Department of Finance

515 North Avenue New Rochelle, NY 10801 (914) 654-2065 Edward Ritter Commissioner Todd Castaldo Deputy Commissioner



City of New Rochelle, New York

CONTRACT DOCUMENTS

1923 Building Renovations (Phase 1) – Flowers Park 1 City Park Road

IN THE CITY OF NEW ROCHELLE, NEW YORK Spec No. 5423 Due: February 16, 2022 at 3:00 P.M.

TABLE OF CONTENTS

	PAGES
INVITATION TO BIDDERS	1
"SCHEDULE A" TO THE GENERAL AGREEMENT	2
INSURANCE REQUIREMENTS	3
SECTION A – INSTRUCTIONS TO BIDDERS	A1 – A21
I. PROCEDURES OF SUBMITTING A BID	A1 - A3
A. CONTENTS	AI - AS AI
B. EXAMINATION OF PLANS, SPECIFICATIONS, ADDENDA, ETC	A1 A1
C. BIDDING TIME AND FORM	A1 A1
D. BID TO COVER EVERY ITEM	A1
E. BIDDING FORM NOT TO BE TAKEN APART	A1 A1
F. CERTIFIED CHECK, CASHIER'S CHECK, BID BOND or CASH	A1 A2
G. APPROXIMATE ESTIMATES of QUANTITIES	A2 A2
H. CONSTRUCTION CONDITIONS	A2 A3
I. TIME FOR COMPLETION	A3
J. REJECTION OF BIDS	A3
J. REJECTION OF BIDS	AJ
II. CONDITIONS TO BE MET BY SUCCESSFUL BIDDER	A4 - A17
A. COMPLIANCE WITH CONTRACT PROVISIONS	A4
B. COMPLIANCE WITH LABOR and OTHER LAWS	A4
C. INSURANCE REQUIRED	A4
D. BOND REQUIRED	A4
E. BIDDER TO BE COMPETENT	A5
F. AWARD OF CONTRACT	A5
G. NOTIFICATION to CONTRACTOR - EEO	A5
H. NONDISCRIMINATION AND EEO POLICY STATEMENT	A6 – A9
I. NYS AFFIRMATIVE ACTION REQUIREMENTS	A13 – A17
III. CERTIFICATIONS (BIDDER AND SUBCONTRACTOR(S))	A18 – A19
IV. COMPLIANCE AND ENFORCEMENT	A20 - A21
MONTHLY EMPLIYEMENT UTILIZATION REPORT/INSTRUCTIONS	A11 – A12
SECTION B – BIDDER'S PROPOSAL	B1 – B11
SCHEDULE OF VALUES	B10
SECTION C – GENERAL AGREEMENT	C1 – C43
1. GENERAL	C1 – C8
2. CONDUCT AND INSPECTION OF WORK	C8 - C12
3. COMPLIANCE WITH LAWS AND REGULATIONS	C12 - C15
4. PAYMENT FOR WORK	C15 – C23
5. ADDENDUM TO SECTION C – GENERAL AGREEMENT	
SECTION D – EXECUTION OF CONTRACT	D1 - D5
SECTION E – FORM OF BONDS	E1 – E4
SECTION F - PREVAILING WAGE RATES	F1
PROJECT MANUAL/TECHNICAL SPECIFICATIONS	

INVITATION TO BIDDERS CITY OF NEW ROCHELLE, NEW YORK DEPARTMENT OF FINANCE SPEC. No. 5423

- Sealed bids will be received by the DEPARTMENT OF FINANCE OFFICE OF PURCHASING for the CITY OF NEW ROCHELLE, NEW YORK, at CITY HALL, 515 North Avenue, New Rochelle, New York, until February 16, 2022, at 3:00 p.m. for: <u>1923 Building Renovations (Phase 1) – Flowers Park</u>.
- Each bid must be accompanied by a DEPOSIT in the form of bid bond, certified check or cashier's check, made payable to the CITY OF NEW ROCHELLE, NEW YORK, in the amount of five percent (5%) of the bid price (CASH WILL NOT BE ACCEPTED). The City reserves the right to reject any or all bids.
- Copies of Contract Documents may be obtained, in person, at the DEPARTMENT OF FINANCE OFFICE OF PURCHASING beginning at 4:00 p.m. on January 12, 2022. Bids can be directly downloaded from the City's website at <u>http://www.newrochelleny.com/bids.aspx</u> under Bid Opportunities. No fee is associated when obtaining copies of Contract Documents. Addendums and response to questions are posted to the City's website as well.
- 4. Firms qualified and certified as Minority Business Enterprises (MBE) and Women Business Enterprises (WBE) are strongly encouraged to submit a bid.
- 5. The City of New Rochelle is a supporter of the Westchester Affirmative Action Equal Employment Opportunity requirements and agreements. In compliance with Section 3, the City of New Rochelle encourages employment first of New Rochelle residents.
- 6. Please note that the Contractor shall pay the higher wage rates of either the prevailing New York State Wage Rates or Davis Bacon.
- 7. A pre-bid field meeting will be held at 1 City Park Road, New Rochelle, NY 10801. Please meet in front of the 1923 Flowers Park Building on January 25, 2022, at 10:00 a.m. There will be a snow date of January 26, 2022, at 10:00 a.m. Notice will be posted on the City's website in the event that the snow date is required. Please check the City's website prior to departure. For questions contact Sandi Murray, Purchasing Specialist via email at smurray@newrochelleny.com. Copy all questions to Todd Castaldo, Deputy Finance Commissioner at tcastald@newrochelleny.com. All questions must be submitted by 12:00 p.m. on January 31, 2022. Answers to all questions will be posted by February 03, 2022, at 3:00 p.m.
- 8. <u>General Conditions Referenced in Contract Bid Documents:</u>

See Schedule "A", attached.

9. Insurance Requirements & Endorsements – Referenced in Contract Bid Documents Section C:

See Schedule "A", attached.

SCHEDULE "A" TO THE GENERAL AGREEMENT

Spec No.: <u>5423</u>

Project Description: <u>1923 Building Renovations (Phase 1) – Flowers Park</u>				
<u>Reference</u>	Item	<u>Requirement</u>		
Information for Bidders	Bid Security	5% Bid Amount		
Information for Bidders	Performance Security	100% of Contract Amount		
Agreement (Article 8)	Time for Completion	150 Days		
Agreement (Article 8)	Liquidated Damages	For Each Consecutive Calendar Day Over Completion Time <u>\$250.00</u>		
Agreement (Article 14)	Subcontracts	Not to Exceed 49% of the Contract		
Agreement (Article 20)	Retained Percentage	5% of Work Completed & Materials Furnished		
Agreement (Article 22)	Insurance	See Attached		
Agreement (Article 21)	Maintenance	2% of the Contract Amount		

** Certificates of Insurance to be provided upon award

Where indicated by an (x), insurance in the amounts specified below are required under this Contract.

(x)	New York State Disability	Statutory
(x)	Worker's Compensation	Statutory
(x)	Employer's Liability	\$1,000,000 each accident
. /		

 (x) Commercial General Liability – Per Occurrence Limit - Bodily Injury, Personal and Advertising Injury, and Property Damage, including Contractual Liability (to be stated on the certificate of insurance)

\$2,000,000	Per Occurrence
\$1,000,000	Products/Completed Operations Aggregate
\$2,000,000	General Aggregate
\$25,000	Maximum Deductible

(x) Automobile Liability - Combined Single Limit - Bodily Injury and Property Damage

\$1,000,000	Per Person Each Occurrence for Bodily Injury
\$100,000	Per Occurrence for Property Damage

The following coverage must be provided (to be stated on the certificate of insurance):

(x) Comprehensive (x) Owned (x) Hired (x) Non-Owned

In addition, if indicated by an (x), the following insurance must be provided and/or hazards must be covered:

- () Excess Insurance
- () Other
- (x) Additional Named Insured:

City of New Rochelle, its officials, employees and agents

() Other

INSURANCE REQUIREMENTS

A. General Requirements

1. Prior to the commencement of Work, the Contractor shall procure and maintain, at its own cost and expense, the types and amounts of insurance indicated in Schedule A of the General Agreement. Such insurance shall be maintained through the date of completion of all required Work. The City reserves the right to increase or decrease the required insurance during the Contract.

2. All insurance required by the Contract shall be obtained at the sole cost and expense of the Contractor; shall be maintained by insurance carriers licensed and admitted to do business in New York State and acceptable to the City; shall be primary and non-contributory to any insurance or self-insurance available to the City; and shall be endorsed to provide written notice be given to the City at least thirty (30) days prior to the cancellation, non-renewal, or material alteration of such policies.

3. The Contractor shall be solely responsible for the payment of all premiums, deductibles and self-insured retentions to which such policies are subject. Deductibles and self-insured retentions must be approved by the City. Such approval shall not be unreasonably withheld. The City reserves the right to withhold portion of payment until the deductible is satisfied.

4. All required insurance policies shall be maintained with companies that have an A.M. Best rating of an A/VII, unless prior written approval is obtained from the City's Corporation Counsel. If, during the term of the policy an insurer's rating falls below A/VII, the insurance must be replaced no later than the renewal date of the policy with an insurer acceptable to the City.

5. The Contractor shall not take any action or omit to take any action that would suspend or invalidate any of the required coverages during the period of time such coverages are required to be in effect.

6. Not less than thirty (30) days prior to the expiration date or renewal date, the Contractor shall supply the City updated replacement certificates of insurance and amendatory endorsements.

8. All insurance policies must be open to inspection and copying by the City upon written request.

B. Workers' Compensation, Employers' Liability, and Disability Benefits Insurance

1. The Contractor shall provide, and shall cause its Subcontractors to provide, Workers' Compensation Insurance, Employers' Liability Insurance, and Disability Benefits Insurance in accordance with the Laws of the State of New York on behalf of all employees providing services under the Contract. Pursuant to General Municipal Law Section 108, this Contract shall be void and of no effect unless the Contractor maintains Workers' Compensation Insurance for the term of this Contract to the extent required and in compliance with the New York State Workers' Compensation Law.

2. For Workers' Compensation Insurance, the Contractor shall submit one of the following forms: C-105.2 Certificate of Workers' Compensation Insurance; U-26.3 - State Insurance Fund Certificate of Workers' Compensation Insurance; Request for WC/DB Exemption (Form CE-200); equivalent or successor forms

used by the New York State Workers' Compensation Board; or other proof of insurance in a form acceptable to the Commissioner and the City Corporation Counsel. For Disability Benefits Insurance, Contractor shall submit DB-120.1 - Certificate of Insurance Coverage Under the NYS Disability Benefits Law; Request for WC/DB Exemption (Form CE-200); equivalent or successor forms used by the New York State Workers' Compensation Board; or other proof of insurance in a form acceptable to the Commissioner and City Corporation Counsel. <u>ACORD forms are not acceptable</u>.

4. The Contractor shall procure Employer's Liability Insurance affording compensation for all employees providing labor or services for whom Workers' Compensation coverage is not a statutory requirement.

C. Commercial General Liability Insurance

1. The Contractor shall provide Commercial General Liability Insurance ("CGL"), written on a per occurrence form and subject to limits specified in Schedule A, covering claims for bodily injury (including death), personal and advertising injury, and property damage, which may arise from any of the operations under this Contract. Coverage under this insurance shall be written on the latest edition of Insurance Services Office ("ISO") Form CG 00 01 or a substitute form providing equivalent coverage and shall cover liability including Premises Operations; Independent Contractors and Subcontractors; Products and Completed Operations; Broad Form Property Damages; Contractual Liability (including the tort liability of another assumed in a contract); and Explosion, Collapse and Underground (XCU).

2. Policies shall name the Contractor as Named Insured and the City of New Rochelle, it officials, employees and agents (and all other entities designated as additional insureds in Schedule A) as Additional Insureds for claims arising from the Contractor's operations under the Contract, with coverage at least as broad as the latest edition of ISO Form CG 20 26 or its equivalent.

3. Products and Completed Operations Coverage shall include a provision that coverage will extend for a period of at least twelve (12) months from the date of final completion and acceptance by the City of all Contractor Work and provide coverage at least as broad as the latest edition of ISO Form CG 20 37 or its equivalent.

D. <u>Commercial Automobile Liability Insurance</u>. The Contractor shall provide Commercial Automobile Liability Insurance for liability arising out of the ownership, maintenance or use of any owned, non-owned and hired vehicles to be used in connection with this Contract, on which the City of New Rochelle, its officials, employees and agents (and all other entities designated as an additional insured in Schedule A) shall be named as an Additional Insured. Coverage shall be at least as broad as the latest edition of ISO Form CA 00 01. If vehicles are used for transporting hazardous materials, the Automobile Liability Insurance shall be endorsed to provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) and proof of MCS 90.

E. Construction Insurance

1. <u>Builder's Risk Insurance</u>. If specified in Schedule A of the General Agreement, the Contractor shall provide Builders Risk Insurance on a completed value form for the total value of the Work through completion of the Work. Such insurance shall be provided on an All Risk basis and include, without limitation, coverage for windstorm (including named windstorm), storm surge, flood and earth movement. Unless waived by Corporation Counsel, it shall include coverage for ordinance and law, demolition and

increased costs of construction, debris removal, pollutant clean up and removal, and expediting costs. Such insurance shall cover, without limitation, (a) all buildings and/or structures involved in the Work, as well as temporary structures at the Site, and (b) any property that is intended to become a permanent part of such building or structure, whether such property is on the Site, in transit or in temporary storage. Policies shall name the Contractor as Named Insured and the City as both an Additional Insured and a Loss Payee as its interest may appear. Such policies shall specify that, in the event a loss occurs at an occupied facility, occupancy of such facility is permitted without the consent of the issuing insurance company. Such insurance may be provided through an Installation Floater, at the Contractor's option, if it otherwise conforms with the requirements herein.

2. Contractors Pollution Liability Insurance. If specified in Schedule A of the General Agreement, the Contractor shall maintain, and cause its Subcontractors doing such Work to maintain, Contractors Pollution Liability Insurance covering any environmental claims, liabilities, loss or damage, including property damage, bodily injury, disease, transporter liability and properties contaminated during transportation caused by pollution conditions that arise from the operations of the Contractor and its Subcontractors of every tier. Such insurance shall provide coverage for actual, alleged or threatened emission, discharge, dispersal, seepage, release or escape of pollutants (including asbestos), including any loss, cost or expense incurred as a result of any cleanup of pollutants (including asbestos), or in the investigation, settlement or defense of any claim, action, or proceedings arising from the operations under the Contract. Such insurance shall be in the Contractor's name and name the City of New Rochelle, its officials, employees and agents (and all other entities designated as an additional insured in Schedule A) as an Additional Insured. Additional Insured coverage shall be at least as broad as provided to the Contractor for this Project. If such insurance is written on a claims-made policy, such policy shall have a retroactive date on or before the effective date of this Contract, and continuous coverage shall be maintained, or an extended discovery period exercised, for a period of not less than three (3) years from the time the Work under this Contract is completed.

F. Other Provisions

1. The Contractor shall file with the Resident Engineer, certificates of insurance and endorsements evidencing compliance with all of the insurance requirements contained in Schedule A to the satisfaction of the City. The Contractor shall not commence the Work unless and until all required proofs of insurance have been submitted to and accepted by the City. Acceptance and/or approval by the City does not relieve the Contractor of any obligations, responsibilities or liabilities under the Contract.

2. The Contractor shall be responsible for providing continuous insurance coverage in the manner, form, and limits required by the Contract and shall be authorized to perform Work only during the effective period of all required coverage. In the event that any of the required insurance policies lapse, are revoked, suspended or otherwise terminated, for whatever cause, the Contractor shall immediately stop all Work, and shall not recommence Work until authorized in writing to do so by the Commissioner.

3. The Contractor shall notify in writing all insurance carriers that issued potentially responsive policies of any loss, damage, occurrence, accident, claim or suit relating to any operations under the Contract (including notice to CGL carriers for events relating to the Contractor's own employees) no later than twenty (20) days after such event. For any policy where the City is an Additional Insured, such notice shall expressly state that "this notice is being given on behalf of the City of New Rochelle as an Additional Insured as well as the Named Insured." The Contractor shall simultaneously send a copy of such notice to

the City's Corporation Counsel. The Contractor shall at all times fully cooperate with the City with regard to such potential or actual claims or suits.

4. The Contractor shall require any Subcontractor, with regard to any operations under this Contract, to procure insurance in accordance with the requirements herein and to name the City of New Rochelle, its officials, employees and agents as an Additional Insured thereunder, with coverage at least as broad as ISO Form 20 26.

5. The Contractor waives all rights against the City, including its officials and employees, for any damages or losses that are covered under any insurance required hereunder (whether or not such insurance is actually procured, or claims are paid thereunder) or any other insurance applicable to the operations of the Contractor and/or its employees, agents, or Subcontractors.

6. In the event the Contractor utilizes a self-insurance program to satisfy any of the insurance requirements hereunder, the Contractor shall ensure that any such self-insurance program provides the City with all rights that would be provided by traditional insurance, including but not limited to the defense and indemnification obligations that insurers are required to undertake in liability policies.

7. The Contractor's failure to secure policies in complete conformity with the foregoing, or to give an insurance company timely notice as required in the Contract, or to do anything else required hereunder, shall constitute a material breach of the Contract. Such breach shall not be waived or otherwise excused by any action or inaction by the City at any time. Insurance coverage provided pursuant to these requirements or otherwise shall not relieve the Contractor of any liability under the Contract, nor shall it preclude the City from exercising any rights or taking such other actions available to it under any other provisions of this Contract or Law.

8. Insurers shall have no right of recovery or subrogation against the City, it being the intention of the parties that the insurance policies so effected shall protect both parties and shall be primary coverage for any and all losses covered by the insurance described above.

