SPARE FUSES" in 1-1/2-inch-high letters on exterior of door.
 - 4. Fuse Pullers: For each size fuse.

FUSES
SECTION 262813

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine utilization equipment nameplates and installation instructions. Install fuses of sizes and with characteristics appropriate for each piece of equipment.
- B. Evaluate ambient temperatures to determine if fuse rating adjustment factors must be applied to fuse ratings.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 FUSE APPLICATIONS

- A. Motor Branch Circuits: Class RK5, time delay.
- B. Other Branch Circuits: Class RK1, time delay.

3.3 INSTALLATION

- A. Install fuses in fusible devices. Arrange fuses so rating information is readable without removing fuse.
- B. Install spare fuse cabinet(s).

3.4 IDENTIFICATION

- A. Install labels indicating fuse replacement information on inside door of each fused switch.

END OF SECTION 262813

ENCLOSED SWITCHES AND CIRCUIT BREAKERS
SECTION 262816

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes individually mounted enclosed switches and circuit breakers used for the following:
 - 1. Motor and equipment disconnecting means.
- B. Related Sections include the following:
 - 1. Division 26 Section "Wiring Devices" for attachment plugs, receptacles, and toggle switches used for disconnecting means.
 - 2. Division 26 Section "Fuses" for fusible devices.

1.3 DEFINITIONS

- A. GFCI: Ground-fault circuit interrupter.
- B. RMS: Root mean square.
- C. SPDT: Single pole, double throw.

1.4 SUBMITTALS

- A. Product Data: For each type of switch, circuit breaker, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: For each switch and circuit breaker.
 - 1. Dimensioned plans, elevations, sections, and details, including required clearances and service space around equipment. Show tabulations of installed devices, equipment features, and ratings. Include the following:
 - a. Enclosure types and details for types other than NEMA 250, Type 1.
 - b. Current and voltage ratings.
 - c. Short-circuit current rating.
 - d. Features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
 - 2. Wiring Diagrams: Power, signal, and control wiring. Differentiate between manufacturer-installed and field-installed wiring.
- C. Qualification Data: Submit data for testing agencies indicating that they comply with qualifications specified in "Quality Assurance" Article.

ENCLOSED SWITCHES AND CIRCUIT BREAKERS
SECTION 262816

- D. Field Test Reports: Submit written test reports and include the following:
 - 1. Test procedures used.
 - 2. Test results that comply with requirements.
 - 3. Results of failed tests and corrective action taken to achieve test results that comply with requirements.
- E. Manufacturer's field service report.
- F. Maintenance Data: For enclosed switches and circuit breakers and for components to include in maintenance manuals specified in Division 01. In addition to requirements specified in Division 01 Section "Closeout Procedures," include the following:
 - 1. Routine maintenance requirements for components.
 - 2. Manufacturer's written instructions for testing and adjusting switches and circuit breakers.
 - 3. Time-current curves, including selectable ranges for each type of circuit breaker.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NEMA AB 1 and NEMA KS 1.
- C. Comply with NFPA 70.
- D. Product Selection for Restricted Space: Drawings indicate maximum dimensions for enclosed switches and circuit breakers, including clearances between enclosures, and adjacent surfaces and other items. Comply with indicated maximum dimensions.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Rate equipment for continuous operation under the following conditions, unless otherwise indicated:
 - 1. Ambient Temperature: Not less than minus 22 deg F (minus 30 deg C) and not exceeding 104 deg F.
 - 2. Altitude: Not exceeding 6600 feet.

1.7 COORDINATION

- A. Coordinate layout and installation of switches, circuit breakers, and components with other construction, including conduit, piping, equipment, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

ENCLOSED SWITCHES AND CIRCUIT BREAKERS
SECTION 262816

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Fusible Switches:
 - a. Eaton Corp.; Cutler-Hammer Products.
 - b. Siemens Energy & Automation, Inc.
 - c. Square D Co.
 - 2. Molded-Case Circuit Breakers:
 - a. Eaton Corp.; Cutler-Hammer Products.
 - b. Siemens Energy & Automation, Inc.
 - c. Square D Co.

2.2 ENCLOSED SWITCHES

- A. Enclosed, Nonfusible Switch: NEMA KS 1, Type HD, with lockable handle.
- B. Enclosed, Fusible Switch, 800 A and Smaller: NEMA KS 1, Type HD, with clips to accommodate specified fuses, lockable handle with two padlocks, and interlocked with cover in closed position.

2.3 ENCLOSED CIRCUIT BREAKERS

- A. Molded-Case Circuit Breaker: NEMA AB 1, with interrupting capacity to meet available fault currents.
 - 1. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
 - 2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
 - 3. Current-Limiting Circuit Breakers: Frame sizes 400 A and smaller; let-through ratings less than NEMA FU 1, RK-5.
 - 4. GFCI Circuit Breakers: Single- and two-pole configurations with 5-mA trip sensitivity.
 - 5. Molded-Case Switch: Molded-case circuit breaker without trip units.
- B. Molded-Case Circuit-Breaker Features and Accessories: Standard frame sizes, trip ratings, and number of poles.
 - 1. Lugs: Mechanical style suitable for number, size, trip ratings, and material of conductors.
 - 2. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HACR for heating, air-conditioning, and refrigerating equipment.
 - 3. Ground-Fault Protection: Integrally mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
 - 4. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.

ENCLOSED SWITCHES AND CIRCUIT BREAKERS
SECTION 262816

- C. For circuit breakers being furnished and installed in existing panelboards, new breakers shall be UL listed for use with existing panelboards, and match existing panelboard manufacturer and AIC rating.

2.4 ENCLOSURES

- A. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.
 - 1. Outdoor Locations: NEMA 250, Type 3R.
 - 2. Kitchen Areas: NEMA 250, Type 4X, stainless steel.
 - 3. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.

2.5 FACTORY FINISHES

- A. Finish: Manufacturer's standard paint applied to factory-assembled and -tested enclosures before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine elements and surfaces to receive enclosed switches and circuit breakers for compliance with installation tolerances and other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from enclosures and components.

3.3 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs as specified in Division 26 Section 260050 "Basic Electrical Materials and Methods."
- B. Enclosure Nameplates: Label each enclosure with engraved metal or laminated-plastic nameplate mounted with corrosion-resistant screws.

3.4 CONNECTIONS

- A. Install equipment grounding connections for switches and circuit breakers with ground continuity to main electrical ground bus.
- B. Install power wiring. Install wiring between switches and circuit breakers, and control and indication devices.
- C. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

ENCLOSED SWITCHES AND CIRCUIT BREAKERS
SECTION 262816

3.5 FIELD QUALITY CONTROL

- A. Prepare for acceptance tests as follows:
 - 1. Test insulation resistance for each enclosed switch, circuit breaker, component, and control circuit.
 - 2. Test continuity of each line- and load-side circuit.
- B. Testing: After installing enclosed switches and circuit breakers and after electrical circuitry has been energized, demonstrate product capability and compliance with requirements.
 - 1. Procedures: Perform each visual and mechanical inspection and electrical test indicated in NETA ATS, Section 7.5 for switches and Section 7.6 for molded-case circuit breakers. Certify compliance with test parameters.
 - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
- C. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each enclosed switch and circuit breaker. Open or remove doors or panels so connections are accessible to portable scanner.
 - 1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each unit 11 months after date of Substantial Completion.
 - 2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
 - 3. Record of Infrared Scanning: Prepare a certified report that identifies switches and circuit breakers checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.6 ADJUSTING

- A. Set field-adjustable switches and circuit-breaker trip ranges.

3.7 CLEANING

- A. On completion of installation, inspect interior and exterior of enclosures. Remove paint splatters and other spots. Vacuum dirt and debris; do not use compressed air to assist in cleaning. Repair exposed surfaces to match original finish.

END OF SECTION 262816

ENGINE GENERATORS
SECTION 263213

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes packaged engine-generator sets for standby power supply with the following features:
 - 1. Diesel engine.
 - 2. Unit-mounted cooling system.
 - 3. Unit-mounted control and monitoring.
 - 4. Load bank.
 - 5. Outdoor enclosure.
- B. Related Sections include the following:
 - 1. Division 26 Section "Transfer Switches" for transfer switches including sensors and relays to initiate automatic-starting and -stopping signals for engine-generator sets.

1.3 DEFINITIONS

- A. Operational Bandwidth: The total variation from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.