9. The Contractor may satisfy its insurance obligations through primary policies or a combination of primary and excess/umbrella policies, so long as all policies provide the scope of coverage required herein and "drop down" for exhausted aggregate limits under the liability coverages referenced above.

10. The City, may at its discretion, and if approved by the City's Corporation Counsel, accept letters of credit or custodial accounts in lieu of bonds and insurance requirements.

SECTION A

INSTRUCTIONS TO BIDDERS

I. PROCEDURES OF SUBMITTING BID

A. CONTENTS

Attention of bidders is called to the contents of the Invitation to Bidders, and Scope of Work a copy of which is annexed hereto and made part here-of. All the work in the Contract is described in detail in the Plans and Specifications and Addenda, if any, Information for Bidders, Bidder's Proposal and Contract Documents, all of which are attached hereto and made a part thereof.

B. EXAMINATION OF PLANS, SPECIFICATIONS, ADDENDA (if any) AND LOCATION

Contractors are particularly requested to examine the plans and specifications and location of the work before bidding.

C. BIDDING TIME AND FORM

Sealed proposals will be received by the Finance Department of the City of New Rochelle, New York, at the time, date and place stated in the Notice to Bidders, for the work herein mentioned, at which time and place they will be publicly opened and read aloud.

The award of the Contract, if awarded, will be made by the Commissioner of Public Work as soon thereafter as practicable.

The Commissioner of Public Work reserves the right to waive minor informalities in any bid, but conditional bids will not be accepted.

Bids must be submitted in a sealed envelope, endorsed with the title of the work, the name of the person or persons making the same and the date of presentation, and containing also the Bid Deposit as prescribed hereafter.

D. <u>BID TO COVER EVERY ITEM</u>

All bids must be made upon the blank form of proposal attached hereto both in writing, and in figures, and must be signed by the bidder. In case of any discrepancies, the written prices shall be considered the price bid.

These prices are to cover the furnishing of all the necessary materials and labor; and the performance of all the work as set forth in the specifications and form of agreement hereto annexed.

E. BIDDING FORM NOT TO BE TAKEN APART

Specifications and bidding blank must not be taken apart but must remain fully bound and in the same condition as when obtained from the Commissioner's office. If this requirement is not fulfilled, bid will be considered informal.

F. CERTIFIED CHECK. CASHIER'S CHECK, CREDIT CARD or BID BOND

No bid will be received and deposited unless accompanied by a certified check, cashier's check, credit card or bid bond. **Certified or Cashier's check shall be made payable to the order of the City of New Rochelle**, for the amount stated in the Notice to Bidders. Bid Bonds must be issued by an approved bonding or insurance company, authorized to do business within the State of New York. Such security shall be an amount of not less than five (5%) per cent of the proposal submitted.

All bid deposits, whether check, credit card, or bond, shall be held by the City of New Rochelle, New York, as security that the person or persons to whom the contract shall be awarded will enterint o a contract therefore and give security required for the performance thereof within ten (10) business days after notice of such award. Such bid deposit must be enclosed in the sealed envelope containing the bid.

All such deposits, except those of the two low bidders, fifty percent (50 %) will be returned to the person or persons making the bids within three (3) business days after the opening of the bids, while the remaining deposit will be returned at fifty percent (50%) as soon as the contract has been properly executed by the bidder to whom the contract shall have been awarded. The second low bidder's security deposit shall be kept by the Owner until such a time it is fairly obvious that the awarded contract(s) has (have) a fair chance of completion. In case the low bidder forfeits the contract, the second low bidder shall be awarded the contract.

If the bidder to whom the contract has been awarded shall refuse or neglect to execute and deliver the same and furnish the security required within ten (10) business days after due notice that the contract has been awarded, the amount of the deposit made shall be retained by the said City as liquidated damages for such neglect or refusal, and shall be paid into the General Fund of the said City, but if the said bidder to whom the contract is awarded shall execute and deliver the contract and furnish the said security within the time specified the amount of the deposit will be returned.

The bidder by submission of a bid agrees with the City that the amount of the said deposit represents the amount of the damages the City will suffer by reason of any default as aforesaid.

G. <u>APPROXIMATE ESTIMATE OF QUANTITIES</u>

In the Bidder's Proposal there is a statement of quantities based upon the estimate of the Engineer of the quantities of the various classes of work and the nature and extent, as near as practicable, of the work required. The several bids will be computed, tested and canvassed by the total cost of all the items in this approximate estimate at the prices bid.

The quantities are approximate **only**, being given as a basis for the uniform comparison of bids, and the Commissioner does not expressly or by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the quantities and amounts of any or all items of the work at prices bid, as may be deemed necessary by the Engineer.

Bidders are required to submit their estimates upon the following express conditions which shall apply to and become a part of every bid received, to wit:

Bidders must satisfy themselves, by a personal examination of the location of the proposed work and/or by such other means as they may prefer, as to the actual conditions and requirements of the work and the accuracy of the foregoing estimate of the Engineer and shall not at any time after submission of a bid assert or claim that there was any misunderstanding in regard to the nature of the work or the conditions affecting the work.

Attention is called to the uncertainty as to the actual total quantity of materials to be excavated, especially as to the quantities and kinds of material, since that will depend upon the character of the earth and rock which cannot be determined in advance.

An increase or decrease in the quantity for any item shall not be regarded as sufficient ground for an increase or decrease in the prices nor in the time allowed for the completion of the contract, except as provided in the contract.

H. CONSTRUCTION CONDITIONS

Bidders are required to inform themselves fully of the conditions relating to construction and labor under which the work will be or is now being performed and the contractor must employ, so far as practicable, such methods and means in the carrying out of the work as will not cause any interruption or interference with any other contractor(s).

I. TIME FOR COMPLETION

All work included hereunder shall be fully completed within the time stated in the Scope of the Work. This time will be measured in Calendar Days from the date designated by the Commissioner of Public Works in the Notice to the Contractor, ordering the Contract work to be commenced. Failure to complete the work of the Contract within the time specified will be just cause for the retention from any monies due or to become due under the contract, of any damage suffered by the City by reason of such failure to complete the contract. Any delay in the completion of the Contract, caused solely by the City, will be added to the above time allowance for completion. In case of undue or extreme delay caused by the City, funds retained by the City from previous progress payments in accordance with the Contract provisions may be released to the Contractor, if, in the opinion of the Contract, the withholding of such retained funds works a hardship on the Contractor. Such release will not, however, relieve the Contractor of any and all obligations under the Contract, which shall remain in full force and effect.

J. <u>REJECTION OF BIDS</u>

The Commissioner reserves the right to select the bid or proposal, the acceptance of which will, in his/her judgment, best secure the efficient performance of the work, or to reject any or all bids. Proposals which are incomplete, conditional, or obscure or which contain additions not called for, erasures, alterations, ambiguities, or irregularities of any kind, may be rejected as informal. Permission will not be given for the withdrawal of any bid or estimate, and the right is expressly reserved by the Commissioner of Public Works to reject all estimates should he/she deem it to the public interests to do so. No estimates will be accepted from or the Contract awarded to any person who is in arrears to the City upon debt or contract, or who is in default, as principal or surety or otherwise, upon any Obligation to the City.

II. CONDITIONS TO BE MET BY SUCCESSFUL BIDDER

A. COMPLIANCE WITH CONTRACT PROVISIONS

The successful bidder will be required to comply with the provisions set forth in the Contract in regard to preference in employment and discrimination in employment, hours of work, wage rates and payment of wages, and with all other provisions of the Contract, which Contract is attached hereto, and made a part hereof.

B. <u>COMPLIANCE WITH LABOR AND OTHER LAWS</u>

The successful bidder will be required to agree that bidder will comply with all the applicable provisions of the Labor Law, the Public Health Law, the Lien Law, the Workmen's Compensation Law, the State Unemployment Insurance Law, the Federal Social Security Law, any and all rules and regulations promulgated by the Department of Labor and/or the Industrial Commissioner of the State of New York, any applicable Federal Law, rule or regulation, the Charter of the City of New Rochelle, any Local Laws, ordinances, resolutions, or regulations of the City of New Rochelle, and all amendments and additions thereto.

By submission of the bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that the bidder has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all of its employees. Such policy shall, at a minimum, meet the requirements of section 201-g of the labor law.

C. INSURANCE REQUIRED

The attention of bidders is called to the fact that the Contractor will be required to take out, and continue in effect during the life of the Contract, insurance in accordance with the provisions set forth in the Contract, and in the quantities specified therein. Proof of insurance documents must be provided to the City of New Rochelle as stated in the Contract.

D. BOND REQUIRED

For the performance of the Contract a bond will be required which shall be in the penalty of one hundred percent (100%) of the Contract price, shall be in the annexed approved form, shall be signed by the party to whom the work is awarded and by a solvent fidelity or surety company authorized by the laws of this State to transact such business and must meet with the approval of the Corporation Counsel of the City of New Rochelle, as to form and correctness. Said Surety Company must be approved by the Corporation Counsel.

The bidder whose bid shall be accepted will be required to attend at the office of the Commissioner of Public Works in person or, if a corporation, shall be represented by a duly authorized representative, with the surety offered by him/her and shall be prepared to execute the Contract and bond within ten (10) business days after a written notice from the Commissioner of Public Works that the Contract has been awarded to him/her. In case of failure or neglect to do so may, at the option of the Commissioner, be deemed to have abandoned the Contract as in default to the City under the provisions above set forth.

If at any time after the execution and approval of this Contract and the bonds required by the Contract documents, the City of New Rochelle shall deem any of these sureties upon such bonds to be unsatisfactory, or if, for any reason, such bonds shall cease to be adequate security for the City of New Rochelle, the Contractor shall, within ten (10) business days after Notice of the City of New Rochelle by the Commissioner of Public Works do so, furnish new or additional bonds, in form, sum and signed by such sureties as shall be satisfactory to the City of New Rochelle. No further payment shall be deemed due nor shall any further payment be made to the Contractor unless and until such new or additional bonds shall be furnished and approved. Premiums on such bonds will be paid for by the Contractor.

E. <u>BIDDER TO BE COMPETENT</u>

Before the award of the Contract, the bidder to whom it is proposed to award same will be required to show to the satisfaction of the Department of Finance Purchasing Office that the bidder has the necessary facilities, experience, ability, and financial resources to perform the work in a satisfactory manner and within the time stipulated, and that has had experience in construction works of the same or of a similar nature.

F. AWARD OF CONTRACT

The City will award the Contract based upon the base bid price and consideration of ADD Alternate Bids. The City will award alternate bids in the numerical order presented. The award of contract will be based upon the base bid amount plus the alternate or alternates selected by the City.

G. NOTIFICATIONTOCONTRACTOR

EQUALEMPLOYMENTOPPORTUNITY

The Contractor is herein made aware that the City of New Rochelle, New York, requires adherence to the Westchester County Affirmative Action and Equal Opportunity agreements and requirements applicable to public works contracts. It shall be the Contractor's responsibility to become familiar with said requirements, and to comply with any and all regulations stated therein and in the Westchester County Plan (defined below).

ADDITIONAL PROVISIONS

The contractor shall also maintain compliance with the following:

- 1) <u>COPELAND "ANTI-KICKBACK" ACT</u> (18 U.S.C. 874) as supplemented in Department of labor Regulation (29 CFR Part 3).
- 2) <u>DAVIS-BACON ACT</u> (40 U.S.C. 276a to a-7) as supplemented in Department of Labor Regulation (29-CFR Part 5).
- <u>CONTRACT WORK HOURS AND SAFETY STANDARDS ACT</u> (40 U.S.C. 327-330) SECTIONS 103 & 107 AS SUPPLIMENTED BY Department of Labor Regulation (29 CFR Part 5).
- 4) <u>PREVAILING WAGE RATES</u> As supplied by New York State Department of Labor.

<u>NOTE</u>: IF THE ABOVE DOCUMENTS ARE NOT INCLUDED IN THIS SECTION, COPIES OF THE ABOVE-MENTIONED REGULATIONS ARE ON FILE IN THE ENGINEERING OFFICE, CITY HALL, 515 NORTH AVENUE, NEW ROCHELLE, NEW YORK, FOR YOUR INFORMATION. SAID REGULATIONS SHALL BE INCLUDED IN THE FINAL CONTRACT PACKAGE.

H. <u>ECONOMIC OPPORTUNITY AND NON-DISCRIMINATION POLICY FOR THE CITY OF</u> <u>NEW ROCHELLE</u>

The City of New Rochelle finds and determines that contracts awarded by the City, and economic development projects supported by the City or benefiting from zoning enhancements, provide a crucial opportunity for advancing City policy objectives, including targeting employment and business opportunities. In addition, prohibiting barriers to employment and invidious discrimination in City-supported contracts and projects is an important goal of the City in its expenditures and economic development activities.

Pursuant to Chapter 31 of the New Rochelle City Code, the successful bidder will be obligated to adhere to the City established Economic Opportunity and Nondiscrimination Policy applicable to City-awarded contracts and specified economic development projects, as follows:

- 1. Employment and training opportunities
- a. <u>Construction Employment</u>. Each Construction Contractor shall take the following steps in the following order, in an effort to employ Targeted Workers to perform at least 20% of the work hours on the project or contract.
 - (i) Step One: Utilize the Construction Contractor's discretion to assign to perform project work to any current employees who are Targeted Workers;
 - Step Two: If the Construction Contractor utilizes a union hiring hall to retain workers, utilize name call, rehire, similar procedures in the relevant collective bargaining agreement, and an explicit request, to retain Targeted Workers;
 - (iii) Step Three: If the above steps have not enabled employment of Targeted Workers to perform at least 20% of the work hours on the project or contract, request referral of Targeted Workers from the City's First Source Center; and
 - (iv) Step Four: Reasonably consider workers that have been referred by the First Source Center within five business days of request therefor.

If the Construction Contractor has not filled available jobs with Targeted Workers through the steps set forth above, it may recruit and hire workers through any mechanism, and shall continue to reasonably consider workers that have been referred by the First Source Center for up to 15 days after initial notification. Employers that need to hire on an emergency basis in order to maintain operations may hire from any source immediately, but still shall notify the First Source Center about available positions, and reasonably consider any candidates referred before hiring is complete. New apprentice employment requirements for Prime Contractors. For each 20,000 construction work hours performed by a Prime Contractor and its subcontractors of any tier, such Prime Contractor and/its subcontractors of any tier shall act as a Subscribing Employer for at least one individual newly enrolled as an apprentice in an apprenticeship program registered with the New York State Department of Labor, and employ such new apprentice for an aggregate total of at least 1,000 hours of work on the prime contract or subcontracts.

- b. <u>Non-construction employment</u>. Each Employer shall undertake the following steps in the following order, in an effort to hire Targeted Workers to fill at least 25% of available jobs on the project or contract.
- (i) Step One: Notification of job opportunities. When an Employer has an opening for an on-site job available, the Employer shall notify the First Source Center of the job opening and provide a description of job responsibilities and qualifications. Job qualifications shall be limited to qualifications directly related to performance of job duties.
- (ii) Step Two: Consideration of Targeted Workers. The Employer shall then use standard hiring practices, including interviews, to consider all Targeted Workers referred by the First Source Center and meeting the qualifications described in the referral request during a five-day period after initial notification, or until all open on-site jobs are filled, whichever is sooner. The Employer shall make good-faith efforts to fill all available on-site jobs with Targeted Workers. If at the conclusion of the five-day period the Employer has been unable to fill all openings for on-site jobs with Targeted Workers, the Employer may use other recruitment methods. Employers that need to hire on an emergency basis in order to maintain operations may hire from any source immediately, but still shall notify the First Source Center about available positions, and reasonably consider any candidates referred before hiring is complete.
- c. <u>Hiring discretion</u>. Nothing in this policy requires that any Construction Contractor or Employer hire any particular individual. Each Construction Contractor shall have the sole discretion to judge the qualification of and to hire or decline to hire any individual referred by the First Source Center or any other source. In order to improve the first source system and the City's job training pipeline, each Employer that declines to hire a first source referral for an available position shall provide to the First Source Center a written account of reasons for rejecting such candidates.
- 2. BusinessOpportunities
- a. <u>ConstructionContracts</u>
 - (i) Prime contracting. The City and each Developer shall have a goal of awarding at least 10% of prime contracts for construction work, including trucking services, to businesses based in the City. The City and the Developer shall make affirmative efforts to provide outreach to M/WBEs, including notification of bidding opportunities to a list of sources provided by the City, responsive communications with M/WBEs that express interest in bidding, and full and fair considerations of bids submitted by M/WBEs.

- (ii) Subcontracting. Each Prime Contractor shall have a goal of awarding at least 20% of the dollar value of subcontracts for construction work, including trucking services, to businesses based in the City. Each Prime Contractor shall make affirmative efforts to provide outreach to M/WBEs, including notification of bidding opportunities to a list of sources provided by the City, responsive communications with M/WBEs that express interest in bidding, and full and fair considerations of bids submitted by M/WBEs.
- (iii) Contracts and subcontracts for construction shall include the requirement to submit quarterly utilization reports in a form provided by the City indicating the number and percentage of Targeted Workers and M/WBEs employed at a job site, with certified payroll sheets listing employees' biweekly payroll.

b. Service contracts

- (i) The City, each Developer, Employers, and management entities operating portions of Public-Private Projects shall have a goal of awarding at least 20% of the dollar value of service contracts (not including construction contracts) to be performed on-site at the project to businesses based in the City. Entities awarding service contracts shall make affirmative efforts to provide outreach to M/WBEs, including notification of bidding opportunities to a list of sources provided by the City, responsive communications with M/WBEs that express interest in bidding, and full and fair considerations of bids submitted by M/WBEs.
- (ii) Service contracts shall include the requirement to submit quarterly utilization reports in a form provided by the City indicating the number and percentage of Targeted Workers and M/WBEs employed on Public-Private Projects, with certified payroll sheets listing employees' biweekly payroll.

3. Implementation

- a. This Policy applies to and shall be incorporated into all City Contracts and into contracts between the City and Developers related to Public-Private Projects. When parties referenced in this Policy engage subcontractors, tenants, and other parties to operate in Public-Private Projects or as participants in fulfillment of City Contracts, this Policy shall be incorporated by reference into relevant contracts as a material term, enforceable by the City as a third-party beneficiary.
- b. All parties with responsibilities under this Policy agree to provide information requested by the City as necessary to determine compliance with this Policy. Developers, Prime Contractors, and Employers shall provide annual public reports regarding compliance with this Policy.
- c. Developers, Construction Contractors, and Employers are subject to liquidated damages in cases of noncompliance with this Policy. Liquidated damages shall be assessed by the City only in cases of sustained, material noncompliance, and after notice and opportunity to correct. Developers, Construction Contractors, and Employers also agree to remedies of specific performance and other contractual or equitable remedies related to compliance with this Policy.
- d. If any provision of this Policy or any application thereof to any person or circumstances is held invalid by final judgment of any court of competent jurisdiction, such invalidity shall not affect other provisions or application of this Policy, which can be given effect without the invalid provision or application, and to this end the provisions of this Policy are

declared to be severable.

4. Nondiscrimination Policy

Each Construction Contractor, Employer, and Developer shall refrain from discrimination or harassment based on race, ethnicity, national origin, gender, gender identity, sexual orientation, age, religion, disability, veteran status, or any other basis prohibited by law, in all activities in furtherance of or on site of work performed in relation to a City Contract or a Public-Private Project. Such entities shall take active steps to ensure that all activities related to City Contracts and Public-Private Projects are conducted without discrimination or harassment on these bases by all employees and representatives.

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CITY OF NEW ROCHELLE

MONTHLY EMPLOYMENT UTILIZATION REPORT

USER INSTRUCTIONS:

1. Please read reverse side of this form for detailed instructions

2. Complete all applicable information, leave shaded boxes blank.

3. If more than 1 page is use TOTAL TO DATE" on la	d, complete all information for "TC ist page only. nis form should reflect an aggregate	TAL THIS MONTH			form sub nent appli					BCONTRACTORS II REPORT (IF ANY)	NCLUDED	FOR R.E. OFFICE USE REVIEWED BY: DATE RECEIVED: Reporting Period	ONLY / /		AGE of ctual Start Date
Project Title:		Prime Contracto	r's Name:						2			From:			
									3			To:			
Contract #:		Address:						_	4			% of		C	ompletion Date
Location:		N						-	5			Completion			
Location:		Phone: Prepared By:				D		_	6						
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# 1	WORK HOURS OF EMPLOYEES #1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11 #12 Table Number														
Construction Trade	Classification	Total All Employee Hours	Sum of All Employee Hours	Bla	ack	Hisp	banic	Asi	an	Native American	Total Minori Hours	ty % Minority Hours	% Female Hours	Total Number of Employees	Total Number of Minority
		M F	(Add 3M + 3F)	М	F	M	F	М	F	M F	(Add 5 thru	8) (#9 DIV #4)	(#3F DIV #4)	M F	Employees M F
	JOURNEY WORKER														
	APPRENTICE														
	SUBTOTAL														
	JOURNEY WORKER														
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	TOTAL JOURNEY WORKER														
TOTAL	TOTAL APPRENTICE														
THIS MONTH	TOTAL SKILLED TRADES														
	LABORERS														
GRAND TOTAL FROM	SKILLED TRADES													For R.E. Of Reviewed By:	fice Use Only
LAST MONTH	LABORERS													Date:	
			1											-	
GRAND TOTAL	SKILLED TRADES													_	
TO DATE	LABORERS														

COMPANY OFFICIAL'S SIGNATURE AND TITLE: _ *Superintendents' hours should not be included in this form. DATE SIGNED:

NOTE: The MEUR must be submitted within 5 business days of month end.

FILING MONTHLY EMPLOYMENT UTILIZATION REPORT

INSTRUCTIONS

The Monthly Employment Utilization Report (MEUR) is completed by each subject contractor and signed by an Official of the company. The report is to be submitted by the 5th day of each month during the term of the contract, and it shall include the total work hours for each employee classification in each trade for the monthly reporting period. The prime contractor is responsible for submitting a MEUR, which aggregates its own workforce and its subcontractor's workforce. A MEUR is required each month until the contract is complete.

DEFINITIONS: Minority

BLACK persons having origins in any of the Black African racial groups not of Hispanic origin;

HISPANIC persons of Puerto Rican, Mexican, Dominican, Cuban, Central, or South American culture or origin, regardless of race; (Please note: Hispanic does not include Portuguese, a person of Portuguese, Brazilian or other Portuguese culture or origin.

ASIAN and PACIFIC islander persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands; and

AMERICAN INDIAN or ALASKAN native persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification.

Reporting Period

From the First to the End of each Month. Example: 1/1/1994 until 1/31/1994

Percentage of Job Completed

Percent of project work completed by the contractor or subcontractors as of the end of the reporting period.

Work Hours of Employment

The number of hours worked by employees in the designated classification for each construction trade; the totals for the current month; and the totals to date.

COLUMN ENTRIES:

y	1.	Construction Trade	List only those construction crafts utilized for this contract.
	2.	Classification	The status of the worker in the trade (Journey Worker, Apprentice, Laborer,) Please note: Only working foreman's hours should be included. Superintendents' hours should not be included.
	3.	Total All Employees	The total number of male hours and the total number of female hours worked by employees in each classification.
	4.	Sum Hours	Add columns #3 Male hours and #3 Female hours
n,	5.–	8. Specified Minority	The total number of male hours and the total number of female hours worked by each specified group of minority employees (Black, Hispanic, Asian, Native American) in each classification.
	9.	Total Minority Hours	The total number of male hours and the total number of female hours worked by minority employees in each classification (add columns #5 thru #8).
	10.	% Minority Hours	The percentage of total minority work-hours of all work-hours in each classification (column #9 divided by column #4).
	11.	% Female Hours	The percentage of female work-hours of all work hour-hours in each classification (column #3 Female divided by column #4)
	12.	Total # Employees	Total number of male and female employees on the payroll working in each classification during the reporting period.
	13.	Total # Minorities	Total number of male and female minority employees on the payroll working in each classification during the reporting period.

I. <u>NEW YORK STATE AFFIRMATIVE ACTION REQUIREMENTS</u>

(BID CONDITIONS - EQUAL EMPLOYMENT OPPORTUNITY)

(For all State and State-Assisted Construction Contracts to be awarded in this County of the State of New York, with the exception of those contracts which involve Federal assistance and for which Federal Bid Conditions are required).

PART I

The provisions of this Part I apply to Bidders, Contractors and Subcontractors with respect to those construction trades for which they are parties to collective bargaining agreements with a labor organization or organizations and who together with such labor organizations have agreed to the Westchester County, New York area Equal Employment Opportunity Agreement (but only as to those trades as to which there are commitments by labor organizations to specific goals of minority manpower utilization) between the Building Trades Employers Association of said County, the Builder's Institute of Westchester & Putman Counties, various labor organizations, General and Specialty Contractors and their associations and the minority coalition, together with all implementing agreements that have been and may hereafter be developed pursuant thereto, all of which documents are incorporated herein by reference and are hereinafter cumulatively referred to as the "Westchester County Plan."

Any Bidder, Contractor or Subcontractor using one or more trades of construction employees must either comply with Part I or Part II or these Bid Conditions as to each such trade. Thus, a Bidder, Contractor or Subcontractor may be in compliance with these conditions by its inclusion, with its union, in the Westchester County Plan as to trade "A", provided there is set forth in the Westchester County Plan a specific commitment by that union to a goal of minority manpower utilization for such trade "A", thereby meeting the provisions of this Part I, and by its commitment to Part II in regard to trade "B" in the instance in which it is not included in the Westchester County Plan, and, therefore, cannot meet the provisions of this Part I.

To be eligible for award of a contract under Part I of this invitation, a Bidder or Subcontractor must execute the certification required by Part III hereof.

PART II

A. COVERAGE

The provisions of this Part II shall be applicable to those Bidders, Contractors, and Subcontractors, who, in regard to those construction trades to be utilized on the Project to which these bid conditions pertain:

- 1. Are not or hereafter cease to be signatories to the Westchester County Plan referred to in Part I hereof;
- 2. Are signatories to the Westchester County Plan, but are not parties to collective bargaining agreements;
- 3. Are signatories to the Westchester County Plan, but are parties to collective bargaining agreements with labor organizations who are not or hereafter cease to be signatories to

the Westchester County Plan.

- 4. Are signatories to the Westchester County Plan but as to which no specific commitment to goals of minority manpower utilization by labor organization have been executed pursuant to the Westchester County Plan; or,
- 5. Are no longer participating in an affirmative action plan acceptable to the Industrial Commissioner, including the Westchester County Plan.

B. <u>REQUIREMENT: AN AFFIRMATIVE ACTION PLAN:</u>

The bidders, contractors and subcontractors described in paragraphs 1 through 5 aforementioned will not be eligible for award of a contract under this Invitation for Bids, unless it certifies as prescribed in paragraph 2b of the certification specified in Part III hereof that it adopts the minimum goals and timetables of minority manpower utilization (1) and specific affirmative action steps set forth in Section B.1 and 2 of this Part II directed at increasing minority manpower utilization by means of applying good faith efforts to carrying out such steps; or is deemed to have adopted such a program pursuant to Section B.3 of this Part II.

1. Goals and Timetables:

The goals of minority manpower utilization required of the bidder and subcontractors are applicable to each trade not otherwise bound by the provisions of Part I hereof which will be used on the project in Westchester County, New York (hereinafter referred to as the "Area") shall be 11.0%-13.0%.

The percentage goals of minority manpower utilization aforementioned are expressed in terms of man-hours of training and employment as a proportion of the total man-hours to be worked by the Bidder's, Contractor's and Subcontractor's entire work force in that trade on all projects (both state and non-state) in the Area during the performance of its Contract or Subcontract. The man-hours for minority work and training must be substantially uniform throughout the length of the contract, on all projects and for each of the trades. Further, the transfer of minority employees or trainees from employer-to-employer or from project-to-project for the sole purpose of meeting the contractor's or subcontractor's goal shall be a violation of these conditions. In reaching the goals of minority manpower utilization required of bidder, contractors and subcontractors pursuant to this Part II, every effort shall be made to find and employ qualified journeymen. However, where minority journeymen are not available, minority trainees in pre-apprenticeship, a p p r entic e ship, journeyman training or other training programs may be used.

In order that the non-working training hours of trainees may be counted in meeting the goal, such trainees must be employed by the contractor during the training period, the contractor must have made a commitment to employ the trainees at the completion of their training subject to the availability of employment opportunities and the trainees must be trained pursuant to established training programs which must be the equivalent of the training programs now or hereafter provided for in the Westchester County Plan with respect to the nature, extent and duration of training offered.

A contractor or subcontractor shall be deemed to be in compliance with the terms and requirements of this Part II by the employment and training of minorities in the appropriate percentage of his aggregate work force in the Area for each trade for which it is committed to a goal under this Part II.

However, no contractor or subcontractor shall be found to be in non-compliance solely on account of its failure to meet its goals within its timetables, but such Contractor shall be given the opportunity to demonstrate that it has instituted all of the specific affirmative action steps specified in this Part II and has made every good faith effort to make these steps work toward the attainment of its goals within its timetables, all to the purpose of expanding minority manpower utilization on all of its projects in the Area.

In all cases, the compliance of a bidder, contractor or subcontractor will be determined in accordance with its respective Obligations under the terms of these Bid Conditions. Therefore, contractors or subcontractors who are governed by the provisions of this Part II shall be subject to the requirements of that Part regardless of the obligations of its prime contractor or low tier subcontractors.

- 2. All bidders and all contractors and subcontractors performing or to perform work on projects subject to these Bid Conditions hereby agree to inform their subcontractors of their respective obligations under the terms and requirements of these Bid Conditions, including the provisions relating to goals of minority employment and training.
- 3. Specific Affirmative Action Steps: Bidders, contractors and subcontractors subject to this Part II must engage in affirmative action directed at increasing minority manpower utilization, which is at least as extensive and as specific as the following steps:
 - a. The Contractor shall notify community organizations that the Contractor has employment opportunities available and shall maintain records of the organizations' response.
 - b. The Contractor shall maintain a file of the names and addresses of each minority worker referred to him/her and what action was taken with respect to each such referred worker, and if the worker was not sent to the union hiring hall for referral or if such worker was not employed by the contractor, the contractor's file shall document this and the reasons therefore.
 - c. The Contractor shall promptly notify the City when the union or unions with whom the Contractor has a collective bargaining agreement has not referred to the Contractor a minority worker sent by the Contractor or the Contractor has other information that the union referral has impeded Contractor in efforts to meet goal.
 - d. The contractor shall participate in training programs in the area, especially those funded by the Department of Labor.
 - e. The contractor shall disseminate EEO policy within own organization by including it in any policy manual, by publicizing it in company newspapers, annual reports, etc., by conducting staff, employee and union representatives' meetings to explain and discuss the policy, by posting of the policy, and by specific review of the policy with minority employees.
 - f. The contractor shall disseminate his EEO policy externally by informing and discussing it with all recruitment sources, by advertising in news

media, specifically including minority news media, and by notifying and discussing it with all subcontractors and suppliers.

- g. The contractor shall make specific and constant personal (both written and oral) recruitment efforts directed at all minority organizations, schools with minority students, minority recruitment organizations, and minority training organizations, within the contractor's recruitment area.
- h. The contractor shall make specific efforts to encourage present minority employees to recruit their friends and relatives.
- i. The contractor shall validate all worker specifications, selection requirements, test, etc.
- j. The contractor shall make every effort to promote after-school, summer and vacation employment to minority youth.
- k. The contractor shall develop on-the-job training opportunities and participate and assist in any association or employer-group training programs relevant to the contractor's employee needs consistent with its obligations under this Part II.
- I. The contractor shall continually inventory and evaluate all minority personnel for promotion opportunities and encourage minority employees to seek such opportunities.
- m. The contractor shall make sure that seniority practices, job classifications, etc., do not have a discriminatory effect.
- n. The contractor shall make certain that all facilities and company activities are non-segregated.
- o. The contractor shall continually monitor all personnel activities to ensure that EEO policy is being carried out.
- p. The contractor shall solicit bids for subcontracts from available minority subcontractors engaged in the trades covered by these Bid Conditions, including circulation of minority contractor associations.
- 4. Contractors and Subcontractors Deemed to be Bound by Part II: In the event a Contractor or Subcontractor, who is at the time of bidding eligible under Part I of these Bid Conditions, is no longer participating in an affirmative action plan acceptable to the Industrial Commissioner, including the, shall be deemed to be committed to Part II of these Bid Conditions. Further, whenever a contractor or subcontractor is deemed to be committed to Part II of these Bid Conditions shall be considered to be committed to a manpower utilization percentage goal of the minimum range for that trade for the appropriate year.
- 5. Subsequent Signatory to the Westchester County Plan: Any contractor or subcontractor subject to the requirements of this Part II for any trade at the time of the submission of his bid who together with the labor organization with whom it has a collective bargaining agreement subsequently becomes a signatory to the Westchester County Plan, either individually or through an association, may meet its requirements under these Bid Conditions for such trade, if such contractor or subcontractor executes and submits a new certification committing to Part I of these Bid Conditions. No contractor or subcontractor shall be deemed to be subject to the requirements of Part I until such certification is executed and submitted.

6. Non-Discrimination: In no event may a contractor or subcontractor utilize the goals, timetables or affirmative action steps required by this Part II in such a manner as to cause or result in discrimination against any person on account of race, color, religion, sex or national origin.

(NO TEXT HERE)

PART III

A. **BIDDER'S CERTIFICATIONS**

A bidder will not be eligible for award of a contract under this Invitation for Bids unless such bidder has submitted as a part of its bid the following certification, which will be deemed a part of the resulting Contract:

BIDDERS' CERTIFICATION

(Bidder)

1. It intends to use the following listed construction trades in the work under the Contract:

_____certifies that:

_____; and

a. As to those trades set forth in the preceding paragraph one hereof for which it is eligible under Part I of these Bid Conditions for participation in the Westchester County Plan, it will comply with the Westchester County area within the scope of coverage of that Plan, those trades being:

, and/or

b. As to those trades for which it is required by these Bid Conditions to comply with Part I of these Bid Conditions, it adopts the minimum minority manpower utilization goals and the specific affirmative action steps contained in said Part II, for all construction work (both state and non-state) in the Westchester County area subject to these Bid Conditions, those trades being:

_and

2. It will obtain from each of its subcontractors and submit to the contracting or administering agency prior to the award of any subcontract under this contract the subcontractor certification required by these Bid Conditions.

(Signature of authorized representative of bidder)

B. <u>SUBCONTRACTORS' CERTIFICATIONS</u>

Prior to the award of any subcontract under this Invitation for bids, regardless of tier, the prospective subcontractor must execute and submit to the Prime Contractor the following certification, which will be deemed a part of the resulting subcontract:

SUBCONTRACTORS'CERTIFICATION

certifies that:

(Subcontractor)

- 1. It intends to use the following listed construction trades in the work under the subcontract
- a. As to those trades set forth in the preceding paragraph one hereof for which it is eligible under Part I of these Bid Conditions for participation in the Westchester County Plan, it will comply with the Westchester County Plan on all construction work (both state and non-state) in the Westchester County area subject to these Bid Condition, those trades being: ______

_; and

b. As to those trades for which it is required by these Bid Conditions to comply with Part II of these Bid Conditions, it adopts the minimum minority manpower utilization goals and the specific affirmative action steps contained in said Part II for all construction work (both state and non-state) in the Westchester County area subject to these Bid Conditions, those trades being:

_; and

3. It will obtain from each of its subcontractors prior to the award of any subcontract under this subcontract the subcontractor certification required by these Bid Conditions.