1.4 SUBMITTALS

- A. Product Data: For each type of packaged engine generator indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. In addition, include the following:
 - 1. Thermal damage curve for generator.
 - 2. Time-current characteristic curves for generator protective device.
 - 3. Include fuel consumption in gallons per hour (liters per hour)
- B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 1. Dimensioned outline plan and elevation drawings of engine-generator set and other components specified.
 - 2. Wiring Diagrams: Power, signal, and control wiring.

ENGINE GENERATORS
SECTION 263213

- C. Qualification Data: For manufacturer.
- D. Source quality-control test reports.
 - 1. Certified summary of prototype-unit test report.
 - 2. Certified Test Reports: For components and accessories that are equivalent, but not identical, to those tested on prototype unit.
 - 3. Report of factory test on units to be shipped for this Project, showing evidence of compliance with specified requirements.
 - 4. Report of sound generation.
 - 5. Report of exhaust emissions showing compliance with applicable regulations.
 - 6. Certified Torsional Vibration Compatibility: Comply with NFPA 110.
- E. Field quality-control test reports.
- F. Operation and Maintenance Data: For packaged engine generators to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
 - 1. List of tools and replacement items recommended to be stored at Project for ready access. Include part and drawing numbers, current unit prices, and source of supply.
- G. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
 - 1. Maintenance Proximity: Not more than four hours' normal travel time from Installer's place of business to Project site.
- B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 200 miles of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.
- C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- E. Comply with ASME B15.1.
- F. Comply with NFPA 37.
- G. Comply with NFPA 70.

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- H. Comply with NFPA 110 requirements for Level 1 emergency power supply system.
- I. Comply with UL 2200.
- J. Engine Exhaust Emissions: Comply with applicable state and local government requirements.
- K. Noise Emission: Comply with this specification and applicable state and local government requirements for maximum noise level at adjacent property boundaries due to sound emitted by generator set including engine, engine exhaust, engine cooling-air intake and discharge, and other components of installation.

1.6 PROJECT CONDITIONS

- A. Interruption of Existing Electrical Service: Do not interrupt electrical service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electrical service according to requirements indicated:
 - 1. Notify Owner no fewer than two days in advance of proposed interruption of electrical service.
 - 2. Do not proceed with interruption of electrical service without Owner's written permission.
- B. Environmental Conditions: Engine-generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:
 - 1. Ambient Temperature: Minus 15 to plus 40 deg C.
 - 2. Altitude: Sea level to 1000 feet.

1.7 COORDINATION

- A. Coordinate size and location of concrete bases for package engine generators. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 3.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of packaged engine generators and associated auxiliary components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five year from date of Substantial Completion.

1.9 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion, provide 12 months' full maintenance by skilled employees of manufacturer's designated service organization. Include quarterly exercising to check for proper starting, load transfer, and running under load. Include routine preventive maintenance as recommended by

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manufacturer and adjusting as required for proper operation. Provide parts and supplies same as those used in the manufacture and installation of original equipment.

1.10 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Fuses: One for every 10 of each type and rating, but no fewer than one of each.
 - 2. Indicator Lamps: Two for every six of each type used, but no fewer than two of each.
 - 3. Filters: One set each of lubricating oil, fuel, and combustion-air filters.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Kohler Co; Generator Division (Basis of Design)
 - 2. Generac Power Systems, Inc.
 - 3. Onan Cummins Power Generation.

2.2 ENGINE-GENERATOR SET

- A. Factory-assembled and -tested, engine-generator set.
- B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.
 - 1. Rigging Diagram: Inscribed on metal plate permanently attached to mounting frame to indicate location and lifting capacity of each lifting attachment and generator-set center of gravity.
- C. Capacities and Characteristics:
 - 1. Power Output Ratings: 100KW/125 KVA, 480/277 volt.
 - 2. Output Connections: Three-phase, four wire.
 - 3. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component.

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SECTION 263213

D. Generator-Set Performance:

1. Steady-State Voltage Operational Bandwidth: 3 percent of rated output voltage from no load to full load.
2. Transient Voltage Performance: Not more than 20 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within three seconds.
3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.
4. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.
5. Transient Frequency Performance: Less than 5 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within five seconds.
6. Output Waveform: At no load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for single harmonics. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50 percent.
7. Sustained Short-Circuit Current: For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 250 percent of rated full-load current for not less than 10 seconds and then clear the fault automatically, without damage to generator system components.
8. Start Time: Comply with NFPA 110, Type 10, system requirements.

2.3 ENGINE

- A. Fuel: ASTM D 975 diesel fuel oil, Grade 2-D S15.
- B. Rated Engine Speed: 1800 rpm.
- C. Maximum Piston Speed for Four-Cycle Engines: 2250 fpm (11.4 m/s).
- D. Lubrication System: The following items are mounted on engine or skid:
 1. Filter and Strainer: Rated to remove 90 percent of particles 5 micrometers and smaller while passing full flow.
 2. Thermostatic Control Valve: Control flow in system to maintain optimum oil temperature. Unit shall be capable of full flow and is designed to be fail-safe.
 3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.
- E. Coolant Jacket Heater: Electric-immersion type, factory installed in coolant jacket system. Comply with NFPA 110 requirements for Level 1 equipment for heater capacity.
- F. Governor: Adjustable isochronous, with speed sensing.

ENGINE GENERATORS
SECTION 263213

- G. Cooling System: Closed loop, liquid cooled, with radiator factory mounted on engine-generator-set mounting frame and integral engine-driven coolant pump.
1. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.
 2. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.
 3. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.
 4. Coolant Hose: Flexible assembly with inside surface of nonporous rubber and outer covering of aging-, ultraviolet-, and abrasion-resistant fabric.
 - a. Rating: 50-psig (345-kPa) maximum working pressure with coolant at 180 deg F, and noncollapsible under vacuum.
 - b. End Fittings: Flanges or steel pipe nipples with clamps to suit piping and equipment connections.
- H. Muffler/Silencer: Critical type, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements.
1. Minimum sound attenuation of 25 dB at 500 Hz.
 2. Sound level measured at a distance of 10 feet from exhaust discharge after installation is complete shall be 85 dBA or less.
 3. Muffler mounted within the outdoor generator-set enclosure.
- I. Air-Intake Filter: Heavy-duty, engine-mounted air cleaner with replaceable dry-filter element and "blocked filter" indicator.
- J. Starting System: 12-V electric, with negative ground.
1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in Part 1 "Project Conditions" Article.
 2. Cranking Motor: Heavy-duty unit that automatically engages and releases from engine flywheel without binding.
 3. Cranking Cycle: As required by NFPA 110 for system level specified.
 4. Battery: Adequate capacity within ambient temperature range specified in Part 1 "Project Conditions" Article to provide specified cranking cycle at least three times without recharging.
 5. Battery Cable: Size as recommended by engine manufacturer for cable length indicated. Include required interconnecting conductors and connection accessories.

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6. Battery Compartment: Factory fabricated of metal with acid-resistant finish and thermal insulation. Thermostatically controlled heater shall be arranged to maintain battery above 10 deg C regardless of external ambient temperature within range specified in Part 1 "Project Conditions" Article. Include accessories required to support and fasten batteries in place.
7. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation and 35-A minimum continuous rating.
8. Battery Charger: Current-limiting, automatic-equalizing, and float-charging type designed for lead-acid batteries. Unit shall comply with UL 1236 and include the following features:
 - a. Operation: Equalizing-charging rate of 10 A shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.
 - b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 40 to 140 deg F (minus 40 to plus 60 deg C) to prevent overcharging at high temperatures and undercharging at low temperatures.
 - c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.
 - d. Ammeter and Voltmeter: Flush mounted in door. Meters shall indicate charging rates.

2.4 DIESEL FUEL-OIL SYSTEM

- A. Comply with NFPA 37.
- B. Piping: Fuel-oil piping shall be Schedule 40 black steel, complying with requirements in Section 231113 "Facility Fuel-Oil Piping." Cast iron, aluminum, copper, and galvanized steel shall not be used in the fuel-oil system.
- C. Main Fuel Pump: Mounted on engine to provide primary fuel flow under starting and load conditions.
- D. Fuel Filtering: Remove water and contaminants larger than 1 micron.
- E. Relief-Bypass Valve: Automatically regulates pressure in fuel line and returns excess fuel to source.
- F. Subbase-Mounted, Double-Wall, Fuel-Oil Tank: Factory installed and piped, complying with UL 142 fuel-oil tank. Features include the following:
 1. Tank level indicator.

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2. Fuel-Tank Capacity: As recommended by engine manufacturer for an uninterrupted period of 48 hours' operation at 100 percent of rated power output of engine generator system without being refilled.
3. Leak detection in interstitial space.
4. Vandal-resistant fill cap.

5. Containment Provisions: Comply with requirements of authorities having jurisdiction.

2.5 CONTROL AND MONITORING

- A. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of generator set. When mode-selector switch is switched to the on position, generator set starts. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down generator set.

- B. Manual Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts generator set. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down generator set.

- C. Configuration: Operating and safety indications, protective devices, basic system controls, and engine gages shall be grouped in a common control and monitoring panel mounted on the generator set. Mounting method shall isolate the control panel from generator-set vibration.

- D. Indicating and Protective Devices and Controls: As required by NFPA 110 for Level 1 or 02 system, and the following:
 1. AC voltmeter.
 2. AC ammeter.
 3. AC frequency meter.
 4. DC voltmeter (alternator battery charging).
 5. Engine-coolant temperature gage.
 6. Engine lubricating-oil pressure gage.
 7. Running-time meter.
 8. Ammeter-voltmeter, phase-selector switch(es).
 9. Generator-voltage adjusting rheostat.
 10. Generator overload.

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- E. Supporting Items: Include sensors, transducers, terminals, relays, and other devices and include wiring required to support specified items. Locate sensors and other supporting items on engine or generator, unless otherwise indicated.
- F. Connection to Data Link: A separate terminal block, factory wired to Form C dry contacts, for each alarm and status indication is reserved for connections for data-link transmission of indications to remote data terminals.
- G. Common Remote Audible Alarm: Signal the occurrence of any events listed below without differentiating between event types. Connect so that after an alarm is silenced, clearing of initiating condition will reactivate alarm until silencing switch is reset.
 - 1. Engine high-temperature shutdown.
 - 2. Lube-oil, low-pressure shutdown.
 - 3. Overspeed shutdown.
 - 4. Remote emergency-stop shutdown.
 - 5. Engine high-temperature prealarm.
 - 6. Lube-oil, low-pressure prealarm.
 - 7. Fuel tank, low-fuel level.
 - 8. Low coolant level.
- H. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

2.6 GENERATOR OVERCURRENT AND FAULT PROTECTION

- A. Generator Circuit Breaker: Molded-case, LSI Electronic Trip type; 100 percent rated; complying with NEMA AB 1 and UL 489.
 - 1. Tripping Characteristics: Adjustable long-time and short-time delay and instantaneous.
 - 2. Trip Settings: Selected to coordinate with generator thermal damage curve.
 - 3. Shunt Trip: Connected to trip breaker when generator set is shut down by other protective devices.
 - 4. Mounting: Adjacent to or integrated with control and monitoring panel.
- B. Generator Protector: Microprocessor-based unit shall continuously monitor current level in each phase of generator output, integrate generator heating effect over time, and predict when thermal damage of alternator will occur. When signaled by generator protector or other generator-set protective devices, a shunt-trip device in the generator disconnect switch shall open the switch to disconnect the generator from load circuits. Protector shall perform the following functions:
 - 1. Initiates a generator overload alarm when generator has operated at an overload equivalent to 110 percent of full-rated load for 60 seconds. Indication for this alarm is integrated with other generator-set malfunction alarms.
 - 2. Under single or three-phase fault conditions, regulates generator to 300 percent of rated full-load current for up to 10 seconds.

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3. As overcurrent heating effect on the generator approaches the thermal damage point of the unit, protector switches the excitation system off, opens the generator disconnect device, and shuts down the generator set.
4. Senses clearing of a fault by other overcurrent devices and controls recovery of rated voltage to avoid overshoot.

2.7 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

- A. Comply with NEMA MG 1.
- B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.
- C. Electrical Insulation: Class H.
- D. Stator-Winding Leads: Brought out to terminal box to permit future reconnection for other voltages if required.
- E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, overspeed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.
- F. Enclosure: Dripproof.
- G. Instrument Transformers: Mounted within generator enclosure.
- H. Voltage Regulator: Solid-state type, separate from exciter, providing performance as specified.
 1. Adjusting rheostat on control and monitoring panel shall provide plus or minus 5 percent adjustment of output-voltage operating band.
- I. Strip Heater: Thermostatically controlled unit arranged to maintain stator windings above dew point.
- J. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.
- K. Subtransient Reactance: 12 percent, maximum.

2.8 PERMENENT LOAD BANK

- A. Description:
 1. Permanent, outdoor, weatherproof, forced-air-cooled, resistive unit capable of providing a balanced three-phase, delta-connected load to engine generator at 100 percent rated-system capacity, controlled by a common control panel. Unit shall be capable of selective control of load in 25 percent steps and with minimum step changes of approximately 5 and 10 percent available.
 2. Operational Ratings and Limitations as follows:
 - a. Capacity: 100kW, 1.0 power factor

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b.	Voltage:	480V AC, 3-phase, 3-wire
c.	Frequency:	60 Hertz
d.	Load Steps:	10kW load step resolution
e.	Duty Cycle:	Continuous
f.	Ambient Temp:	120°F
g.	Exhaust Rise:	150°F
h.	Airflow Req'd:	6,000 CFM
i.	Control Power:	Internal, 120V-1-60 via control power transformer
j.	Fan Power:	Internal, 480V-3-60

- B. Resistive Load Elements: Corrosion-resistant chromium alloy with ceramic and stainless-steel supports. Elements shall be double insulated and designed for repetitive on-off cycling. Elements shall be mounted in removable aluminized-steel heater cases. Galvanized steel is prohibited. Element's maximum resistance shall be between 100 and 105 percent of rated resistance.
- C. Load-Bank Heat Dissipation: Integral fan with totally enclosed motor shall provide uniform cooling airflow through load elements. Airflow and coil operating current shall be such that, at maximum load, with ambient temperature at the upper end of specified range, load-bank elements operate at not more than 50 percent of maximum continuous temperature rating of resistance elements.
- D. Load-Element Switching: Remote-controlled contactors switch groups of load elements. Contactor coils are rated 120 V. Contactors shall be located in a separate NEMA 250, Type 3R enclosure within load-bank enclosure, accessible from exterior through hinged doors with tumbler locks.
- E. Contactor Enclosures: Heated by thermostatically controlled strip heaters to prevent condensation.
- F. Load-Bank Enclosures: NEMA 250, Type 3R, aluminized steel complying with NEMA ICS 6. Louvers at cooling-air intake and discharge openings shall prevent entry of rain and snow. Openings for airflow shall be screened with 1/2-inch- (13-mm-) square, galvanized-steel mesh. Reactive load bank shall include automatic shutters at air intake and discharge. Components other than resistive elements shall receive exterior epoxy coating with compatible primer. Comply with requirements in Section 099600 "High-Performance Coatings."
- G. Protective Devices: Power input circuits to load banks shall be fused, and fuses shall be selected to coordinate with generator circuit breaker. Fuse blocks shall be located in contactor enclosure. Cooling airflow and overtemperature sensors shall automatically shut down and lock out load bank until manually reset. Safety interlocks on access panels and doors shall disconnect load power, control, and heater circuits. Fan motor shall be separately protected by overload and short-circuit devices. Short-circuit devices shall be noninterchangeable fuses with 200,000-A interrupting capacity.
- H. Load Bank Control as follows:
1. This load bank includes unit mounted control circuitry in a type 4X enclosure, with hinge-open front; PLC-based, 4" Color Touch HMI controller consisting of the following:

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- a. Power supply for load bank control circuits.
 - b. Malfunction detection/auto disconnect system.
 - c. Cooling fan automatic start-stop control.
 - d. Remote load dump circuit to allow use of remote dry contacts (close to run) to trip load bank offline.
 - e. Auxiliary dry contacts to indicate "normal operation"/"summary alarm"
 - f. Summary alarm lamp (LED) on load bank enclosure – indicates that there has been a cooling failure, load dump activation or other failure.
2. Touch panel functions, including:
 - a. Control Power On – Off buttons (starts/stops cooling fan)
 - b. Bypass switch to override remote load dump
 - c. Numeric load application button – activates numeric keypad for applying or removing desired load value
 3. Touch panel message display including:
 - a. Control Power On/Off
 - b. Manual mode
 - c. Auto Mode (if equipped)
 - d. Load dump – normal/bypass
 - e. Normal operation
 - f. High exhaust temp
 - g. High intake temp.
 - h. Fan failure
 - i. Load bank failure
 - j. Master load on
 - k. Load step on (one for each load step)
- I. Control Sequence: Control panel may be preset for adjustable single-step loading of generator during automatic exercising.