(Signature of authorized representative of bidder)

In order to ensure that the said subcontractors' certification becomes a part of all subcontracts under the prime contract, no subcontract shall be executed until an authorized representative of the City has determined, in writing, that the said certification has been incorporated in such subcontract, regardless of tier. Any subcontract executed without such written approval shall be void.

C. MATERIALLY AND RESPONSIVENESS

The certifications required to be made by Bidder pursuant to these Bid Conditions is material, and will govern the Bidder's performance on the project and will be made a part of bid. Failure to submit the certification will render the bid non-responsive.

PART IV - COMPLIANCE AND ENFORCEMENT

Contractors are responsible for informing their Subcontractor (regardless of tier) as to their respective obligations under Parts I and II hereof (as applicable). Bidders, Contractors and Subcontractors hereby agree to refrain from entering into any contract or contract modification with a Contractor debarred from, or who is determined not to be a "Responsible" Bidder for, state contracts and state-assisted construction contracts. The Bidder, Contractor or Subcontractor shall carry out such sanctions and penalties for violation of the equal opportunity clause including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered by the administering agency or the contracting agency. Any Bidder, Contractor or Subcontractor who shall fail to carry out such sanctions and penalties shall be deemed to be in non-compliance with these Bid Conditions.

Nothing herein is intended to relive any Contractor or Subcontractor during the term of its contract on this project from compliance with the Equal Opportunity Clause of its contract, with respect to matters not covered in the Westchester County Plan or in Part II of these Bid Conditions.

Violation of any substantial requirement in the Westchester County Plan by a Contractor or Subcontractor covered by Part I of these Bid Conditions including the failure of such Contractor or Subcontractor to make a good faith effort to meet its fair share of the trade's goals of minority manpower utilization, or of the requirements of Part II hereof by a Contractor or Subcontractor who is covered by Part II shall be deemed to be non-compliance by such Contractor or Subcontractor with the Equal Opportunity Clause of the contract, and shall be grounds for imposition of appropriate sanctions and penalties.

Each agency shall review its Contractors' and Subcontractors' employment practices during the performance of the contract. If the agency determines that the Westchester County Plan no longer represents effective affirmative action, it shall so notify the New York State Department of Labor (NYSDOL) which shall be solely responsible for any final determination of that question and the consequences thereof.

In regard to Part II of these conditions if the Contractor or Subcontractor meets its goals or if the Contractor or Subcontractor can demonstrate that it has made every good faith effort to meet those goals, the Contractor or Subcontractor shall be presumed to be in compliance with its obligators under these Bid Conditions and no formal sanctions or proceedings leading toward sanctions shall be instituted unless the agency otherwise determines that the Contractor or Subcontractor is not providing equal employment opportunities. In judging whether a Contractor or Subcontractor has met its goals; the agency will consider each Contractor's or Subcontractor's minority manpower utilization of its Subcontractors. Where the agency finds that the Contractor or Subcontractor has failed to comply with its obligations under these Bid Conditions, the agency shall take such action and impose such sanctions as may be appropriate. When the agency proceeds with such formal action it has the burden of proving that the Contractor has not met the requirements of these Bid Conditions, but the Contractor's failure to meet his goals shall shift to him the requirement to come forward with evidence to show that he has met the "good faith" requirements of these Bid Conditions by instituting at least the Specific Affirmative Action steps listed above and by making every good faith effort to make those steps work toward the attainment of its goals within its timetables.

Contractors and Subcontractors must keep such records and file such reports relating to the provisions of these Bid Conditions as shall be required by the contracting or administering agency or the Department of Labor.

For the information of Bidders, a copy of the Westchester County Plan may be obtained from the contracting officer.

(NO TEXT HERE)

SECTION B BID PROPOSAL

Fed. ID# (or S	S#)
Proposal of	
(hereinafter-called "Bidder")	
a Corporation/ a Partnership/ an Individual doing business as _	
, to the	(hereinafter called "Owner")
The Bidder, in compliance with your Invitation for Bids for the co	ponstruction of
	having
examined the Bid Documents and the site of the proposed world	k, and being familiar with all of the

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

Bidder hereby agrees to commence work under this contract on or before a date to be specified in written "Notice to Proceed" of the Owner and to fully complete the project within consecutive calendar days thereafter as stipulated in the Bid Documents. Bidder further agrees to pay as liquidated damages, the sum set forth in Schedule A for each consecutive calendar day there after that the work is not completed as hereinafter provided in the General and Special Conditions of the Contract Documents. Bidder acknowledges receipt of the following addendum (LIST ALL):

ADDENDUM	DATE	SIGNATURE OF PERSON SIGNING PROPOSAL
1 2.		
3.		
4 5		
TOTAL BID PRICE: Bidder agrees	to perform all of the	

described in the Bid Documents for the sum of ______ (amount shall

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

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 45 calendar days after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder will execute a formal contract with the Owner and deliver the required Insurance Coverage and Surety Bonds within ten (10) business days thereafter.

The Bid Security attached in the sum of _____

______\$______is to become property of the Owner in the event the required Bonds and Insurance are not provided and the contract is not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

Respectfully Submitted:

BY: _____

(Signature)

work

(Title)

(SEAL: if Bid is by a Corporation)

CONTRACTOR'S QUALIFICATION STATEMENT

The signatory of this questionnaire certifies under oath the truth and correctness of all statements and of all answers to interrogatories hereinafter made.

SUBMITTED TO: Commissioner of Public Works City of New Rochelle

SUBMITT	ED BY:	A Corporat	tion; A Co-Partnership; An Individual
Т	elephone:		
			Background
<u>Title</u>	Name	Address	Profession of Trade

Persons of firms submitting bids must be engaged in the liens of work required in these specifications or shall be able to refer to work of similar character performed by them. Proposers must present satisfactory evidence of experience, ability and financial standing, and also a statement as to their plant and machinery.

- 1. How many years has your organization been in business as a general contractor under its present name?
- 2. We normally perform _____% of the work without own forces. List trades below: _____
- 3. Have you ever failed to complete any work awarded to you? _____If so, note where and why?
- 4. List the major construction projects your organization has under way on this date.

5. DESIGNATION OF ASPHALTIC CONCRETE MIXING PLANT

Whenever asphaltic concrete paving is included in the scope of the contract, this form shall be completed in full and made a binding part of the Bidder's Proposal. In the event that the plant designated is not owned by the Contractor, before the award is made he shall be required to furnish a statement from the Plant Owner that the asphaltic concrete material required under the Contract will be furnished in accordance with the specifications, and at a rate sufficient to progress the work properly to the satisfaction of the Commissioner of Public Works.

All plant asphaltic concrete required under this contract will be manufacture at the plant of ______ located at ______ except that, in the event of an emergency, to be determined by the Commissioner of Public Works, the same may be manufactured elsewhere.

Ву: _____

Title: _____

6. List five (5) major projects your organization has completed in the past five (5) years:

Project	Owner	Architect	Contract Amount	Completion Date

7. List the construction experience of the principal individuals of your organization (particularly the Anticipated Project Supervisors)

Individual's Name	Present Position or Office	Years of Experience	Types of work for which responsible	In What Capacity

- 8. Itemized list of Bidder's major plant and equipment:
- 9. Bank References _____
- 10. Trade Association Memberships _____
- 11. Attach State of Financial Conditions, including contractor's latest regular dated financial statement or balance sheet.

Date of current statement or balance sheet:						
Name of Firm preparing statement:						
Dated at	this	day of	20			
Name of Organization:						
		Ву:				
		Title:				

STATE OF)	
SS: COUNTY OF)	
As	being duly sworn deposes and
says that he/she is the	of
	Contractor and that

answers to the foregoing questions and all statements therein contained are true and correct.

SWORN TO BEFORE ME THIS _____ DAY OF _____

NOTARY PUBLIC

My Commission Expires:

CERTIFICATE OF CONTRACTOR'S QUALIFICATION STATEMENT

CURRENT

I certify that (our) (my) Qualification Statement dated
as on file with the Department of Public Works, City of New Rochelle, New York, is current and
that it reflects (our) (my) organization, operations, and financial status as of this
day of:
ith the following exceptions
TATE OF) SS: OUNTY OF)
Asbeing duly sworn
deposes and says that he/she is theof
Contractor and
nat answers to the foregoing questions and all statements therein contained are true and prrect.
SWORN TO BEFORE ME THIS DAY OF

NOTARY PUBLIC

My Commission Expires:

STATEMENT OF NON-COLLUSION

(To Be Completed by Each Bidder)

In accordance with Section 103-d General Municipal Law, effective September 1, 1966, every bid or proposal hereafter made to a political subdivision of the State or any public department, agency, or official thereof or to a fire district or any agency or official thereof for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed to by the Bidder and affirmed by such Bidder as true under the penalties of perjury; non-collusive bidding certification.

- a. By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:
 - 1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or any competitor.
 - 2. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to opening, directly or indirectly, to any other Bidder or to any competitor.
 - 3. No attempt has been made or will be made by the Bidder to induce may other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition.
- b. The person signing this bid or proposal certifies that he has fully informed himself/herself regarding the accuracy of the statements contained in this certification, and under the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the Bidder, as well as the person signing in its behalf.
- c. That attached hereto (if a Corporate Bidder) is a certified copy of resolution authorizing the execution of this certificate by the signator of this bid or proposal in behalf of the Corporate Bidder.

RESOLUTION

Resolved that	be
(Name of	
Corporation)	
authorized to sign and submit the bid or proposal of this corporation for the following	
project	
(Describe Project)	
and to include in such bid or proposal the certificate as to non-collusion required by	
section one-hundred-three-d (103-d) of the General Municipal Law as the act and deed of such Corporation, and for any inaccuracies or mis-statements in such certificate this	
corporate Bidder shall be liable under the penalties of perjury.	
The foregoing is a true and correct copy of the resolution adopted by	
Corporation at a meeting	
of the Board of Commissioners held on theday of	

(SEAL OF THE CORPORATION)

Secretary

NEW YORK STATE AFFIRMATIVE ACTION CERTIFICATION (TO BE COMPLETED BY EACH BIDDER)

Bidder's Certifications: (See Section I, Part III)

A Bidder will not be eligible for award of a contract under this Invitation for Bids unless such Bidder has submitted as a part of its bid the following certification, which will be deemed a part of the resulting contract:

BIDDERS CERTIFICATION

Certifies that:

(Bidder)

1. It intends to use the following listed construction trades in the work under the Contract

2.

a. As to those trades set forth in the preceding paragraph one hereof for which it is eligible under Part I of these Bid Conditions, it will comply with the Westchester County Affirmative Action requirements for Public Works Contracts, area within the scope of coverage of that Plan, those trades being:

_and/or;

and:

and:

- b. As to those trades for which it is required by these Bid Conditions to comply with Part II of these Bid Conditions, it adopts the minimum minority manpower utilization goals and the specific affirmative action steps contained in said Part II, for all construction work (both state and non-state) in the aforementioned area subject to these Bid Conditions, those trades being:
- It will obtain from each of its subcontractors and submit to the contracting or administering agency prior to the award of any subcontractor under this contract the subcontractor certification required by these Bid Conditions.

(Signature of Authorized Representative of Bidder)

SCHEDULE OF VALUES

IN THE CITY OF NEW ROCHELLE, NEW YORK

1923 BUILDING RENOVATIONS (Phase 1) - Flowers Park

Single Prime Contract - Prevailing Wage Rate Project

The Bidder shall provide a breakdown of their lump sum base bid in a schedule of values as follows:

Item	Unit	Quantity	Value
General Requirements			
01 Mobilization	1	LS	
01 General Conditions	1	LS	
01 Bond	1	LS	
01 Submittals	1	LS	
01 Temporary Facilities	1	LS	
01 Temporary Utilities	1	LS	
01 Closeout	1	LS	
General Requirements Subtota			\$
Co	nstruction		
02 Demolition - Materials	1	LS	
02 Demolition - Labor	1	LS	
03 Concrete - Materials	1	LS	
03 Concrete - Labor	1	LS	
04 Masonry - Materials	1	LS	
04 Masonry - Labor	1	LS	
05 Steel - Materials	1	LS	
05 Steel - Labor	1	LS	
06 Wood and Plastics - Materials	1	LS	
06 Wood and Plastics - Labor	1	LS	
07 Thermal & Moisture Protection - Materials	1	LS	
07 Thermal & Moisture Protection - Labor	1	LS	
08 Doors and Windows - Materials	1	LS	
08 Doors and Windows - Labor	1	LS	
09 Finishes - Materials	1	LS	
09 Finishes - Labor	1	LS	

10 Specialties - Materials	1	LS	
10 Specialties - Labor	1	LS	
11 Equipment - Materials	1	LS	
11 Equipment - Labor	1	LS	
12 Furnishings - Materials	1	LS	
12 Furnishings - Labor	1	LS	
13 Special Construction - Materials	1	LS	
13 Special Construction - Labor	1	LS	
22 Plumbing Demolition	1	LS	
22 Plumbing - Materials	1	LS	
22 Plumbing - Labor	1	LS	
23 HVAC Demolition	1	LS	
23 HVAC - Materials	1	LS	
23 HVAC - Labor	1	LS	
26 Electrical Demolition	1	LS	
26 Electrical - Materials	1	LS	
26 Electrical - Labor	1	LS	
28 Electronic Safety – Demolition (if any)	1	LS	
28 Electronic Safety - Materials	1	LS	
28 Electronic Safety - Labor	1	LS	
31 Earthwork - Materials	1	LS	
31 Earthwork - Labor	1	LS	
32 Exterior Improvements - Materials	1	LS	
32 Exterior Improvements - Labor	1	LS	
33 Utilities - Materials	1	LS	
33 Utilities - Labor	1	LS	
Other - Materials	1	LS	
Other - Labor	1	LS	
	Constructio	n Subtotal	\$
Grand Total (General Requirement	nts Plus Con	struction)	\$

TOTAL BASE BID PRICE: Bidder agrees to perform all the work described in the Bid documents

for the sum of \$_____

Written in Words:

ADD ALTERNATE No. 1: Renovation of locker rooms at first floor. Bidder agrees to perform all the

work described in the Bid documents for the sum of \$	
Written in Words:	

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

Bidder understands that the Owner reserves the right to analyze the schedule of bids in the bid review and reject any or all bids to waive any informality in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing of time for receiving bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder will execute a formal contract with the Owner and deliver the required Insurance Coverage and Surety Bonds within ten (10) business days thereafter.

The Bid security attached in the sum of \$_____

is to become the property of the Owner in the event the required Bonds and Insurance are not provided and the contract is not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

Respectfully Submitted

By:_____

(Signature)

(Title)

(Seal: if Bid is by Corporation)

END OF SCHEDULE OF VALUES

TABLE OF CONTENTS

GENERAL AGREEMENT

CHAPTER I	THE CONTRACT AND DEFINITIONS	C-1
ARTICLE 1.	THE CONTRACT	C-1
ARTICLE 2.	DEFINITIONS	C-1
CHAPTER II	THE WORK AND ITS PERFORMANCE	C-3
ARTICLE 3.	CHARACTER OF THE WORK; WORKMANSHIP	05
INTICLE J.	AND MATERIALS	C-3
ARTICLE 4.	MEANS AND METHODS OF CONSTRUCTION	C-4
ARTICLE 5.	CONTRACTORS	C-5
ARTICLE 6.	INSPECTION AND ACCEPTANCE	C-6
ARTICLE 7.	PROTECTION OF WORK AND OF PERSONS AND PROPERTY:	
	NOTICES AND INDEMNIFICATION	C-7
CHAPTER III	TIME PROVISIONS	C-8
ARTICLE 8.	COMMENCEMENT AND PROSECUTION OF WORK;	00
	TIME FOR COMPLETION; LIQUIDATED DAMAGES	C-8
ARTICLE 9.	PROGRESS SCHEDULES	C-11
	COORDINATION WITH OTHER CONTRACTORS	C-11
ARTICLE 11.	NO DAMAGES FOR DELAY	C-13
ARTICLE 12.	SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE	
	OF WORK	C-13
ARTICLE 13.	OCCUPATION OR USE PRIOR TO COMPLETION	C-14
CHAPTER IV	SUBCONTRACTS AND ASSIGNMENTS	C-14
ARTICLE 14.	SUBCONTRACTS	C-14
ARTICLE 15.	ASSIGNMENTS	C-16
[ARTICLES 16	5, 17 AND 18 INTENTIONALLY OMITTED]	C-16
CHAPTER V	CONTRACTOR'S SECURITY AND GUARANTY	C-16
ARTICLE 19.	PERFORMANCE SECURITY	C-16
ARTICLE 20.	RETAINED PERCENTAGES	C-16
ARTICLE 21.	MAINTENANCE AND GUARANTY	C-17
ARTICLE 22.	INSURANCE	C-17
ARTICLE 23.	MONEY RETAINED AGAINST CLAIMS	C-17
CHAPTER VI	CHANGES, EXTRA WORK AND DOCUMENTATION OF CLAIM	C-18
ARTICLE 24.	CONTRACT CHANGES	C-18
ARTICLE 25.	METHODS OF PAYMENT FOR EXTRA WORK	C-18
ARTICLE 26.	DISPUTES	C-21
ARTICLE 27.	RECORD KEEPING FOR EXTRA WORK OR DISPUTED WORK	C-23
ARTICLE 28.	OMITTED WORK	C-24
ARTICLE 29.	NO ESTOPPEL	C-24