2.9 OUTDOOR GENERATOR-SET ENCLOSURE

- A. Description: Vandal-resistant, weatherproof aluminum housing, wind resistant up to 180 mph (290 km/h). Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Panels shall be removable by one person without tools. Instruments and control shall be mounted within enclosure.
- B. Engine Cooling Airflow through Enclosure: Maintain temperature rise of system components within required limits when unit operates at 110 percent of rated load for 2 hours with ambient temperature at top of range specified in system service conditions.
 1. Louvers: Fixed-engine, cooling-air inlet and discharge. Storm-proof and drainable louvers prevent entry of rain and snow.
 2. Automatic Dampers: At engine cooling-air inlet and discharge. Dampers shall be closed to reduce enclosure heat loss in cold weather when unit is not operating.
- C. Generator Muffler Location: Muffler shall be mounted within enclosure.

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2.10 VIBRATION ISOLATION DEVICES

- A. Restrained Spring Isolators: Freestanding, steel, open-spring isolators with seismic restraint.
1. Housing: Steel with resilient vertical-limit stops to prevent spring extension due to wind loads or if weight is removed; factory-drilled baseplate bonded to 1/4-inch thick, elastomeric isolator pad attached to baseplate underside; and adjustable equipment mounting and leveling bolt that acts as blocking during installation.
 2. Outside Spring Diameter: Not less than 80 percent of compressed height of the spring at rated load.
 3. Minimum Additional Travel: 50 percent of required deflection at rated load.
 4. Lateral Stiffness: More than 80 percent of rated vertical stiffness.
 5. Overload Capacity: Support 200 percent of rated load, fully compressed, without deformation or failure.

2.11 FINISHES

- A. Outdoor Enclosures and Components: Manufacturer's standard finish over corrosion-resistant pretreatment and compatible primer.

2.12 SOURCE QUALITY CONTROL

- A. Prototype Testing: Factory test engine-generator set using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.
1. Tests: Comply with NFPA 110, Level 1 Energy Converters and with IEEE 115.
- B. Project-Specific Equipment Tests: Before shipment, factory test engine-generator set and other system components and accessories manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:
1. Test components and accessories furnished with installed unit that are not identical to those on tested prototype to demonstrate compatibility and reliability.
 2. Full load run.
 3. Maximum power.
 4. Voltage regulation.
 5. Transient and steady-state governing.
 6. Single-step load pickup.
 7. Safety shutdown.
 8. Provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.
 9. Report factory test results within 10 days of completion of test.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, equipment bases, and conditions, with Installer present, for compliance with requirements for installation and other conditions affecting packaged engine-generator performance.
- B. Examine roughing-in of piping systems and electrical connections. Verify actual locations of connections before packaged engine-generator installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with packaged engine-generator manufacturers' written installation and alignment instructions and with NFPA 110.
- B. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.
- C. Install packaged engine generator with restrained spring isolators having a minimum deflection of 1 inch on 4-inch-high concrete base. Secure sets to anchor bolts installed in concrete bases.
- D. Install Schedule 40, black steel piping with welded joints and connect to engine muffler. Install thimble at wall. Piping shall be same diameter as muffler outlet. Flexible connectors and steel piping materials and installation requirements are specified in Division 23 Section "Hydronic Piping."
 - 1. Install condensate drain piping to muffler drain outlet full size of drain connection with a shutoff valve, stainless-steel flexible connector, and Schedule 40, black steel pipe with welded joints. Flexible connectors and piping materials and installation requirements are specified in Division 23 Section "Hydronic Piping."
- E. Electrical Wiring: Install electrical devices furnished by equipment manufacturers but not specified to be factory mounted.

3.3 CONNECTIONS

- A. Piping installation requirements are specified in Division 23 Sections. Drawings indicate general arrangement of piping and specialties.
- B. Connect fuel, cooling-system, and exhaust-system piping adjacent to packaged engine generator to allow service and maintenance.
- C. Connect engine exhaust pipe to engine with flexible connector.
- D. Ground equipment according to Division 23 Section "Grounding and Bonding for Electrical Systems."

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- E. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.4 IDENTIFICATION

- A. Identify system components according to Division 23 Section "Mechanical Identification" and Division 26 Section "Identification for Electrical Systems."

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections. Report results in writing.

- B. Tests and Inspections:

1. Perform tests recommended by manufacturer and each electrical test and visual and mechanical inspection for "AC Generators and for Emergency Systems" specified in NETA Acceptance Testing Specification. Certify compliance with test parameters.
2. NFPA 110 Acceptance Tests: Perform tests required by NFPA 110 that are additional to those specified here including, but not limited to, single-step full-load pickup test.
3. Battery Tests: Equalize charging of battery cells according to manufacturer's written instructions. Record individual cell voltages.
 - a. Measure charging voltage and voltages between available battery terminals for full-charging and float-charging conditions. Check electrolyte level and specific gravity under both conditions.
 - b. Test for contact integrity of all connectors. Perform an integrity load test and a capacity load test for the battery.
 - c. Verify acceptance of charge for each element of the battery after discharge.
 - d. Verify that measurements are within manufacturer's specifications.
4. Battery-Charger Tests: Verify specified rates of charge for both equalizing and float-charging conditions.
5. System Integrity Tests: Methodically verify proper installation, connection, and integrity of each element of engine-generator system before and during system operation. Check for air, exhaust, and fluid leaks.
6. Exhaust Emissions Test: Comply with applicable government test criteria.
7. Voltage and Frequency Transient Stability Tests: Use recording oscilloscope to measure voltage and frequency transients for 50 and 100 percent step-load increases and decreases, and verify that performance is as specified.
8. Harmonic-Content Tests: Measure harmonic content of output voltage under 25 percent and at 100 percent of rated linear load. Verify that harmonic content is within specified limits.
9. Noise Level Tests: Measure A-weighted level of noise emanating from generator-set installation, including engine exhaust and cooling-air intake and

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discharge, at four locations on the property line, and compare measured levels with required values.

- C. Coordinate tests with tests for transfer switches and run them concurrently.
- D. Test instruments shall have been calibrated within the last 12 months, traceable to standards of NIST, and adequate for making positive observation of test results. Make calibration records available for examination on request.
- E. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
- F. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
- G. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- H. Remove and replace malfunctioning units and retest as specified above.
- I. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.
- J. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation resistances, time delays, and other values and observations. Attach a label or tag to each tested component indicating satisfactory completion of tests.
- K. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each power wiring termination and each bus connection. Remove all access panels so terminations and connections are accessible to portable scanner.
 - 1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan 11 months after date of Substantial Completion.
 - 2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
 - 3. Record of Infrared Scanning: Prepare a certified report that identifies terminations and connections checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain packaged engine generators. Refer to Division 01 Section "Demonstration and Training."

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END OF SECTION 263213

TRANSFER SWITCHES

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PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes automatic transfer Bypass/Isolation switches rated 600 V and less.

1.2 SUBMITTALS

- A. Product Data: Include rated capacities, weights, operating characteristics, furnished specialties, and accessories.
- B. Shop Drawings: Dimensioned plans, elevations, sections, and details showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and material lists for each switch specified.
- C. Field quality-control reports.
- D. Operation and maintenance data.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NEMA ICS 1.
- C. Comply with NFPA 70.
- D. Comply with NFPA 110.
- E. Comply with UL 1008 unless requirements of these Specifications are stricter.

1.4 FIELD CONDITIONS

- A. Interruption of Existing Electrical Service: Do not interrupt electrical service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electrical service:
 - 1. Notify Architect and Owner no fewer than seven days in advance of proposed interruption of electrical service.
 - 2. Do not proceed with interruption of electrical service without Owner's written permission.

1.5 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of transfer switch or transfer switch components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.

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PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

A. Transfer Switches:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Russ Electric: RTS-03 Series (Basis of Design).
 - b. Emerson; ASCO Power Technologies, LP.
 - c. Generac Power Systems, Inc.
 - d. Kohler Power Systems; Generator Division.
 - e. Onan/Cummins Power Generation; Industrial Business Group

2.2 GENERAL TRANSFER-SWITCH PRODUCT REQUIREMENTS

- A. Indicated Current Ratings: Apply as defined in UL 1008 for continuous loading and total system transfer, including tungsten filament lamp loads not exceeding 30 percent of switch ampere rating, unless otherwise indicated.
- B. Tested Fault-Current Closing and Withstand Ratings: Adequate for duty imposed by protective devices at installation locations in Project under the fault conditions indicated, based on testing according to UL 1008.
 1. Where transfer switch includes internal fault-current protection, rating of switch and trip unit combination shall exceed indicated fault-current value at installation location.
- C. Solid-State Controls: Repetitive accuracy of all settings shall be plus or minus 2 percent or better over an operating temperature range of minus 20 to plus 70 deg C.
- D. Resistance to Damage by Voltage Transients: Components shall meet or exceed voltage-surge withstand capability requirements when tested according to IEEE C62.41. Components shall meet or exceed voltage-impulse withstand test of NEMA ICS 1.
- E. Electrical Operation: Accomplish by a nonfused, momentarily energized solenoid or electric-motor-operated mechanism, mechanically and electrically interlocked in both directions.
- F. Switch Characteristics: Designed for continuous-duty repetitive transfer of full-rated current between active power sources.

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1. Limitation: Switches using molded-case switches or circuit breakers or insulated-case circuit-breaker components are not acceptable.
2. Switch Action: Double throw; mechanically held in both directions.
3. Contacts: Silver composition or silver alloy for load-current switching. Conventional automatic transfer-switch units, rated 225 A and higher, shall have separate arcing contacts.

G. Neutral Terminal: Solid and fully rated, unless otherwise indicated.

H. Enclosures: General-purpose NEMA 250, Type 3R, complying with NEMA ICS 6 and UL 508, unless otherwise indicated.

2.3 AUTOMATIC TRANSFER SWITCHES

A. Comply with Level 1 equipment according to NFPA 110.

B. Switching Arrangement: Double-throw type, incapable of pauses or intermediate position stops during normal functioning, unless otherwise indicated.

C. Signal-Before-Transfer Contacts: A set of normally open/normally closed dry contacts operates in advance of retransfer to normal source. Interval is adjustable from 1 to 30 seconds.

D. Programmed Neutral Switch Position: Switch operator has a programmed neutral position arranged to provide a midpoint between the two working switch positions, with an intentional, time-controlled pause at midpoint during transfer. Interlocked to prevent the load from being closed on both sources at the same time.

1. Adjustable Time Delay: For override of normal source voltage sensing to delay transfer and engine start signal for alternative source. Adjustable from zero to six seconds, and factory set for one second.
2. Sources shall be mechanically and electronically interlocked to prevent closing both sources on the load at the same time.
3. Fully automatic break-before-make operation with center off position.

E. Automatic Transfer-Switch Features:

1. Undervoltage Sensing for Each Phase of Normal Source: Sense low phase-to-ground voltage on each phase. Pickup voltage shall be adjustable from 85 to 100 percent of nominal, and dropout voltage is adjustable from 75 to 98 percent of pickup value. Factory set for pickup at 90 percent and dropout at 85 percent.
2. Adjustable Time Delay: For override of normal-source voltage sensing to delay transfer and engine start signals. Adjustable from zero to six seconds, and factory set for one second.
3. Voltage/Frequency Lockout Relay: Prevent premature transfer to generator. Pickup voltage shall be adjustable from 85 to 100 percent of nominal. Factory set for pickup at 90 percent. Pickup frequency shall be adjustable from 90 to 100 percent of nominal. Factory set for pickup at 95 percent.

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4. Time Delay for Retransfer to Normal Source: Adjustable from 0 to 30 minutes, and factory set for 10 minutes to automatically defeat delay on loss of voltage or sustained undervoltage of emergency source, provided normal supply has been restored.
5. Test Switch: Simulate normal-source failure.
6. Switch-Position Pilot Lights: Indicate source to which load is connected.
7. Source-Available Indicating Lights: Supervise sources via transfer-switch normal- and emergency-source sensing circuits.
 - a. Normal Power Supervision: Green light with nameplate engraved "Normal Source Available."
 - b. Emergency Power Supervision: Red light with nameplate engraved "Emergency Source Available."
8. Unassigned Auxiliary Contacts: Two normally open, single-pole, double-throw contacts for each switch position, rated 10 A at 240-V ac.
9. Transfer Override Switch: Overrides automatic retransfer control so automatic transfer switch will remain connected to emergency power source regardless of condition of normal source. Pilot light indicates override status.
10. Engine Starting Contacts: One isolated and normally closed, and one isolated and normally open; rated 10 A at 32-V dc minimum.
11. Engine Shutdown Contacts: Time delay adjustable from zero to five minutes, and factory set for five minutes. Contacts shall initiate shutdown at remote engine-generator controls after retransfer of load to normal source.
12. Engine-Generator Exerciser: Solid-state, programmable-time switch starts engine generator and transfers load to it from normal source for a preset time, then retransfers and shuts down engine after a preset cool-down period. Initiates exercise cycle at preset intervals adjustable from 7 to 30 days. Running periods are adjustable from 10 to 30 minutes. Factory settings are for 7-day exercise cycle, 20-minute running period, and 5-minute cool-down period. Exerciser features include the following:
 - a. Exerciser Transfer Selector Switch: Permits selection of exercise with and without load transfer.
 - b. Push-button programming control with digital display of settings.
 - c. Integral battery operation of time switch when normal control power is not available.

2.4 TRANSFER SWITCH ACCESSORIES

A. Bypass/Isolation Switches:

1. Source Limitations: Same manufacturer as transfer switch in which installed.
2. Comply with requirements for Level 1 equipment according to NFPA 110.
3. Description: Manual type, arranged to select and connect either source of power directly to load, isolating transfer switch from load and from both power sources. Include the following features for each combined automatic transfer switch and bypass/isolation switch:
 - a. Means to lock bypass/isolation switch in the position that isolates transfer switch with an arrangement that permits complete electrical testing of

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transfer switch while isolated. Interlocks shall prevent transfer-switch operation, except for testing or maintenance, while automatic transfer switch is isolated.

- b. Provide means to make power available to transfer-switch control circuit for testing and maintenance purposes.
 - c. Drawout Arrangement for Transfer Switch: Provide physical separation from live parts and accessibility for testing and maintenance operations. Transfer switch and bypass/isolation switch shall be in isolated compartments.
 - d. Transition:
 - 1) Provide open transition operation when transferring between power sources.
 - e. Bypass/Isolation Switch Current, Voltage, Closing, and Short-Circuit Withstand Ratings: Equal to or greater than those of associated automatic transfer switch, and with same phase arrangement and number of poles.
 - f. Contact temperatures of bypass/isolation switches shall not exceed those of automatic transfer-switch contacts when they are carrying rated load.
 - g. Automatic and Nonautomatic Control: Automatic transfer-switch controller shall also control the bypass/isolation switch.
 - h. Legend: Manufacturer's standard legend for control labels and instruction signs shall describe operating instructions.
 - i. Maintainability: Fabricate to allow convenient removal of major components from front without removing other parts or main power conductors.
4. Interconnection of Bypass/Isolation Switches with Automatic Transfer Switches: Factory-installed copper bus bars; plated at connection points and braced for the indicated available short-circuit current.

2.5 SOURCE QUALITY CONTROL

- A. Factory test and inspect components, assembled switches, and associated equipment. Ensure proper operation. Check transfer time and voltage, frequency, and time-delay settings for compliance with specified requirements. Perform dielectric strength test complying with NEMA ICS 1.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Floor-Mounting Switch: Anchor to floor by bolting.
 - 1. Install transfer switches on cast-in-place concrete equipment base(s). Comply with requirements for equipment bases and foundations specified in Section 033000 "Cast-in-Place Concrete."
 - 2. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases.
 - 3. Provide workspace and clearances required by NFPA 70.

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- B. Identify components according to Section 260553 "Identification for Electrical Systems."
- C. Set field-adjustable intervals and delays, relays, and engine exerciser clock.
- D. Comply with NECA 1.

3.2 CONNECTIONS

- A. Ground equipment according to Section 260526 "Grounding and Bonding for Electrical Systems."
- B. Connect wiring according to Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- B. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
 - 1. After installing equipment and after electrical circuitry has been energized, test for compliance with requirements.
 - 2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
 - 3. Measure insulation resistance phase-to-phase and phase-to-ground with insulation-resistance tester. Use test voltages and procedure recommended by manufacturer. Comply with manufacturer's specified minimum resistance.
 - a. Check for electrical continuity of circuits and for short circuits.
 - b. Inspect for physical damage, proper installation and connection, and integrity of barriers, covers, and safety features.
 - c. Verify that manual transfer warnings are properly placed.
 - d. Perform manual transfer operation.
 - 4. After energizing circuits, demonstrate interlocking sequence and operational function for each switch at least three times.
 - a. Simulate power failures of normal source to automatic transfer switches and of emergency source with normal source available.
 - b. Simulate loss of phase-to-ground voltage for each phase of normal source.
 - c. Verify time-delay settings.
 - d. Verify pickup and dropout voltages by data readout or inspection of control settings.
 - e. Verify proper sequence and correct timing of automatic engine starting, transfer time delay, retransfer time delay on restoration of normal power, and engine cool-down and shutdown.
- C. Coordinate tests with tests of generator and run them concurrently.