ARTICLE 30.	WAIVER, MODIFICATIONS AND APPROPRIATIONS	C-24
CHAPTER VII	POWERS OF THE RESIDENT ENGINEER AND COMMISSIONER	C-25
ARTICLE 31.	THE RESIDENT ENGINEER	C-25
ARTICLE 32.	THE COMMISSIONER	C-25
CHAPTER VII	I CONTRACT PRICE AND PAYMENTS	C-26
ARTICLE 33.	CONTRACT PRICE	C-26
ARTICLE 34.	PARTIAL PAYMENTS	C-26
ARTICLE 35.	CONTRACTOR'S PAYMENT TO SUBCONTRACTORS	C-27
	SUBSTANTIAL COMPLETION PAYMENT	C-27
	FINAL PAYMENT	C-28
	ACCEPTANCE OF FINAL PAYMENT	C-28
ARTICLE 39.		C-29
ARTICLE 40.	WITHHOLDING OF PAYMENTS	C-29
CHAPTER IX	LABOR PROVISIONS	C-29
ARTICLE 41.	EMPLOYEES	C-29
ARTICLE 42.	AFFIRMATIVE ACTION POLICIES; EMPLOYER AND	
	PROFESSIONAL RESPONSIBILITIES	C-30
ARTICLE 43.	LABOR LAW PROVISIONS	C-30
ARTICLE 44.	NON-DISCRIMINATION REQUIREMENTS	C-32
CHAPTER X	CONTRACTOR'S DEFAULT; TERMINATION	C-32
ARTICLE 45.	COMMISSIONER'S RIGHT TO DECLARE CONTRACTOR	
	IN DEFAULT	C-32
ARTICLE 46.	QUITTING THE SITE	C-34
ARTICLE 47.	TERMINATION BY THE CITY	C-34
ARTICLE 48.	COMPLETION OF THE WORK	C-35
ARTICLE 49.	PARTIAL DEFAULT	C-35
ARTICLE 50.	PERFORMANCE OF UNCOMPLETED WORK	C-36
ARTICLE 51.	OTHER REMEDIES	C-36
CHAPTER XI	MISCELLANEOUS PROVISIONS	C-36
ARTICLE 52.	CITY'S RIGHT TO AUDIT AND INSPECT RECORDS	C-36
ARTICLE 53.	BUSINESS ETHICS	C-37
ARTICLE 54.	INVESTIGATION CLAUSE	C-38
ARTICLE 55.	CONTRACTOR'S WARRANTIES	C-40
ARTICLE 56.	CONTRACTOR PERFORMANCE EVALUATION AND CRITERIA	C-40
ARTICLE 57.	CLAIMS AND ACTIONS	C-41
ARTICLE 58.	NO CLAIM AGAINST OFFICIALS, OFFICERS, AGENTS	
	OR EMPLOYEES	C-41
ARTICLE 59.	INFRINGEMENTS	C-42
ARTICLE 60.	NOTICES	C-42
ARTICLE 61.	SEVERABILITY	C-42
ARTICLE 62.	ANTITRUST ASSIGNMENT	C-42
ARTICLE 63.	CHOICE OF LAW	C-42

ARTICLE 64.	TAX EXEMPTION	C-43
ARTICLE 65.	COMPLIANCE WITH LAWS	C-43
ARTICLE 66.	MERGER CLAUSE	C-43
ARTICLE 67.	CONFLICTS; HEADINGS	C-43
		· ·

CITY OF NEW ROCHELLE

GENERAL AGREEMENT

THIS GENERAL AGREEMENT is made and entered into this day of 20, by and between the City of New Rochelle, a municipal corporation of the State of New York, having offices at North Avenue, New Rochelle, New York 10801 515 ("City"), and а having offices at ("Contractor").

WITNESSETH:

The parties, in consideration of the mutual agreements contained herein, agree is follows:

CHAPTER I: THE CONTRACT AND DEFINITIONS

ARTICLE 1. THE CONTRACT

1.1 Except for titles, subtitles, headings, running headlines, tables of contents, and indices (all of which are printed herein merely for convenience) the following, except for such portions thereof as may be specifically excluded, shall be deemed to be part of this Contract:

- 1.1 The Advertisement;
- 1.2 The Information For Bidders;
- The Bid and Bidder's Affidavit: 1.3
- 1.4 This General Agreement;
- Schedule "A" to the General Agreement; 1.5
- 1.6 The Specifications;
- The Contract Drawings; 1.7
- All Addenda issued by the City; 1.8
- All provisions required by Law to be inserted in this Contract, whether actually inserted or 1.9 not:
- 1.10 The Notice of Award;
- 1.11 Performance and Payment Bonds and Insurance Policies and Certificates; and,
- Notice to Proceed. 1.12

ARTICLE 2. DEFINITIONS

2.1 The following words and expressions, or pronouns used in their stead, shall, wherever they appear in this Contract, be construed as follows, unless a different meaning is clear from the context:

- 2.1.1 "Addendum" or "Addenda" shall mean the additional Contract provisions and/or technical clarifications issued in writing by the City prior to the receipt of bids.
- "Allowance" shall mean a sum of money which the City may include in the total amount 2.1.2 of the Contract for such specific contingencies as the City believes may be necessary to complete the Work, and for which the Contractor will be paid on the basis of stipulated

unit prices or a formula set forth in the Contract or negotiated between the parties provided, however, that if the Contractor is not directed in writing to use the Allowance, the Contractor shall have no right to such money and it shall be deducted from the total amount of the Contract.

- 2.1.3 "City" shall mean the City of New Rochelle.
- 2.1.4 "Commissioner" shall mean the head of the Department of Public Works for the City and/or his duly authorized representatives.
- 2.1.5 "Contract" or "Contract Documents" shall mean each of the various parts of the Contract referenced in Article I hereof, as a whole and severally.
- 2.1.6 "Contract Drawings" shall mean only those drawings specifically entitled as such and listed in the Specifications or in any Addendum, or any drawings furnished by the Resident Engineer pertaining or supplemental thereto.
- 2.1.7 "Contractor" shall mean the party defined in the preamble hereto, and its, their, his/her successors, personal representatives, executors, administrators, and assigns, and any person or entity which shall at any time be substituted in the place of the Contractor under this Contract.
- 2.1.8 "Contract Work" shall mean everything required to be furnished and done by the Contractor by any part or parts of the Contract referred to in Article 1, except Extra Work as hereinafter defined; it being understood that in case of any inconsistency between any part or parts of this Contract, the Resident Engineer shall determine what shall prevail.
- 2.1.9 "Days" shall mean calendar days, except where otherwise specified.
- 2.1.10 "Extra Work" shall mean Work, materials and/or equipment needed to complete the Project that was not required by the Contract at the time of its execution.
- 2.1.11 "Final Acceptance" shall mean final written acceptance of all Work by the City after the period of maintenance set forth in Article 21.
- 2.1.12 "Final Approved Punch List" shall mean a list, approved pursuant to Article 12.1.2, specifying those items of Work to be completed by the Contractor after Substantial Completion and dates for the completion of each item of Work.
- 2.1.13 "Law" or "Laws" shall mean the Constitution of the State of New York, the New Rochelle City Charter and Code, a statute of the United States or of the State of New York, a local law of the City of New Rochelle, and any ordinance, rule, regulation or judicial decision having the force of law, or common law.
- 2.1.14 "Materialman" shall mean any person, firm or corporation, other than employees of the Contractor, who or which contracts with the Contactor or any Subcontractor to fabricate or deliver, or who actually fabricates or delivers, plant, materials or equipment to be incorporated in the Work.
- 2.1.15 "Means and Methods of Construction" shall mean the labor, materials, temporary structures, tools, plants, and construction equipment, and the manner and time of their use, necessary to accomplish the result intended by this Contract.
- 2.1.16 "Notice to Proceed" shall mean the written notice issued by the Commissioner specifying the time for commencement of the Work.
- 2.1.17 "Other Contractor(s)" shall mean any contractor, other than the Contractor who executed this Contract or its Subcontractors, who has a contract with the City for work on or adjacent to the Site of the Work.
- 2.1.18 "Project" shall mean the public improvement to which this Contract relates.

- 2.1.19 "Required Quantity" in a unit price Contract shall mean the actual quantity of any item of Work or materials which is required to comply with the Contract.
- 2.1.20 "Resident Engineer" shall mean the City Engineer or his/her designee, including a private architect, engineer or project manager, as the case may be.
- 2.1.21 "Site" shall mean the area upon or in which the Contactor's operations are carried on, and such other adjacent areas as may be designated by the Resident Engineer.
- 2.1.22 "Specifications" shall mean all of the directions, requirements, and standards of performance applying to the Work needed to complete the Project.
- 2.1.23 "Subcontractor" shall mean any person, firm or corporation, other than employees of the Contractor, who contracts with the Contractor or with its Subcontractors to furnish, or actually furnishes labor, or labor and materials, or labor and equipment, or superintendence, supervision and/or management at the Site.
- 2.1.24 "Substantial Completion" shall mean the written determination by the Resident Engineer that the Work required under this Contract is substantially, but not entirely, and approved pursuant to Article 12.
- 2.1.25 "Work" shall mean everything required to be furnished and done by the Contractor to complete the Project in accordance with the Contract Documents, including without limitation, labor, material, superintendence, management, administration, equipment, and incidentals, and obtaining any and all permits, certifications, approvals and licenses as may be necessary and required to complete the Work, and shall include both Contract Work and Extra Work.

CHAPTER II: THE WORK AND ITS PERFORMANCE

ARTICLE 3. CHARACTER OF THE WORK; WORKMANSHIP AND MATERIALS

3.1 Character of Work. Unless otherwise expressly provided in the Contract Drawings, Specifications, and Addenda, the Work shall be performed in accordance with the best modern practices, utilizing, unless otherwise specified in writing, new and unused materials of standard first grade quality and workmanship and design of the highest quality, to the satisfaction of the City.

3.2 Workmanship. The Contractor shall, in a good workmanlike manner, perform all of the Work required by the Contract within the time specified in the Contract to the satisfaction of the City. The Contractor shall provide, erect, maintain and remove such construction, plant, and temporary work as may be required. The Contractor shall be responsible for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for damage which may result from failure or improper construction, maintenance or operation of said plant, appliances and methods.

3.3 <u>Contractor's Title to Materials</u>. No materials or supplies for the Work shall be purchased by the Contractor or any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the seller. The Contractor warrants that it has full, good and clear title to all materials and supplies used by the Contractor in the Work, or resold to the City pursuant to the Contract, free from all liens, claims or encumbrances. All materials and equipment which become the property of the City shall be new unless specified otherwise.

3.4 <u>"Of Equal" Clause</u>. Whenever a material, article or equipment is identified on the plans or in the Specifications by reference to a manufacturer's or vendor's name, trade name, catalogue number, or make, said identification is intended to establish a standard. Any materials, articles or equipment of other manufacturers and vendors which perform the same duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Resident Engineer, the material, article or equipment so proposed is of equal quality, substance and function and the Contractor shall not provide, or install any such proposed material, article or equipment without the prior written approval of the City.

3.4.1 Where the Resident Engineer approves a product proposed by the Contractor and the proposed product requires a revision or redesign of any part of the Work, all such revisions and redesigns, and all new drawings and details required shall be provided by the Contractor and shall be approved by the Resident Engineer. Where the Resident Engineer approves a product proposed by the Contractor and the proposed product results in additional work or added costs, the Contractor proposing the product is solely responsible for such costs and added work.

3.5 Quality, Quantity and Labeling. The Contractor shall furnish materials and equipment of the quality and quantity specified in the Contract. When materials are specified to conform to any standard, the materials delivered to the Site shall bear manufacture's label stating that the materials meet such standards. These requirements shall not restrict or affect the City's right to test materials as provided in the Contract.

- 3.6 Removal and Replacement of Concrete for Deficient Strength
 - 3.6.1 The Contractor recognizes that the concrete mix specified was selected to yield concrete of desired strength and durability and the Contractor agrees that should he fail to supply concrete of the specified strength in the construction, the Contractor shall remove and replace the deficient concrete at the Contractor's sole expense. The strength of the concrete shall be determined by test cylinders made and tested in accordance with the Specifications to be paid for by the Contractor.
 - 3.6.2 Before the Contractor begins to manufacture concrete, he shall secure the Resident's Engineer's approval of the formula he proposes to use, and he shall certify such formula to the Resident Engineer as yielding concrete of the desired strength, density and workability, but in no case shall the cement be less, or the water/cement ratio more, than that specified. The Contractor shall submit for this purpose a statement in writing of the sources of all ingredient materials, the type and brand of the cement, and the number of pounds of each of the materials in a saturated surface dry condition, making up one (1) cubic yard of concrete. The range of water/cement ratios within which the concrete will be manufactured and the method of mixing to be employed shall also be stated. The formula as finally approved shall not be changed without the written consent of the Resident Engineer.

ARTICLE 4. MEANS AND METHODS OF CONSTRUCTION

4.1 Unless otherwise expressly provided in the Contract Drawings, Specifications, and Addenda, the Means and Methods of Construction shall be such as the Contractor may choose; subject, however, to the Resident Engineer's right to reject the Means and Methods of Construction proposed by the Contractor

which in his/her opinion: (i) will constitute or create a hazard to the Work, or to persons or property; (ii) will not produce finished Work in accordance with the terms of the Contract; and/or (iii) will be detrimental to the overall progress of the Project.

4.2 The City's approval of the Contractor's Means and Methods of Construction, or his/her failure to exercise his/her right to reject such means or methods, shall not relieve the Contractor of its obligation to complete the Work as provided in this Contract, nor shall the exercise of such right to reject create a cause of action for damages.

ARTICLE 5. CONTRACTORS

5.1 Superintendence by Contractor. The Contractor shall employ a full-time competent construction superintendent and necessary staff. The construction superintendent shall devote full time to the Work and shall have full authority to act for the Contractor at all times. If at any time the superintendent is not satisfactory to the City, the Contractor shall, if requested in writing by the City, replace said superintendent with another superintendent satisfactory to the City.

5.2 Subsurface or Site Conditions Found Different. The Contractor acknowledges that the Contract consideration includes such provisions which the Contractor deems proper for all subsurface or site conditions the Contractor could reasonably anticipate encountering as indicated in the Contract, or borings, reports, rock cores foundation investigation reports, topographical maps or other information available to the Contractor or from the Contractor's inspection and examination of the Site prior to submission of bids. Should the Contractor encounter subsurface or site conditions at the Site materially different from those shown on or described in or indicated in the Contract, the Contractor shall immediately give notice to the Resident Engineer of the differing conditions and shall not disturb the differing conditions until directed to do so by the Resident Engineer.

5.3 Verifying Dimensions. The Contractor shall take all measurements at the Site and shall verify all dimensions at the Site before proceeding with the Work. If said dimensions are found to be in conflict with the Contract, the Contractor immediately shall give notice to the City. The Contractor shall comply with any revised Contract Documents. During the progress of Work, the Contractor shall verify all field measurements prior to fabrication of building components or equipment, and proceed with the fabrication to meet field conditions. The Contractor shall consult all Contract Documents to determine the exact location of all Work and verify spatial relationships of all Work. Any question concerning location or spatial relationships may be submitted to the Resident Engineer. Special locations for equipment, pipelines, ductwork and other such items of Work, where not dimensioned on plans, shall be determined in consultation with the Resident Engineer. The Contractor shall at all times be responsible for the proper fitting of the Work in place.

5.4 <u>Related Work.</u> The Contractor shall examine the Contract for related work to ascertain the relationship of said work to the Work under the Contract.

5.5 <u>Surveys and Layout.</u> Unless otherwise expressly provided in the Contract, the Resident Engineer shall furnish the Contractor with all surveys of the Site necessary for the Work. The Contractor shall be responsible for the layout of the Work.

5.6 <u>Errors, Ambiguities or Discrepancies</u>. The Contractor shall examine the Contract thoroughly before commencing the Work and promptly report any errors, ambiguities or discrepancies to the Resident Engineer. Failure of the Contractor to do so shall result in a waiver of any claim by the Contractor based on such errors, ambiguities or discrepancies.

ARTICLE 6. INSPECTION AND ACCEPTANCE

6.1 <u>Access to Work</u>. During the progress of the Work and up to the date of Final Acceptance, the Contractor shall maintain, at all times afford the City, access to the Work, materials and equipment at the Site.

6.2 Notice of Testing. If the Contract Documents, the City's instructions, Laws, rules, ordinances, or regulations require that any Work be inspected or tested, the Contractor shall give the City timely notice of readiness of the Work for inspection or testing and the date/time for said inspections or testing.

6.3 Reexamination of Work. Reexamination of any part of the Work may be ordered by the City, and if ordered, the Work must be uncovered or taken down by the Contractor. If the exposed Work proves satisfactory, such uncovering or taking down and restoration shall be considered an item of Extra Work to be paid by the City. If the Work exposed proves unsatisfactory, the City has no obligation to compensate the Contractor for the uncovering, taking down or restoration.

6.4 Inspection of Work. Inspection and approval by the City of finished Work, or of Work being performed, or of materials and equipment at the place of manufacture or preparation, shall not relieve the Contractor of its obligation to perform the Work in strict accordance with the Contract. Finished or unfinished Work not found to be in strict accordance with the Contract shall be replaced as directed by the Resident Engineer, even if such Work may have been previously approved and paid for. Such corrective Work is Contract Work and shall not be deemed Extra Work.

6.5 <u>Testing</u>. All materials and equipment used in the Work shall be subject to inspection and testing in accordance with accepted standards to establish conformance with Specifications and suitability for uses intended, unless otherwise specified in the Contract. If any Work shall be covered or concealed without the approval or consent of the City, that Work shall, if directed by the City, be uncovered for examination. Any inspection by the City or by a testing laboratory on behalf of the City does not relieve the Contractor of the responsibility to maintain quality control of materials, equipment and installation to conform to the requirements of the Contract. If any test results are below accepted standards, the City may order additional testing. The cost of said additional testing, any additional professional services required, and any other expenses incurred by the City as a result of such additional testing, shall be paid by the Contractor.