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SECTION 263600

- D. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation and contact resistances and time delays. Attach a label or tag to each tested component indicating satisfactory completion of tests.
- E. Remove and replace malfunctioning units and retest as specified above.
- F. Prepare test and inspection reports.
- G. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each switch. Remove all access panels so joints and connections are accessible to portable scanner.
 - 1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each switch 11 months after date of Substantial Completion.
 - 2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
 - 3. Record of Infrared Scanning: Prepare a certified report that identifies switches checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain transfer switches and related equipment as specified below. Refer to Section 017900 "Demonstration and Training."
- B. Coordinate this training with that for generator equipment.

END OF SECTION 263600

CONCRETE PAVING
SECTION 321313

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Provide all labor, materials and equipment as necessary to complete all work as indicated on the Drawings and specified herein.
 - 1. Concrete Pads
- B. Related Requirements:
 - 1. Section 321373 "Concrete Paving Joint Sealants" for joint sealants in expansion and contraction joints within concrete paving and in joints between concrete paving and asphalt paving or adjacent construction.
 - 2. Section 312000 "Earth Moving" for aggregate subbase and base courses and for aggregate pavement shoulders.

1.3 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash, slag cement, and other pozzolans.
- B. W/C Ratio: The ratio by weight of water to cementitious materials.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - 1. Submit documentation from ready mix supplier showing shrinkage within specified limits of ASTM C 157, with results for minimum of 3 specimens.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified ready-mix concrete manufacturer.
- B. Material Certificates: For the following, from manufacturer:
 - 1. Cementitious materials.
 - 2. Steel reinforcement and reinforcement accessories.
 - 3. Admixtures.

CONCRETE PAVING
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4. Curing compounds.
5. Applied finish materials.
6. Bonding agent or epoxy adhesive.

C. Material Test Reports: For each of the following:

1. Aggregates.

D. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities" (Quality Control Manual - Section 3, "Plant Certification Checklist").

B. Testing Agency Qualifications: Qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.

1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Owner will engage a qualified independent testing agency to perform preconstruction testing on concrete paving mixtures.

1.8 FIELD CONDITIONS

A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

B. Cold-Weather Concrete Placement: Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing, or low temperatures. Comply with ACI 306.1 and the following:

1. When air temperature has fallen to or is expected to fall below 40 deg F uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
2. Do not use frozen materials or materials containing ice or snow.
3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in design mixtures.

CONCRETE PAVING
SECTION 321313

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

2.2 FORMS

- A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces.
- B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces.

2.3 STEEL REINFORCEMENT

- A. Plain-Steel Welded-Wire Reinforcement: ASTM A 1064, fabricated from as-drawn steel wire into flat sheets.
- B. Reinforcing Bars: ASTM A 615, Grade 60; deformed.
- C. Epoxy-Coated Reinforcing Bars: ASTM A 775 or ASTM A 934; with ASTM A 615, Grade 60 deformed bars.
- D. Joint Dowel Bars: ASTM A 615, Grade 60) plain-steel bars. Cut bars true to length with ends square and free of burrs.
- E. Tie Bars: ASTM A 615, Grade 60 deformed.
- F. Hook Bolts: ASTM A 307, Grade A, internally and externally threaded. Design hook-bolt joint assembly to hold coupling against paving form and in position during concreting operations, and to permit removal without damage to concrete or hook bolt.
- G. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded-wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete specified, and as follows:
 - 1. Equip wire bar supports with sand plates or horizontal runners where base material will not support chair legs.
 - 2. For epoxy-coated reinforcement, use epoxy-coated or other dielectric-polymer-coated wire bar supports.

2.4 CONCRETE MATERIALS

- A. Cementitious Materials: Use the following cementitious materials, of same type, brand, and source from a New York State Department of Transportation approved supplier throughout Project:
 - 1. Portland Cement: ASTM C 150, gray portland cement Type II
 - 2. Fly Ash: ASTM C 618, Class F.
 - a. Maximum fly ash content: 15% of concrete design mixture.

CONCRETE PAVING
SECTION 321313

- B. Normal-Weight Aggregates: ASTM C 33, coarse aggregate, uniformly graded. Provide aggregates from a single source.
 - 1. Maximum Coarse-Aggregate Size: 3/4 inches nominal.
 - 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- C. Exposed Aggregate: Selected, hard, and durable; washed; free of materials with deleterious reactivity to cement or that cause staining; from a single source, with gap-graded coarse aggregate as follows:
 - 1. Aggregate Sizes: 1/2 to 3/4 inch nominal.
 - 2. Aggregate Source, Shape, and Color: Match adjacent.
- D. Air-Entraining Admixture: ASTM C 260.
- E. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material.
 - 1. Water-Reducing Admixture: ASTM C 494, Type A.
 - 2. Retarding Admixture: ASTM C 494, Type B.
 - 3. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.
- F. Water: Potable and complying with ASTM C 94.

2.5 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular, film forming, manufactured for application to fresh concrete.
- B. Absorptive Cover: AASHTO M 182, Class 3, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd.
- C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- D. Water: Potable.
- E. Clear, Waterborne, Membrane-Forming Curing and Anti-Spaulding Compound: ASTM C 309, Type 1, Class B, Dissipating. Product composed of hydrocarbon resins and dissipating agents that begin to break down upon exposure to UV light and traffic within 4 to 6 weeks after application, resulting in a film removable with standard degreasing agents and mechanized scrubbing actions so as to not impair the later addition of applied finishes.
 - 1. Manufacturer: Subject to compliance with requirements, available manufacturers that may be incorporated into the Work include; but are not limited to, the following:
 - a. ChemMasters
 - b. Euclid Chemical Co.
 - c. Sika Corporation

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2.6 RELATED MATERIALS

- A. Joint Fillers: Expansion- and isolation-joint filler strips: ASTM D 1751, asphalt-saturated cellulosic fiber
- B. Slip-Resistive Aggregate Finish: Factory-graded, packaged, rustproof, nonglazing, abrasive aggregate of fused aluminum-oxide granules or crushed emery aggregate containing not less than 50 percent aluminum oxide and not less than 20 percent ferric oxide; unaffected by freezing, moisture, and cleaning materials.
- C. Bonding Agent: ASTM C 1059, Type II, non-redispersible acrylic emulsion or styrene butadiene, formulated as an integral adhesive for cement bond coats, mortars, and concrete to improve bond strength and chemical resistance.
- D. Chemical Surface Retarder: Water-soluble, liquid, set retarder with color dye, for horizontal concrete surface application, capable of temporarily delaying final hardening of concrete to a depth of 1/8 to 1/4 inch.

2.7 REPAIR TOPPING AND MORTARS

- A. Rapid-Setting Horizontal Repair Mortar: ASTM C 928, rapid-setting, rapid-hardening cement-based single-component repair mortar that can be applied in thicknesses from 1/2 inch (12 mm) to 6 inch (150 mm).
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide USG; ECOFIX Rapid Repair Patch or a comparable product by one of the following:
 - a. BASF Corporation-Construction Systems.
 - b. Sika Corporation
 - 2. Bonding Agent: Product of topping manufacturer recommended for substrate, conditions, and application.
 - 3. Aggregate: Well-graded, washed pea gravel, 3/8 inch (10 mm) as recommended by topping manufacturer.
 - 4. Compressive Strength: Not less than 6500 psi at 1 day and 10,500 psi at 28 days when tested according to ASTM C 109.
 - 5. Freeze-Thaw Resistance: 1200 Cycles when tested in according to ASTM C666.
 - 6. Salt Scaling Resistance: Excellent when tested in according to ASTM C672.

2.8 CONCRETE MIXTURES

- A. Prepare design mixtures, proportioned according to ACI 301 (ACI 301M), for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.
 - 1. Use a qualified independent testing agency for preparing and reporting proposed concrete design mixtures for the trial batch method.
 - 2. When automatic machine placement is used, determine design mixtures and obtain laboratory test results that comply with or exceed requirements.

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- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete according to ACI 301 requirements for concrete exposed to deicing chemicals.
- C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:
 - 1. Air Content: 6 percent plus or minus 1 percent for 1-inch to 1-1/2-inch nominal maximum aggregate size.
- D. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.
- E. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
 - 1. Use non-chloride accelerator for all concrete less than 8 inches thick, placed at air temperatures below 50 degrees Fahrenheit.
- F. Concrete Mixtures: Normal-weight concrete.
 - 1. Compressive Strength (28 Days): 4000 psi.
 - 2. Maximum W/C Ratio at Point of Placement: 0.40.
 - 3. Slump Limit: 4 inches, plus or minus 1 inch.

2.9 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C 94 and ASTM C 1116. Furnish batch certificates for each batch discharged and used in the Work.
 - 1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.
- B. Project-Site Mixing: Measure, batch, and mix concrete materials and concrete according to ASTM C 94/C 94M. Mix concrete materials in appropriate drum-type batch machine mixer.
 - 1. For concrete batches of 1 cu. yd. (0.76 cu. m) or smaller, continue mixing at least 1-1/2 minutes, but not more than 5 minutes after ingredients are in mixer, before any part of batch is released.
 - 2. For concrete batches larger than 1 cu. yd. (0.76 cu. m), increase mixing time by 15 seconds for each additional 1 cu. yd. (0.76 cu. m).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.

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- B. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.
 - 1. Completely proof-roll subbase in one direction and repeat in perpendicular direction. Limit vehicle speed to 3 mph (5 km/h).
 - 2. Correct subbase with soft spots and areas of pumping or rutting exceeding depth of 1/2 inch according to requirements in Section 312000 "Earth Moving."
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.4 STEEL REINFORCEMENT INSTALLATION

- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.
- C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.
- D. Install welded-wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh, and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

3.5 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
 - 1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.

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- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
1. Continue steel reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of paving strips unless otherwise indicated.
 2. Butt Joints: Use bonding agent at joint locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
1. Locate expansion joints at intervals of 50 feet (15.25 m) unless otherwise indicated.
 2. Extend joint fillers full width and depth of joint.
 3. Terminate joint filler not less than 1/2 inch (13 mm) or more than 1 inch (25 mm) below finished surface if joint sealant is indicated.
 4. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
 5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
 6. During concrete placement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows, to match jointing of existing adjacent concrete paving:
1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 1/4-inch radius. Repeat grooving of contraction joints after applying surface finishes.
 2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes.

3.6 CONCRETE PLACEMENT

- A. Before placing concrete, inspect and complete formwork installation, steel reinforcement, and items to be embedded or cast-in.
- B. Remove snow, ice, or frost from subbase surface placing concrete. Do not place concrete on frozen surfaces.

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- C. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- D. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.
- E. Do not add water to concrete during delivery or at Project site. Do not add water to fresh concrete after testing.
- F. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- G. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.
 - 1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement, dowels and joint devices.
- H. Screed paving surface with a straightedge and strike off.
- I. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleedwater appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.
- J. Curbs and Gutters: Use design mixture for automatic machine placement. Produce curbs and gutters to required cross section, lines, grades, finish, and jointing.
- K. Slip-Form Paving: Use design mixture for automatic machine placement. Produce paving to required thickness, lines, grades, finish, and jointing.
 - 1. Compact subbase and prepare subgrade of sufficient width to prevent displacement of slip-form paving machine during operations.
- L. Dowels shall be used when proposed concrete pavement is installed abutting existing concrete pavement and/or existing building walls and foundations.
- M. Cold-Weather Placement: Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing or low temperatures. Comply with ACI 306.1 and the following:
 - 1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
 - 2. Do not use frozen materials or materials containing ice or snow.
 - 3. Do not use calcium chloride, salt or other materials containing antifreeze agents or chemical accelerators unless otherwise specified an approved in design mixtures.

CONCRETE PAVING SECTION 321313

3.7 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
 - 1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.
 - 2. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular to line of traffic.

3.8 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Cure concrete in accordance with ACI 308.1 immediately after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, curling and sealant compound or a combination of these as follows:
 - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
 - a. Water Cure continuously for seven days utilizing sprinklers, soaker hoses, or ponding. Take care to prevent erosion damage to the surface of the concrete.
 - b. Continuous water-fog spray.
 - c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers. Provide continuous supply of moisture such as sprinklers or soaker hoses when high temperature, low humidity, or windy conditions prevail. Do not allow Absorbent Cover materials to dry out during specified curing period.

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2. **Moisture-Retaining-Cover Curing:** Cover concrete surfaces with moisture-retaining cover, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. On flat surfaces such as pavements, the cover shall extend beyond the edges of the slab at least twice the thickness of the slab. The cover shall be placed flat on the concrete surface, avoiding wrinkles, to minimize mottling immediately after wetting the slab to rejection. It shall be placed and weighted so that it remains in contact with the concrete during the specified duration of curing. Windrows of sand or earth, or pieces of lumber shall be placed along all edges and joints in the film to retain moisture and prevent wind from getting under the film and displacing it. Immediately repair any holes or tears occurring during installation or curing period, using cover material and waterproof tape.
3. **Curing Compound:** Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating, and repair damage during curing period.
4. **Curing and Sealing Compound meeting ASTM C1315:** Apply uniformly pavement indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

3.9 PAVING TOLERANCES

A. Comply with tolerances in ACI 117 and as follows:

1. Elevation: 1/4 inch.
2. Thickness: Plus 3/8 inch, minus 1/4 inch.
3. Surface: Gap below 10-foot- long; unlevelled straightedge not to exceed 1/2 inch.
4. Alignment of Tie-Bar End Relative to Line Perpendicular to Paving Edge: 1/2 inch per 12 inches of tie bar.
5. Lateral Alignment and Spacing of Dowels: 1 inch.
6. Vertical Alignment of Dowels: 1/4 inch.
7. Alignment of Dowel-Bar End Relative to Line Perpendicular to Paving Edge: 1/4 inch per 12 inches of dowel.
8. Joint Spacing: 2 inches.
9. Contraction Joint Depth: Plus 1/4 inch, no minus.
10. Joint Width: Plus 1/8 inch, no minus.

3.10 REPAIR AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.
- B. Drill test cores, where directed by Owner, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with portland cement concrete bonded to paving with epoxy adhesive.

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SECTION 321313

- C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 321313

CHAIN LINK FENCE
SECTION 323113

PART 1 - GENERAL

1.1 DEFINITIONS

- A. Height of Fence: Distance measured from the top of concrete footing to the top of chain link fabric.

1.2 SUBMITTALS

- A. Shop Drawings: Complete detailed drawings for each height and style of fence and gate required. Include separate schedule for each listing all materials required and technical data such as size, weight, and finish, to ensure conformance to specifications.
- B. Product Data: Manufacturer's catalog cuts, specifications, and installation instructions for each item specified.
- C. Samples:
 - 1. Fence Fabric: Minimum one square foot.
 - 2. Fence and Gate Posts: Two each, one foot long, if requested.
 - 3. Miscellaneous Materials and Accessories: One each, if requested.

1.3 QUALITY ASSURANCE

- A. Comply with standards of the Chain Link Fence Manufacturer's Institute.
- B. Provide steel fence and related gates as a complete compatible system including necessary erection accessories, fittings, and fastenings.
- C. Posts and rails shall be continuous without splices.
- D. Concrete batching plants shall be currently approved as concrete suppliers by the New York State Department of Transportation.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Class B Steel Tubing (Option):
 - 1. SS-40 Fence Pipe by Allied Tube & Conduit Corp., 16100 S. Lathrop Ave., Harvey, IL, 60426, (800) 882-5543.
 - 2. Tuf-40 Fence Framework by American Tube and Pipe Co., Inc., 2525 N. 27th Ave., Phoenix, AZ 85009, (800) 669-8823.

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2.2 STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH)

A. End Posts, Corner Posts and Pull Posts:

1. Class B Steel Tubing: 2.875 inches OD, 4.64 pounds per linear foot.

B. Line Posts:

1. Class B Steel Tubing: 2.375 inches OD, 3.11 pounds per linear foot.

2.3 STEEL FABRIC

A. One-piece widths for fence heights up to 12'-0".

B. Chain link, 2 inch mesh, No. 9 gauge.

C. Selvages: Top edge and bottom edge twisted and barbed.

2.4 SWING GATE POSTS

A. Single width of gate 6'-0" to 12'-0" wide or over 10'-0" high:

1. Class B Steel Tubing: 4 inches OD, 6.56 pounds per linear foot.

2.5 SWING GATE FRAMES

A. Height: 6'-0" - 12'-0", or leaf width exceeding 8'-0":

1. Class B Steel Tubing: 1.90 inches OD, 2.28 pounds per linear foot.

B. Assemble gate frames by welding or with special steel fittings and rivets for rigid connections. Install mid-height horizontal rails on gates over 10 feet high. When width of gate leaf exceeds 10 feet, install mid-distance vertical bracing of the same size and weight as frame members. When either horizontal or vertical bracing is not required, provide truss rods as cross bracing to prevent sag or twist. Top rail and bottom rail are required for each gate leaf.