6.6 <u>Acceptance</u>. No previous inspection shall relieve the Contractor of the obligation to perform the Work in accordance with the Contract. No payment, either partial or full, by the City to the Contractor shall excuse any failure by the Contractor to comply fully with the Contract. The Contractor shall remedy all defects and incur the cost of any damage to other Work resulting therefrom.

6.7 <u>Rejected Work</u>. Any rejected Work and materials shall be promptly taken down and removed from the Site, which must at all times be kept in a reasonably clean and neat condition.

6.8 <u>Manufacturer's Guarantee</u>. The Contractor shall secure from the manufacturers of all equipment and materials required under the Contract such manufacturer's standard warranties and guarantees (or such other warranties and guarantees as the Specifications may require) in the name of the City of New Rochelle and shall deliver the same to the Resident Engineer.

ARTICLE 7. PROTECTION OF WORK AND OF PERSONS AND PROPERTY: NOTICES AND INDEMNIFICATION

7.1 During the performance of the Work and up to the date of Final Acceptance, the Contractor shall be under an absolute obligation to protect the finished and unfinished Work against any damage, loss, injury, theft, and/or vandalism, and in the event of such damage, loss, injury, theft, and/or vandalism, it shall promptly replace and/or repair such Work at the Contractor's sole cost and expense, as directed by the Resident Engineer. The obligation to deliver finished Work in strict accordance with the Contract prior to Final Acceptance shall be absolute and shall not be affected by the Resident Engineer's approval of, or failure to prohibit, the Means and Methods of Construction used by the Contractor.

7.2 During the performance of the Work and up to the date of Final Acceptance, the Contractor shall take all reasonable precautions to protect all persons and property of the City and of others from damage, loss or injury resulting from the Contractor's and/or its Subcontractors' operations under this Contract. The Contractor's obligation to protect shall include the duty to provide, place or replace, and adequately maintain at or about the Site suitable and sufficient protection such as lights, barricades, and enclosures.

7.3 In the event of any loss, damage or injury to Work, persons or property, or any accidents arising out of the operations of the Contractor and/or its Subcontractors under this Contract, the Contractor shall submit a full report in writing to the Resident Engineer within three (3) Days after the occurrence. The Contractor shall also send written notice of any such event to all insurance carriers that issued potentially responsive policies (including commercial general liability insurance carriers for events relating to the Contractor's own employees) no later than twenty (20) Days after such event and again no later than twenty (20) Days after the initiation of any claim and/or action resulting therefrom. For any policy on which the City is an additional insured, such notice shall expressly state that "this notice is being given on behalf of the City of New Rochelle as an additional insured, as well as the Named Insured." Whenever such notice is sent under a policy on which the City is an additional insured, the Contractor shall provide copies of the notice to the Commissioner and the City's Corporation Counsel at the notice address herein. If the Contractor fails to provide any of the foregoing notices to any appropriate insurance carrier(s) in a timely and complete manner, the Contractor shall indemnify the City for all losses, judgments, settlements, and expenses, including reasonable attorneys' fees, arising from an insurer's disclaimer of coverage citing late notice by or on behalf of the City.

7.4 <u>Indemnification</u>. To the fullest extent permitted by law, the Contractor shall defend, indemnify, and hold the City, its officials, employees, and agents (the "Indemnitees") harmless against any and all claims (including claims asserted by any employee of the Contractor and/or its Subcontractors) and costs and expenses of whatever kind (including payment or reimbursement of attorneys' fees and disbursements) allegedly arising out of or in any way related to the operations of the Contractor and/or its Subcontractors in the performance of this Contract or from the Contractor's and/or its Subcontractors' failure to comply with any of the provisions of this Contract or of the Law. Such costs and expenses shall include all those incurred in defending any underlying claim and those incurred in connection with the enforcement of this

Article by way of cross-claim, third-party claim, declaratory action or otherwise. The parties expressly agree that the indemnification obligation hereunder contemplates (1) full indemnity in the event of liability imposed against the Indemnitees without negligence and solely by reason of statute, operation of Law or otherwise; and (2) partial indemnity in the event of any actual negligence on the part of the Indemnitees either causing or contributing to the underlying claim (in which case, indemnification will be limited to any liability imposed over and above that percentage attributable to actual fault whether by statute, by operation of Law, or otherwise). Where partial indemnity is provided hereunder, all costs and expenses shall be indemnified on a pro rata basis. Indemnification under this Article or any other provision of the Contract shall operate whether or not Contractor or its Subcontractors have placed and maintained the insurance specified under Article 22.

7.5 The provisions of this Article 7 shall not be deemed to create any new right of action in favor of third parties against the Contractor or the City.

7.6 Construction Site Emergency. A construction site emergency is as an unforeseen condition or event requiring prompt action by the Contractor. Construction site emergencies include, but are not limited to, construction related accidents, uncontrolled release of asbestos, lead dust or other hazardous materials or contamination, natural disasters, automobile accidents, floods and fire. The Contractor must notify the City of a construction site emergency within a half-hour of the occurrence of the event, in accordance with the following:

- 7.6.1 If the emergency occurs during regular business hours the Contractor must notify the Resident Engineer and call the New Rochelle Police Department at (914) 654-2300.
- 7.6.2 During non-business hours the emergency shall be reported by the Contractor to the New Rochelle Police Department, and shall also be reported to the Resident Engineer at the earliest opportunity.

CHAPTER III: TIME PROVISIONS

ARTICLE 8. COMMENCEMENT AND PROSECUTION OF WORK; TIME FOR COMPLETION: LIOUIDATED DAMAGES

8.1 The Work shall commence as specified in the Notice to Proceed and shall be substantially completed within the time set forth in Schedule "A" to this General Agreement. The date of commencement and time for completion, as specified in the Contract, are essential conditions of the Contract.

8.2 The Contractor shall perform the Work regularly, diligently, and without interruption at such rate of progress as to insure timely completion of same, taking into consideration the average climatic range and usual industrial conditions prevailing at the Site.

8.3 Should the Contractor fail to timely commence or perform any Work, or otherwise fail to carry out any directions consistent with the terms of the Contract after written notice from the City, the City may have such work done or materials furnished by others and deduct the cost thereof from the monies due, or to become due under the Contract.

8.4 Should the Contractor fail to complete the Work within the time specified or any proper extension thereof, the Contractor shall pay to the City, as a partial consideration for the Contract, the amount specified in Schedule A to this General Agreement, not as a penalty, but as liquidated damages for breach of contract, for each and every Day that the Contractor shall be in default.

8.5 The amount of liquidated damages is agreed upon by the Contractor and the City as set forth in Schedule A to this General Agreement because of the impracticality and extreme difficulty of fixing and ascertaining the actual damages which the City would sustain in said event and such amount is agreed to be the amount of damages which the City or its beneficiaries would sustain and said amount shall be retained by the City.

8.6 In the event the Contractor fails to complete the Work within the time fixed for such completion in Schedule A to this General Agreement, plus authorized time extensions, or if the Contractor, in the sole determination of the City, has abandoned the Work, the Contractor shall pay to the City the sum fixed in Schedule A to this General Agreement, for each and every Day that the time consumed in completing the Work exceeds the time allowed therefor.

8.7 Liquidated damages received under this Article 8 are not intended to be nor shall they be treated as either a partial or full waiver or discharge of the City's right to indemnification under Article 7, or the Contractor's obligation to indemnify the City, or to any other remedy provided for in this Contract or by Law. Any failure to assess liquidated damages shall not operate as a waiver or release of any claim the City may have against the Contractor for either actual or liquidated damages.

8.8 The City will deduct and retain out of the monies which may become due hereunder, the amount of any such liquidated damages, and in case the amount which may become due hereunder shall be less than the amount of liquidated damages suffered by the City, the Contractor shall be liable to pay the difference upon demand by the City.

8.9 TIME IS OF THE ESSENCE for each and every portion of the Work. In any instance in which additional time is allowed for completion, the new time of completion established by the relevant change order shall be of the essence. The Contractor shall not be charged with liquidated damages or any excess cost if the Resident Engineer determines in writing that the Contactor is without fault and the Contractor's reason for the time extension is acceptable to the City. Nor shall the Contractor be charged with liquidated damages or any excess cost if the delay in completion is due to an unforeseeable cause beyond the control and without the fault of, or negligence of the Contractor, and approved by the City, including but not limited to acts of God or public enemy, acts of the City, epidemics, quarantine, restrictions, strikes, freight embargoes and unusually severe weather.

8.10 The time for completion can only be extended by change order pursuant to Article 24 and may be extended for all the Work or only that portion of the Work altered by the change order.

8.11 Permitting the Contractor to continue with the Work after the time for its completion has expired, or the making of any payment to the Contractor after such time, shall in no way operate as a waiver on the part of the City of any of its rights under this Contract.

8.12 Application for an Extension of Time

- 8.12.1 Before a change order for a time extension request may be approved, the Contractor must, within five (5) business days after the commencement of the condition which allegedly has caused or is causing the delay, submit a written application to the Resident Engineer identifying:
 - (a) the Contractor and Project description;
 - (b) liquidated damage assessment rate as specified in the Contract;
 - (c) original bid amount;
 - (d) original Contract start date and completion date;
 - (e) any previous time extensions granted (number and duration); and
 - (f) the extension of time requested.
- 8.12.2 In addition, the application for an extension of time shall set forth in detail:
 - (a) the nature of each alleged cause of delay in completing the Work;
 - (b) the date upon which each such cause of delay began and ended and the number of days attributable to each such cause;
 - (c) a statement that the Contractor waives all claims except for those delineated in the application, and the particulars of any claims which the Contractor does not agree to waive. For time extensions for Substantial Completion and final completion payments, the application shall include a detailed statement of the dollar amounts of each element of claim item reserved; and
 - (d) a statement indicating the Contractor's understanding that the time extension is granted only for purposes of permitting continuation of Contract performance and payment for Work performed and that the City retains its right to conduct an investigation and assess liquidated damages as appropriate in the future.

8.13 Failure of the Contractor to strictly comply with the requirements of Article 8 may, in the discretion of the Resident Engineer, be deemed sufficient cause to deny any extension of time on account of delay arising out of such condition or interference.

8.14 Grounds for Extension. If such application is made, the Contractor shall be entitled to an extension of time for delay in completion of the Work caused solely by (i) the acts or omissions of the City, its officials, agents or employees; or (ii) the acts, omissions, or interferences of public/governmental bodies, utilities, or private enterprises; or (iii) supervening conditions entirely beyond the control of either party hereto, including without limitation, acts of God or the public enemy, unusually severe weather, epidemics, quarantine, restrictions, strikes, and freight embargoes, not brought about by any act or omission of the Contractor. In addition, the City may, in its sole discretion, grant the Contractor an extension of time to complete the Work for any other reason, provided the delay is not caused by or the result of any act, fault or omission of the Contractor, or of its Subcontractors or Materialmen.

8.15 The Contractor shall not be entitled to an extension of time if the delay is caused by or the result of any act, fault or omission of the Contractor, or of its Subcontractors or Materialmen.

8.16 If one of several causes of delay operating concurrently results from any act, fault or omission of the Contractor or of its Subcontractors or Materialmen, and would of itself have delayed the Work, no extension of time will be allowed.

8.17 The granting of an application for an extension for causes of delay other than those herein referenced to shall be entirely within the discretion of the Commissioner. The determination made by the Commissioner on an application for an extension of time shall be binding and conclusive on the Contractor.

8.18 Notwithstanding the procedures set forth in this Article, the Resident Engineer may, in his discretion, grant a one-time extension, in writing, not to exceed thirty (30) days.

ARTICLE 9. PROGRESS SCHEDULES

9.1 To enable the Work to be performed in an orderly and expeditious manner, the Contractor, within fifteen (15) Days after the Notice to Proceed, shall submit to the Resident Engineer a proposed progress schedule based on the Critical Path Method in the form of a bar graph or in such other form specified by the Resident Engineer showing:

- 9.1.1 The anticipated time of commencement and completion of each of the various operations to be performed under this Contract; and
- 9.1.2 The sequence and interrelation of each of these operations with the others and with those of other related contracts; and
- 9.1.3 The estimated time required for fabrication or delivery, or both, of all materials and equipment required for the Work, including the anticipated time for obtaining required approvals pursuant to Article 10.

9.2 The proposed schedule shall be revised as directed by the Resident Engineer, until finally approved by the Resident Engineer, and after such approval shall be strictly adhered to by the Contractor. If the Contractor fails to adhere to the approved progress schedule, or to the schedule as revised, it shall promptly adopt such other or additional Means and Methods of Construction, at its sole cost and expense, as will make up for the time lost and will assure completion in accordance with the approved progress schedule. The Contractor will not receive any payments until the proposed progress schedule is submitted.

9.3 To ensure on a continuous basis that the Contractor is pursuing the critical path work activities, the Contractor shall attend weekly progress meetings and any other special meetings as directed by the City at no additional cost to the City, and shall provide the Resident Engineer with a two-week-look-ahead schedule identifying planned weekly work activities. This look-ahead schedule shall be updated every two (2) weeks. Failure to attend scheduled meetings or to submit the look-ahead schedule as indicated may result in the withholding of partial payment estimates.

ARTICLE 10. COORDINATION WITH OTHER CONTRACTORS

10.1 During the progress of the Work, Other Contractors may be engaged in performing other work on this Project. In that event, the Contractor shall coordinate the Work to be done hereunder with the work of such Other Contractors and the Contractor shall fully cooperate with such Other Contractors and carefully fit its own Work to that provided under other contracts as may be directed by the Resident Engineer. The Contractor shall not commit or permit any act which will interfere with the performance of work by any Other Contractors.

10.2 If the Resident Engineer determines that the Contractor is failing to coordinate its Work with the work of Other Contractors as the Resident Engineer has directed, then the City shall have the right to withhold any payments otherwise due hereunder until the Contractor completely complies with the Resident Engineer's directions.

10.3 The Contractor shall notify the Resident Engineer in writing if any Other Contractor on this Project is failing to coordinate its work with the Work of this Contract. If the Resident Engineer finds such charges to be true, the Resident Engineer shall promptly issue such directions to the Other Contractor as the situation may require. The City shall not, however, be liable for any damages suffered by any Other Contractor's failure to coordinate its work with the Work of this Contract or by reason of the Other Contractor's failure to promptly comply with the directions issued by the Resident Engineer, or by reason of any Other Contractor's default in performance; it being understood that the City does not guarantee the responsibility or continued efficiency of any contractor.

10.4 The Contractor agrees to make no claim against the City for any damages arising out of any directions issued by the Resident Engineer pursuant to this Article (including any failure of any Other Contractor to comply with such directions), or the failure of the Resident Engineer to issue any directions, or the failure of any Other Contractor to coordinate its work, or the default in performance of any Other Contractor.

10.5 To the fullest extent provided by law, the Contractor shall indemnify and hold the City harmless from any and all claims, damages, and costs and expenses to which the City may suffer or incur by reason of the Contractor's failure to comply with the Resident Engineer's directions promptly. Insofar as the facts and law relating to any claim would preclude the City from being completely indemnified by the Contractor, the City shall be partially indemnified by the Contractor.

10.6 Should the Contractor sustain any damage through any act or omission of any Other Contractor having a contract with the City for the performance of work upon the Site or of work which may be necessary to be performed for the proper prosecution of the Work to be performed hereunder, or through any act or omission of a subcontractor of such Other Contractor, the Contractor shall have no claim against the City for such damage.

10.7 Should any Other Contractor having a contract with the City for the performance of Work upon the Site sustain any damage through any act or omission of the Contractor or through any act or omission of any subcontractor of the Contractor, the Contractor agrees to reimburse such other Contractor for all such damages and to defend at his own expense any suit based upon such claim and if any judgment or claims against the City shall be allowed, the Contractor shall pay or satisfy such judgment or claim and pay all costs and expenses in connection therewith and shall indemnify and hold the City harmless from all such claims to the fullest extent permitted by law.

10.8 The City's right to indemnification hereunder shall in no way be diminished, waived or discharged by its recourse to assessment of liquidated damages as provided in this General Agreement, or by the exercise of any other remedy provided for by this Contract or by Law.

City of New Rochelle April 2019

ARTICLE 11. NO DAMAGES FOR DELAY

11.1 The Contractor agrees to make no claim for damages for delay in the performance of this Contract occasioned by any act or omission to act of the City or any of its representatives, and agrees that any such claim may be fully compensated for by an extension of time to complete performance of the Work as provided herein.

ARTICLE 12. SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE OF WORK

12.1 The Contractor shall substantially complete the Work within the time fixed in Schedule A of the General Agreement, or within the time such Substantial Completion may be extended. The Work will be deemed to be substantially complete when the following conditions have been met. The City will then issue a Certificate of Substantial Completion.

- 12.1.1 <u>Inspection</u>. The Resident Engineer has inspected the Work and has made a written determination that it is substantially complete; and
- 12.1.2 <u>Final Approved Punch List.</u> Following inspection of the Work, the Resident Engineer shall furnish the Contractor with a final punch list, specifying all items of Work to be completed and proposing dates for the completion of each specified item of Work. The Contractor shall then submit in writing to the Resident Engineer within ten (10) Days of the Resident Engineer furnishing the final punch list either acceptance of the dates or proposed alternative dates for the completion of each specified item of Work. If the Contractor neither accepts the dates nor proposes alternative dates within ten (10) Days, the schedule proposed by the Resident Engineer shall be deemed accepted. If the Contractor proposes alternative dates, then, within a reasonable time after receipt the Resident Engineer, in a written notification to the Contractor, shall approve the Contractor's completion of each item of Work. The latest completion date specified shall be the date for Final Acceptance of the Work; and

12.2 Date of Substantial Completion. The date of approval of the Final Approved Punch List shall be the date of Substantial Completion.