2.6 SWING GATE HARDWARE

A. Hinges: Non-lift-off type, offset to permit 180 degree swing, and of suitable size and weight to support gate. Provide 1-1/2 pair of hinges for each leaf over 6 feet high.

B. Latch: Forked type for single gates 10 feet wide or less. Drop bar type with keeper for double gates and single gates over 10 feet wide complete with flush plate set in concrete. Drop bar length shall be 2/3 the height of the gate. Padlock eye shall be an integral part of latch construction.

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C. Locks:

1. Drop bar type complete with flush plate set in concrete or in existing asphalt drive surface. For double gates provide full height drop bar and keeper. Padlock eye shall be an integral part of latch construction.
2. 41B series padlocks manufactured by Best Lock and keyed alike. Provide 8 duplicate keys.

D. Holdbacks for Vehicle Gates: Type which automatically engages the gate leaf and holds it in open position until manually released.

2.7 MISCELLANEOUS MATERIALS AND ACCESSORIES

A. Rails and Post Braces:

1. Class B Steel Tubing: 1.660 inches OD, 1.84 pounds per linear foot.

B. Fittings and Post Tops: Steel, wrought iron, or malleable iron.

1. Fasteners: Tamper-resistant cadmium plated steel screws.

C. Stretcher Bars: One piece equal to full height of fabric, minimum cross-section 3/16 inch by 3/4 inch.

D. Metal Bands (for securing stretcher bars): Steel, wrought iron, or malleable iron.

E. Wire Ties: Conform to American Steel Wire gauges.

1. For tying fabric to line posts, rails and braces: 9 gauge (.1483 inch) steel wire.
2. For tying tension wire to fabric: 11 gauge (.1205 inch) steel hog rings.

F. Truss Rods: 3/8 inch diameter.

G. Concrete: Portland Cement concrete having a minimum compressive strength of 2500 psi at 28 days.

H. Spiral Paper Tubes:

1. Sonotube by Sonoco Products Co., North Second St., Hartsville, SC 29550, (800) 377-2692.
2. Sleaf/tubes by Jefferson Smurfit Corp., P.O. Box 66820, St. Louis, Mo 63166, (314) 746-1100.

I. Cold Galvanizing Compound: Single component compound giving 93 percent pure zinc in the dried film, and meeting the requirements of DOD-P-21035A (NAVY).

J. Tension Wire: 7 gauge coiled spring steel wire.

K. Angle Beams, I Beams, and Steel Shapes: ASTM A 36.

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- L. Bolts and Nuts: ASTM A 307, Grade A.
- M. Expansion Anchors: $\frac{3}{4}$ inch diameter with a minimum 4-3/4" embedment depth, Stainless Steel KWIK Bolt 3 (KB3) by Hilti, Inc. www.us.hilti.com ; 1-800-879-8000.
- N. Shrink-Resistant Grout (Ferrous): Factory-packaged, non-catalyzed, ferrous aggregate mortar grouting compound selected from the following:
 - 1. Embecco 636 by Master Builders, 23700 Chagrin Blvd., Cleveland, OH 44122, (800) 227-3350.
 - 2. Ferrolith G-NC by Sonneborn, Chemrex, Inc., 57-46 Flushing Ave., Maspeth, NY 11378, (800) 433-9517.
 - 3. Ferro-Grout by L&M Construction Chemicals, 14851 Calhoun Rd., Omaha, NB 68152, (800) 362-3331.
 - 4. Vibra-Foil by A.C. Horn, Inc., Tamm Industries, 7405 Production Dr., Mentor, OH 44060, (800) 862-2667.

2.8 BARBED WIRE

- A. Three strand 12-1/2 gauge steel wire, with 14 gauge 4-point steel barbs spaced 5 inches oc.
- B. Extension Arms: Pressed steel, wrought iron, or malleable iron, complete with provision for anchorage to posts (including light posts) and attaching 3 rows of barbed wire to each arm.
 - 1. Type: Single 45 degree arm; one for each post.

2.9 FINISHES

- A. Steel Framework:
 - 1. Class B Steel Tubing: Exterior; 1.8 ounces zinc per square foot plus chromate conversion coating and clear polyurethane. Interior; zinc rich organic coating. Galvanized in accordance with ASTM A 53.
- B. Fabric:
 - 1. Galvanized Finish: ASTM A 392 class II zinc coated after weaving, with 2.0 ounces per square foot.
- C. Fence and Gate Hardware, Miscellaneous Materials, Accessories:
 - 1. Wire Ties: Galvanized Finish, ASTM A 90 1.6 ounces zinc per square foot, or aluminized finish, ASTM A 809 0.40 ounces per square foot.
 - 2. Hardware and Miscellaneous Items: Galvanized Finish, ASTM A 153 (Table 1).
 - 3. Extension Arms: Hot-dip galvanized after fabrication, ASTM 123, 2.0 ounces zinc per square foot.
 - 4. Angle Beams, I Beams, and Steel Shapes: Galvanized in accordance with ASTM A 123, 2.0 ounces zinc per square foot.

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D. Barbed Wire and Tension Wire:

1. Galvanized Finish: ASTM A 121 class 3, 0.80 ounces per square foot.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clear and grub along fence line as required to eliminate growth interfering with alignment. Remove debris from County property.
- B. Do not begin installation of fence in areas where existing trees are to be removed, until backfill and finished grading of these areas has been completed. Remove debris from County property.

3.2 INSTALLATION

- A. Space posts equidistant in the fence line with a maximum of 10 feet on center.
- B. Setting Posts in Earth: Drill holes for post footings. If existing grade at the time of installation is below finished grade, provide spiral paper tubes to contain concrete to finish grade elevation. Set posts in center of hole and fill hole with concrete. Plumb and align posts. Vibrate or tamp concrete for consolidation. Finish concrete in a dome shape above finish grade elevation to shed water. Do not attach fabric to posts until concrete has cured a minimum of 7 days. Remove debris from County property.
- C. Setting Posts in Rock: Drill holes into solid rock one inch wider than post diameter, 18 inches deep for end, pull, corner, and gate posts, and 12 inches deep for line posts. Set posts into holes and fill annular space with shrink-resistant grout.
- D. Locate corner posts at corners and at changes in direction. Use pull posts at all abrupt changes in grade and at intervals no greater than 500 feet. On runs over 500 feet, space pull posts evenly between corner or end posts. On long curves, space pull posts so that the strain of the fence will not bend the line posts.
- E. Install intermediate rails in one piece between posts and flush with post on fabric side using special offset fittings where necessary.
- F. Diagonally brace corner posts, pull posts, end posts, and gate posts to adjacent line posts with truss rods and turnbuckles.
- G. Attach fabric to security side of fence. Maintain a 2 inch clearance above finished grade except when indicated otherwise. Thread stretcher bars through fabric using one bar for each gate and end post and 2 for each corner and pull post. Pull fabric tight so that the maximum deflection of fabric is 2 inches when a 30 pound pull is exerted perpendicular to the center of a panel. Maintain tension by securing stretcher bars to posts with metal bands spaced 15 inches oc. Fasten fabric to steel framework with wire ties spaced 12 inches oc for line posts and 24 inches oc for rails and braces. Bend back wire ends to prevent injury. Tighten stretcher bar bands, wire ties, and other fasteners securely.

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- H. Position bolts for securing metal bands and hardware so nuts are located opposite the fabric side of fence. Tighten nuts and cut off excess threads so no more than 1/8 inch is exposed. Peen ends to prevent loosening or removal of nuts.
 - 1. Secure post tops and extension arms with tamper-resistant screws.
- I. Install gates plumb and level and adjust for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary.
- J. Tension Wire: Support top and bottom edge of fabric with tension wire. Weave tension wire through fabric or fasten with hog rings spaced 24 inches oc. Tie tension wire to posts with 9 gauge wire ties.
 - 1. Permanently attach barb roots together with twistable stainless steel wire ties or stainless steel hog rings.
 - 2. Cross-tie barb roots with two twistable stainless steel wire ties or stainless steel hog rings on both barbs of a 2-barb splice or the center barb of a 3-barb splice, and at all points of the splice where factory clips are installed on adjoining sections of continuous coil.
- K. Wire brush and repair welded and abraded areas of galvanized surfaces with one coat of cold galvanizing compound.
- L. Restore disturbed ground areas to original condition. Topsoil and seed to match adjacent areas.

END OF SECTION