12.3 The date of approval of the Final Approved Punch List shall be either (a) if the Contractor approves the final punch list and proposed dates for completion furnished by the Resident Engineer, the date of the Contractor's approval; or (b) if the Contractor neither accepts the dates nor proposes alternative dates, ten (10) Days after the Resident Engineer furnishes the Contractor with a final punch list and proposed dates for completion; or (c) if the Contractor proposes alterative dates, the date that the Resident Engineer sends written notification to the Contractor either approving the Contractor's proposed alternative dates or establishing dates for the completion for each item of Work.

12.4 <u>Date of Final Acceptance</u>. The Work will be accepted as final and complete as of the date of the Resident Engineer's inspection if, upon such inspection, the Resident Engineer finds that all items on the Final Approved Punch List are complete and no further Work (or approvals) remains to be done. The Commissioner will then issue a written determination of Final Acceptance.

12.5 Inspection of the Work by the Resident Engineer for the purpose of Substantial Completion or Final Acceptance shall be made within fourteen (14) Days after receipt of the Contractor's written request. If upon such inspection the Resident Engineer determines that there are items of Work still to be performed, the Contractor shall promptly perform them and then request a re-inspection. If upon re-inspection the Resident Engineer determines that the vorplete or finally accepted, the date of such re-inspection shall be the date of Substantial Completion or Final Acceptance. Re-inspection by the Resident Engineer shall be made within ten (10) Days after receipt of the Contractor's written request. If the Contractor does not request inspection or re-inspection of the Work for the purpose of Substantial Completion or Final Acceptance, the Resident Engineer may initiate such inspection or re-inspection.

ARTICLE 13. OCCUPATION OR USE PRIOR TO COMPLETION

13.1 Unless otherwise provided for in the Specifications, the City may take over, use, occupy or operate any part of the Work at any time prior to Final Acceptance, upon written notification to the Contractor. The Resident Engineer shall inspect the part of the Work to be taken over, used, occupied, or operated, and will furnish the Contractor with a written statement of the Work, if any, which remains to be performed on such part. The Contractor shall not object to nor interfere with the City's decision to exercise the rights granted by this Article. In the event the City takes over, uses, occupies, or operates any part of the Work: (i) the Resident Engineer shall issue a written determination of Substantial Completion with respect to such part of the Work; (ii) the Contractor shall be relieved of its absolute obligation to protect such part of the unfinished Work; (iii) the Contractor shall be entitled to a return of so much of the amount retained in accordance with Article 20 as it relates to such part of the Work, except so much thereof as may be retained under Articles 21 and 36.

CHAPTER IV: SUBCONTRACTS AND ASSIGNMENTS

ARTICLE 14. SUBCONTRACTS

14.1 No Work may be performed by a Subcontractor prior to the Contractor entering into a written subcontract with the Subcontractor and complying with the provisions of this Article.

14.2 The Contractor shall not make subcontracts totaling an amount more than the percentage of the total Contract price fixed in Schedule A of the General Agreement, without prior written consent from the Commissioner.

14.3 Before making any subcontracts, the Contractor shall submit a written statement to the Resident Engineer giving the name and address of the proposed Subcontractor, the portion of the Work and materials he is to perform and furnish, the cost of the subcontract, and any other information tending to prove that the proposed Subcontractor has the necessary facilities, skill, integrity, past experience and financial resources to perform the Work in accordance with the terms and conditions of this Contract. All Subcontractors must be approved by the City.

14.4 The City will notify the Contractor in writing whether the proposed Subcontractor is approved. If the proposed Subcontractor is not approved, the Contractor may submit another proposed Subcontractor

unless the Contractor decides to do the Work. No Subcontractor shall be permitted to enter or perform any work on the Site unless approved.

14.5 If an approved Subcontractor elects to subcontract any portion of its subcontract, the proposed subsubcontract shall be submitted in the same manner as directed above.

14.6 The Contractor shall provide each proposed Subcontractor with a complete copy of this document, and each Subcontractor shall expressly stipulate that all labor performed and materials furnished by the Subcontractor shall strictly comply with the requirements of this Contract.

14.7 The City's approval of a Subcontractor shall not relieve the Contactor of any of its responsibilities, duties, and liabilities hereunder. The Contactor shall be solely responsible to the City for the acts or defaults of its Subcontractor and of such Subcontractors sub-contractors, each of whom shall, for this purpose, be deemed to be the agent or employee of the Contractor to the extent of its subcontract.

14.8 If the Subcontractor fails to maintain the necessary facilities, skill, integrity, past experience, and financial resources (other than due to the Contractor's failure to make payments where required) to perform the Work in accordance with the terms and conditions of this Contract, the Contractor shall promptly notify the Resident Engineer and replace such Subcontractor with a newly approved Subcontractor in accordance with this Article.

14.9 The Contractor shall be responsible for ensuring that all Subcontractors performing Work at the Site obtain and maintain all insurance required by Law and Article 22 of this Contract during the performance of the Work. The City shall be named as an additional insured on the Subcontractor's insurance.

14.10 The Contractor shall promptly file with the Resident Engineer an executed copy of the subcontract and its cost.

14.11 Every subcontract shall provide expressly that such Subcontract (and all rights of any Subcontractor thereunder) is subject to all requirements of this Contract and that all Work under the subcontract shall comply with all requirements of this Contract. Each Subcontract shall include a provision authorizing termination for necessity or convenience by the Contractor and a provision under which the Subcontractor agrees that the Subcontractor's obligations shall be assigned to the City, at the City's election, upon a termination of the Contractor's rights to perform the Contract. Each subcontract shall contain the same terms and conditions as to the method of payment for Work, and as to retained percentages, as are set forth in the Contract, and the Contractor shall pay each Subcontractor in accordance with the terms of the applicable subcontract for Work performed by the Subcontractor.

14.12 The Commissioner may deduct from the amounts certified under this Contract to be due to the Contractor, the sums due and owing from the Contractor to any Subcontractor according to the terms of the subcontract, and in case of dispute between the Contractor and its Subcontractor(s) as to the amount due and owing, the City may deduct and withhold from the amounts certified under this Contract to be due to the Contractor such sums as may be claimed by such Subcontractor(s), in a sworn affidavit, to be due and owing until such time as such claim(s) shall have been finally resolved.

14.13 The Contractor's execution of any subcontract shall be deemed a representation to the City that the Contractor has informed the Subcontractor fully and completely of all of the requirement of this Article, and has taken all steps necessary to ensure that each and every Subcontractor meets the minimum qualifications required by the City of any contractor submitting bids for any City work.

ARTICLE 15. ASSIGNMENTS

15.1 The Contractor shall not assign, transfer, convey or otherwise dispose of this Contract, or the right to execute it, or the right, title or interest in or to it or any part thereof, or assign, by power of attorney or otherwise any of the monies due or to become due under this Contract, without the prior written consent of the City. The giving of any such consent to a particular assignment shall not dispense with the necessity of such consent to any other assignments.

15.2 Failure to obtain the prior written consent of the City to such an assignment, transfer or conveyance, may result in the revocation and annulment of this Contract. The City shall thereupon be relieved and discharged from any further liability and obligations to the Contractor, its assignees or transferees, and all monies previously earned and unpaid under the Contract shall be forfeited to the City, except so much as may be required to pay the Contractor's employees.

15.3 This Contract may be assigned by the City to any corporation, agency or instrumentality having authority to accept such assignment.

[ARTICLES 16, 17 AND 18 INTENTIONALLY OMITTED]

CHAPTER V: CONTRACTOR'S SECURITY AND GUARANTY

ARTICLE 19. PERFORMANCE SECURITY

19.1 Within ten (10) days after notice of award of the Contract, the Contractor shall furnish an executed performance bond for one hundred (100%) of the Contract price satisfactory to the City.

ARTICLE 20. RETAINED PERCENTAGES

20.1 As further security for the faithful performance of this Contract, the Commissioner shall deduct and retain until Substantial Completion of the Work, five percent (5%) of the value of the Work done and materials furnished for payment in each partial payment voucher.

20.2 Within thirty (30) Days after Substantial Completion of the Work and the filing of a Certificate of Substantial Completion by the Contractor with the Department of Finance signed by the Resident Engineer and Commissioner, all sums retained and remaining shall be released to the Contractor without interest, after deducting from the total value of the Work performed according to the terms of the Contract: (a) two times the value of any remaining items to be completed; (b) an amount the City deems necessary to satisfy any actual or alleged claims, liens or judgments against the Contractor; and (c) all sums the City may retain for periods of maintenance and guarantee as provided in Article 21.

City of New Rochelle April 2019

ARTICLE 21. MAINTENANCE AND GUARANTY

21.1 The Contractor shall promptly repair, replace, restore or rebuild, as the Resident Engineer may determine, any finished Work in which defects of materials or workmanship may appear or to which damage may occur because of such defects, during the two (2) year period subsequent to the date of final completion of the Work.

21.2 As security for the faithful performance of this Contract, the City shall hold the sum of two percent (2%) of the Contract for a period of two (2) years for materials, parts and labor guarantee. The Contractor shall be responsible for supplying materials, parts and labor for the entire Work until the time of its Final Acceptance by the City, and shall keep every portion of it in perfect order and repair for a period of two (2) years after final completion of the Work, excepting such damages caused by the sole acts of the City, its officials, employees or agents.

21.3 If, after the guarantee period, the City determines that the Contractor has faithfully performed all of its obligations hereunder, the sum without interest shall be released to the Contractor upon demand by the Contractor.

21.4 If the Contractor fails to repair, replace, rebuild or restore such defective or damaged Work promptly after receiving notice, the City shall have the right to have the Work done by others, and to deduct the cost from the amounts deposited hereunder. The balance, if any, shall be released to the Contractor without interest. Should the amount deposited be insufficient to cover such Work, the Contractor shall be liable to pay such deficiency on demand by the City.

21.5 The Resident Engineer's certificate setting forth the fair and reasonable cost of repairing, replacing, rebuilding or restoring any damaged or defective Work when performed by one other than the Contractor, shall be binding and conclusive upon the Contractor as to the amount thereof.

ARTICLE 22. INSURANCE

22.1 At all times during the Contract up to the date of Final Acceptance, the Contractor must secure and maintain the types and limits of insurance set forth in Schedule A to this General Agreement.

ARTICLE 23. MONEY RETAINED AGAINST CLAIMS

23.1 If an action is commenced and the liability of the Contractor has been established by a final judgment of a court of competent jurisdiction, or if such claim shall have been admitted by the Contractor to be valid, the City shall pay such judgment or admitted claim out of the monies retained under Article 20, and return the balance, if any, without interest, to the Contractor.

CHAPTER VI: CHANGES, EXTRA WORK AND DOCUMENTATION OF CLAIM

ARTICLE 24. CONTRACT CHANGES

24.1 Changes may be made to this Contract only as duly authorized by the Resident Engineer in writing. All such changes, modifications and amendments will become a part of the Contract. Any Work so ordered shall be performed by the Contractor. Contractors deviating from the requirements of the original Contract without a duly approved change order or amendment do so at their own risk.

24.2 Contract changes will be made only as necessary to complete the Work included in the original scope of the Contract and/or for non-material changes to the scope of the Contract. Contract changes may include any contract revision deemed necessary by the City.

24.3 The Contractor shall be entitled to a price adjustment for Extra Work performed pursuant to a written change order. No claim for Extra Work shall be allowed unless the same was done pursuant to a written order by the City.

24.4 The cost of any change order work is subject to verification by audit. If the audit reveals that the Contractor's costs for change order work were inaccurately stated, the City shall recoup the amount by which the costs were inaccurately stated, plus any and all costs incurred by the City to conduct the audit, by proportionately reducing the price of the change order. This remedy is not exclusive and is in addition to all other rights and remedies of the City under this Contract and the Law.

ARTICLE 25. METHODS OF PAYMENT FOR EXTRA WORK

25.1 Overrun of Unit Price Item. An "overrun" is any quantity of a unit price item which the Contractor is directed to provide which is in excess of one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule.

- 25.1.1 For any unit price item, the Contractor will be paid at the unit price bid for any quantity up to one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule. If during the progress of the Work, the actual quantity of any unit price item required to complete the Work approaches the estimated quantity for that item, and for any reason it appears that the actual quantity of any unit price item necessary to complete the Work will exceed the estimated quantity for that item by twenty five (25%) percent, the Contractor shall immediately notify the Resident Engineer of such anticipated overrun. The Contractor shall not be compensated for any quantity of a unit price item provided which is in excess of one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule without written authorization from the Resident Engineer.
- 25.1.2 If the actual quantity of any unit price item necessary to complete the Work exceeds one hundred twenty-five (125%) percent of the estimated quantity for that item set forth in the bid schedule, the City and Contractor agree to negotiate a new unit price for such item. In no event shall such negotiated new unit price exceed the unit bid price. If the City and

Contractor cannot agree on a new unit price, then the City shall order the Contractor and the Contractor agrees to provide additional quantities of the item on the basis of time and material records for the actual and reasonable cost as determined under Article 25.2, but in no event at a unit price exceeding the unit price bid.

25.1.3 The Contractor acknowledges and agrees that the City's estimate of quantities on the various items of work and materials is approximate only, given solely to be used as a uniform basis for the comparison of bids, and is not a part of this Contract. The quantities actually required to complete the Contract Work may be less or more than so estimated, and if so, no action for damages or for loss of profits shall accrue to the Contractor by reasons thereof.

25.2 Extra Work. Extra Work for which there are applicable Contract unit prices will be paid for at such unit prices subject to the limitations set forth herein. Where there are no applicable Contract unit prices, the price to be paid for Extra Work ordered by the City, and performed by the Contractor's own forces, shall be made on a "Cost Plus" basis as follows:

- 25.2.1 For all necessary direct labor, the rates of wages actually paid shall be allowed. No part of the salary of anyone above the grade of foreman and having general supervision of the Work shall be included in the labor item unless the Contractor's job force is entirely occupied with Cost Plus work. In this case the Resident Engineer may, if he deems that the services of the superintendent and/or timekeeper are necessary, allow a part or all of their salaries to be included in the labor item; plus
- 25.2.2 All materials necessary for the Extra work (including transportation to the site; plus
- 25.2.3 All additional payroll insurance and payroll taxes required for the Extra Work; plus
- 25.2.4 All payments required to be made to labor organizations under standard existing labor agreements; plus
- 25.2.5 For maintenance, operation and rental of all power operated equipment necessary for the proper prosecution of the Extra Work on the following basis:
 - (a) Rental rates for any power operated machinery, trucks or equipment, which are necessary on Extra Work, shall be negotiated between the Resident Engineer and the Contractor prior to the start of the Extra Work.
 - (b) These rates shall be reasonable and shall be based on local rates and must be agreed upon in writing before the Extra Work is begun. In no case shall the rental rates exceed the rates set up in the current edition of the Associated Equipment Distributors' Compilation of Rental Rates for Construction Equipment, plus the cost of fuel and lubricants.
 - (c) These negotiated rates shall include all repairs, fuel, lubricants, taxes, insurance, depreciation, storage and all attachments complete, ready to operate but excluding operators. Operators shall be paid under subsection 25.2.1 above.
 - (d) In the case of equipment which had previously been brought on the job for regular Contract Work or which is to be used for regular Contract Work after the Extra Work in completed, no allowance will be made for transporting the equipment to or from the site, but if the equipment is used only for the Extra Work, then a fair allowance for transportation shall be made.
 - (e) For equipment which is, or will be, used for regular Contract Work, payment shall be made for only actual time used for the Extra Work, with a minimum of 1/8 day

of an 8-hour day. However, if the equipment is brought in for Extra Work only, then the minimum shall be $\frac{1}{2}$ day.

- (f) If the equipment is used for four (4) days or less, then daily rates shall be used as a basis payment. If the equipment is used more than four (4) days and less than twenty-one (21) days, payment shall be on a weekly rate basis of seven (7) calendar days per week. For periods longer than twenty-one (21) days, monthly rates of thirty-one (31) Days per month shall be used. For fractional periods above the rental period (day, week, or month) payment shall be proportioned on the basis of the applicable renal period.
- (g) No percentage of any kind shall be added to the amounts of equipment rental prices agreed upon and these shall be considered as total compensation for the use of such equipment.
- 25.2.6 Plus, for necessary installation and dismantling of such equipment (including transportation to and from the site), if any items; plus
- 25.2.7 Ten percent (10%) of the total of items 25.2.1 through 25.2.6 as compensation for all other items of cost or expense including administration, overhead, general superintendence, and small tools for the Extra Work. However, if any or all of the salaries of the time keeper and/or superintendent are included in the labor payroll then only five percent (5%) of the Extra Work payroll will be allowed; plus
- 25.2.8 Ten (10%) of the total of items 25.2.1 through 25.2.7 as compensation for profit, except that no percentage for overhead and profit will be allowed on payroll taxes or on the premium portion of overtime pay.

25.3 Where there are no applicable unit prices for Extra Work ordered by the City and performed in whole or in part by other than the Contractor's own forces, the Contractor shall be paid, subject to audit by the City, only the actual and reasonable cost of such subcontracted work computed as outlined above, plus an additional allowance of five percent (5%) to cover the Contractor's profit, superintendence, administration, insurance, and other overhead.

25.4 Where a change is ordered involving both Extra Work and omitted or reduced Contract Work, the Contract price shall be adjusted, subject to audit by the City, in an amount based on the difference between the value of such Extra Work and of the Work omitted or reduced. The cost of such Extra Work and of such omitted or reduced Work shall be computed in accordance with items 25.2.1 through 25.2.6 of this Article. If the cost of such Work exceeds the cost of the Work omitted or reduced, the Contract price shall be increased by the difference, plus ten percent (10%), as compensation for all other items of cost or expense including administration, overhead, general superintendence, and small tools, plus an additional ten percent (10%) of the total as compensation for profit. If the cost of Work omitted or reduced exceed the cost of such Extra Work, then the Contract price shall be reduced by such difference.

25.5 If the Contractor and City agree upon another method of payment for Extra Work, or for Extra Work ordered in connection with omitted or reduced Work, such method may, at the option of the City, be substituted for the Cost Plus method. However, if the Work is performed by a Subcontractor, the Contractor shall not be entitled to receive more than an additional allowance of five (5%) over and above the actual and reasonable cost of such Subcontractor's work.

25.6 The Contractor shall make a record of the Extra Work performed during each day at the close of the day. Both the Resident Engineer and the Contractor, or their authorized representatives, shall sign this record and a copy of the signed record shall be furnished to the Resident Engineer.

25.7 The Contractor shall furnish to the Resident Engineer satisfactory receipts, invoices, certified payrolls and vouchers covering all items of cost relating to the Extra Work and when requested by the City shall give the City access to accounts and records relating thereto. No compensation shall be allowed unless such satisfactory documentation is furnished.

25.8 If the Contractor shall decline, delay or fail to perform such Extra Work or furnish such materials as may be authorized or ordered by the Resident Engineer in writing, then the City, at its discretion, may either withhold the payment of all current estimates until the Contractor's refusal, delay or failure is eliminated or arrange for the performance of the Work or the furnishing of the materials in any manner it sees fit, and the Contractor shall not interfere with the performance of such Work nor shall he make any claim against the City because of such performance.

ARTICLE 26. DISPUTES

26.1 All disputes between the City and Contractor of the kind delineated in this Article shall be finally resolved in accordance with the provisions and procedures set forth below and shall be the exclusive means of resolving any such disputes.

26.2 This Article shall apply only to disputes about the scope of Work delineated by the Contract, the interpretation of Contract documents, the amount to be paid for Extra Work or disputed work performed in connection with the Contract, damages alleged by reason of any act or omission of the City, the conformity of the Contractor's Work to the Contract, and the acceptability and quality of the Contractor's Work. Such disputes arise when the City makes a determination with which the Contractor disagrees.

26.3 During such time as any dispute is being presented, heard, and considered pursuant to this Article, the Contract terms shall remain in force and the Contractor shall continue to perform Work as directed by the City. Failure of the Contractor to continue Work as directed shall constitute a waiver by the Contractor of said claim or dispute.

26.4 Presentation of Disputes to Commissioner. The Contractor shall present its dispute in writing ("Notice of Dispute") to the Commissioner within thirty (30) Days of receiving notice of the action or determination that is the subject of the dispute. This notice requirement shall not be read to replace any other notice requirements contained in the Contract. The Notice of Dispute shall detail all of the facts and include all of the evidence, documents and other basis upon which the Contractor relies in support of its position, as well as a detailed computation demonstrating how any amount of money claimed by the Contractor in dispute was arrived at. Within thirty (30) Days after receipt of the complete Notice of Dispute, the Resident Engineer or other designee of the Commissioner shall submit to the Commissioner all materials he/she deems pertinent to the dispute. Following initial submissions to the Commissioner, either party may demand of the other the production of any documents or materials the demanding party believes is relevant to the dispute. The requested party shall produce all relevant materials that are not otherwise protected by a legal privilege. Any question of relevancy shall be determined by the Commissioner whose decision shall be final. Willful failure of the Contractor to produce any requested material whose relevancy the Contractor

City of New Rochelle April 2019

has not disputed, or whose relevancy has been affirmatively determined, shall constitute a waiver by the Contractor of the disputed claim.

- 26.4.1 <u>Commissioner's Inquiry</u>. The Commissioner shall examine the material and may, in his discretion, convene an informal conference with the Contractor and Resident Engineer, or other designee of the Commissioner, to resolve the issue prior to reaching a determination. The Commissioner may seek technical or other expertise he deems appropriate, including the use of neutral mediators, and require any such additional materials from either or both parties as he deems fit. The Commissioner's ability to render, and the effect of a decision hereunder shall not be impaired by any negotiations in connection with the dispute presented, whether or not the Commissioner participated therein. The Commissioner may compel the participation of any Other Contractor with a contract related to the Work of this Contract and that contractor shall be bound by the decision of the Commissioner. Any other Contractor brought into the dispute resolution proceeding shall have the same rights and obligations under this Article as the Contractor.
- 26.4.2 <u>Commissioner Determination</u>. Within thirty (30) Days after the receipt of all materials and information, or such longer time as may be agreed to by the parties, the Commissioner shall make his determination and shall deliver or send a copy of such determination to the Contractor and Resident Engineer, or other designee of the Commissioner, as applicable. All determinations required to be made by the Commissioner under this Article shall be made in writing clearly stated, with a reasoned explanation for the determination based on the information and evidence presented. Failure of the Commissioner to make such determination within the time required by this Article shall be deemed a non-determination without prejudice so as to allow the dispute to proceed directly to arbitration in accordance with this Article.6
- 26.4.3 <u>Finality of Commissioner's Decision</u>. The Commissioner's decision shall be final and binding on all parties, unless presented to binding arbitration pursuant to Article 26.5.

26.5 Presentation of the Dispute to Binding Arbitration. If the claim or any portion of the claim remains in dispute, the Contractor may within thirty (30) Days of its receipt of a decision by the Commissioner, pursue resolution or determination of said dispute by submitting the dispute to the American Arbitration Association ("AAA") under its Construction Industry Arbitration Rules ("AAA Rules"). The decision or award of the arbitrator shall be final and may be entered in any court having jurisdiction. The cost of the arbitration shall be borne equally by City and Contractor.

- 26.5.1 <u>Arbitration Initiation</u>. The arbitration shall be initiated by filing a demand for arbitration in accordance with AAA Rules.
- 26.5.2 <u>Qualifications of the Arbitrator</u>. The arbitrator shall be selected by mutual agreement of the parties. The arbitrator shall be a retired judge or an attorney with at least five (5) years of experience with public works construction contract law and in arbitrating public works construction disputes. In addition, the arbitrator shall have at least twenty (20) hours of formal training in arbitration skills. In the event the parties cannot agree upon a mutually acceptable arbitrator, then the provisions of the AAA Rules shall be followed in selecting an arbitrator possessing these qualifications.
- 26.5.3 <u>Hearing Days and Location</u>. The arbitrator shall set the date, time and place for each hearing, and/or conference. The parties shall respond to requests for hearing dates in a

timely manner, be cooperative in scheduling the earliest practicable date, and adhere to the established hearing schedule. Arbitration hearings shall not be delayed except upon good cause shown.

- 26.5.4 <u>Recording Hearings</u>. All hearings to receive evidence shall be recorded by a certified stenographic reporter, with the costs borne equally by City and Contractor and allocated by the arbitrator in the final award.
- 26.5.5 <u>Waiver of Jury Trial</u>. Contractor and City each voluntarily waive the right to a jury trial with respect to any contract dispute that is subject to the provisions of this Article. Contractor shall include this provision for waiver of jury trial in its contracts with its Other Contractors who provide any portion of the Work.

26.6 No claim for Extra Work shall be allowed unless the same was done pursuant to a written order of the City. The Contractor's failure to comply with any parts of this Article 27 shall be deemed to be a conclusive and binding determination on the part of the Contractor that the dispute does not involve Extra Work and is not contrary to the terms and provisions of this Contract, and shall be deemed a waiver by the Contractor of all claims for additional compensation or damages as a result of an order, work, action or omission.

26.7 Any termination, cancellation, or alleged breach of the Contract prior to or during the pendency of any proceedings pursuant to this Article shall not affect or impair the ability of the Commissioner or arbitrator to make a binding and final decision.

ARTICLE 27. RECORD KEEPING FOR EXTRA WORK OR DISPUTED WORK

27.1 While the Contractor or any of its Subcontractors is performing Contract Work, or Extra Work, or where the Contractor believes that it or any of its Subcontractors is performing disputed work or complying with a determination or order under protest, in each such case the Contractor shall furnish the Resident Engineer daily with a written statement signed by the Contractor's representative at the Site showing:

- 27.1.1 The name, trade, and telephone number of each worker employed on such Work or engaged in complying with such determination or order, the number of hours worked, and the character of the Work each is doing; and
- 27.1.2 The nature and quantity of any materials, plant and equipment furnished or used in connection with the performance of such Work or compliance with such determination or order, and from whom purchased or rented.

27.2 A copy of such statement will be countersigned by the Resident Engineer, noting thereon any items not agreed to or questioned, and will be returned to the Contractor within two (2) business days after submission. The Contractor and its Subcontractors, when required by the City, shall also produce for inspection and copying at the office of the Contractor or Subcontractor any and all of its books, bid documents, financial statements, vouchers, records, daily job diaries, reports, and canceled checks, showing the nature and quantity of the labor, materials, plant and equipment used in the performance of such work or in complying with such determination or order, and the amounts expended therefore.

27.3 Failure to comply strictly with these requirements shall constitute a waiver of any claim for extra compensation or damages on account of the performance of such Work or compliance with such determination or order.

ARTICLE 28. OMITTED WORK

28.1 If any Contract Work in a lump sum Contract, or if any part of a lump sum item in a unit price Contract is omitted by the City, the Contract price shall be reduced by an amount equal to the estimated cost of such omitted Work, computed in accordance with items 25.2.1 through 25.2.6 above, unless the Contractor and City can agree upon another method of fixing the value of such omitted Work. If any Contract Work in a unit price Contract, whether the whole of a lump sum item or units of any other item, is omitted, no payment will be made therefore. The Contractor agrees to make no claim for damages or for loss of overhead and profit with regard to any omitted Work.

ARTICLE 29. NO ESTOPPEL

29.1 Neither the City nor any department, officer, agent or employee thereof, shall be bound, precluded or estopped by any determination, decision, approval, order, letter, payment or certificate made or given under or in connection with this Contract by the Commissioner, the Resident Engineer, or any other officer, agent or employee of the City, either before or after the final completion and acceptance of the Work and payment therefor:

- 29.1.1 From showing the true and correct classification, amount, quality or character of the Work actually done, or that any such determination, decision, order, letter, payment or certificate was untrue, incorrect or improperly made in any particular, or that the Work or any part thereof, does not in fact conform to the requirements of this Contact; and
- 29.1.2 From recovering from the Contractor any overpayment made to him, or such damages as the City may sustain by reason of the Contractor's failure to perform each and every part of this Contract in strict accordance with its terms, or both.

ARTICLE 30. WAIVER, MODIFICATIONS AND APPROPRIATIONS

30.1 <u>Waiver</u>. Waiver by the City of a breach of any provision of this Contract shall not be deemed to be a waiver of any subsequent breach and shall not be construed to be a modification of terms of the Contract unless the same shall be agreed to in writing by the City.

30.2 <u>Modification</u>. The contract may be modified by the parties in writing in a manner not materially affecting the substance hereof. It may not be altered or modified orally.

30.3 <u>Appropriations</u>. This Contract shall be deemed executory only to the extent of the monies appropriated and available for the purpose of this Contract, and no liability on account thereof shall be incurred by the Contractor beyond the amount of such monies. It is understood that neither this Contract nor any representation by any public employee or officer creates any legal or moral obligation to request, appropriate or make available monies for the purpose of this Contract.

CHAPTER VII: POWERS OF THE RESIDENT ENGINEER AND COMMISSIONER

ARTICLE 31. THE RESIDENT ENGINEER

31.1 The Resident Engineer shall be the representative of the City at the Site and shall have the power, in the first instance, to inspect the performance of the Work. The Resident Engineer shall give orders and directions contemplated under the Contract relative to the execution of the Work. The Resident Engineer shall have the power to supervise and control the performance of the Work as completed under the Contract.

31.2 The Resident Engineer, in addition to those matters elsewhere herein delegated to the Resident Engineer and expressly made subject to his determination, direction or approval, shall have the power, subject to review by the Commissioner:

- 31.2.1 To determine the amount, quality, and location of the Work to be paid for hereunder.
- 31.2.2 To determine all questions in relation to the Work, to interpret the Contract Drawings, Specifications, and Addenda, and to resolve all patent inconsistencies or ambiguities therein.
- 31.2.3 To determine how the Work of this Contract shall be coordinated with Work of Other Contractors working simultaneously on or adjacent to the Site of the Work, including the power to suspend any part of the Work, but not the whole thereof.
- 31.2.4 To make changes in the Work as he deems necessary, including the issuing of change orders for Extra Work.
- 31.2.5 To amplify the Contract Drawings, add explanatory information and furnish additional Specifications and drawings, consistent with this Contract.
- 31.2.6 To omit Contract Work whenever he deems it is in the best interest of the City to do so.

31.3 The foregoing enumeration shall not imply any limitation upon the power of the Resident Engineer. It is the intent of this Contract that all of the Work shall generally be subject to the Resident Engineer's determination, direction, approval and certification, except where otherwise expressly stated herein.

ARTICLE 32. THE COMMISSIONER

32.1 The Commissioner, in addition to those matters elsewhere herein expressly made subject to his determination, direction or approval, shall have the power:

- 32.1.1 To review and make determinations on any and all questions in relation to this Contract and its performance; and
- 32.1.2 To modify or change this Contract so as to require the performance of Extra Work (subject, however, to the limitations specified in Article 24) or the omission of Contract Work; and
- 32.1.3 To suspend the whole or any part of the Work whenever in his judgment such suspension is required in the interest of the City, or to coordinate the Work of the various contactors engaged on the Site of the Work, or to expedite the completion of the entire Project even though the completion of this Contract may be delayed.

CHAPTER VIII. CONTRACT PRICE AND PAYMENTS

ARTICLE 33. CONTRACT PRICE

33.1 In full consideration for the Contractor's performance of the Work subject to the terms and conditions hereof, the City shall pay the Contractor the lump sum price or unit prices for which this Contract was awarded, plus the amount required to be paid for any Extra Work ordered by the City under Article 24, less credit for any omitted Work pursuant to Article 28.

ARTICLE 34. PARTIAL PAYMENTS

34.1 The City shall make partial payments to the Contractor on the basis of an approved estimate of the Work performed during the preceding business month. The City shall retain five (5%) of the amount of each estimate in accordance with Article 20 hereof.

34.2 As a condition precedent to payment, the Contractor shall submit a requisition for payment to the Resident Engineer on a monthly basis (except where the Commissioner approves in writing requisitions on a more frequent basis) in a form acceptable to the City, which shall contain an estimate of the quantity and fair value of the Work done during the payment period. The City shall make all monthly partial payments based on the Resident Engineer's review and approval of the requisition for payment. Any partial payment made by the City shall not be construed as acceptance of partially completed Work or as a waiver of the right of the City to require the fulfillment of all of the terms of the Contract.

34.3 Upon receipt of a satisfactory requisition for payment, the Resident Engineer will prepare a voucher for a partial payment in the amount of such approved estimate, less any deductions authorized to be made under the terms of this Contract or by Law. Payment shall be made by the City within thirty (30) Days after receipt, audit and approval of the voucher by the City's Department of Finance.

34.4 With every application for partial payment, the Contractor shall also submit a verified statement in the form prescribed by the City setting forth the information required under Labor Law Section 220-a.

34.5 In preparing estimates for partial payment, material delivered to the Site and properly stored and secured at the Site, material in short or critical supply or material specially fabricated and other material approved to be stored off-Site under such conditions as the Resident Engineer shall prescribe may be taken into consideration. As condition of payment of material stored off-Site, the material shall be properly stored in a secured location approved by the Resident Engineer and must be made available to the City for inspection to assure compliance with Project Specifications. In order to seek payment pursuant to this Article, the Contractor must submit a list of the material in short or critical supply, material specially fabricated for the Work at the Site, or material which for any other reason must be stored off-Site. Such list must be accompanied by a detailed backup substantiating the Contactor's position that it is material in short or critical supply or material specially fabricated for Work at the Site, and such material cannot be installed shortly after delivery and must be stored off-Site. All costs related to the storage of material, or material in short or critical supply or material specially fabricated for the Work at the Site are the sole responsibility of the Contractor. In addition, the Contractor must demonstrate that the materials stored at the Site or off-

City of New Rochelle April 2019

Site has been paid for in full by the Contractor, and upon partial payment by the City becomes the sole property of the City.

ARTICLE 35. CONTRACTOR'S PAYMENT TO SUBCONTRACTORS

35.1 The Contractor shall make payment to the Subcontractors within fifteen (15) Days of the receipt of any payment from the City. The Contractor shall pay to each Subcontractor that portion of the proceeds of such payment representing the value of the Work performed by such Subcontractor, based upon the actual value of the subcontract, which has been approved and paid for by the City, less an amount necessary to satisfy any claims, liens, or judgments against such Subcontractor which have not been suitably discharged and less any amount retained by the Contractor as provided herein. The subcontract may provide that the Contractor may retain not more than five percent (5%) of each payment to such Subcontract, or not more than ten percent (10%) of each such payment if prior to entering into the subcontract. The Contractor agrees it will execute such certificate or statement as the City may require to prove compliance with this Article.

ARTICLE 36. SUBSTANTIAL COMPLETION PAYMENT

- 36.1 The Contractor shall submit with the Substantial Completion requisition:
 - 36.1.1 A final verified statement of any pending Article 26 disputes and any and all alleged claims against the City in any way connected with or arising out of this Contract, setting forth with respect to each such claim the total amount thereof, the various items of labor and materials included, and the alleged value of each item. With respect to each such claim, the Commissioner and, in the event of litigation, the City Corporation Counsel shall have the same right to inspect and copy the Contractor's books, vouchers, records, etc. Nothing contained in this provision is intended to or shall relieve the Contract. The Contractor from the obligation of complying strictly with any other provisions of the Contract. The Contractor acknowledges and agrees that unless such claims are completely set forth as herein required, the Contractor upon acceptance of the Substantial Completion payment will have waived any such claims. This provision also applies in all respects to the Final Payment.
 - 36.1.2 Final Approved Punch List.
 - 36.1.3 Where required, a request for an extension of time to achieve Substantial Completion or final extension of time.

36.2 The Resident Engineer shall issue a voucher calling for payment of any part or all of the balance due for Work performed under the Contract, including monies retained under Article 20, less any and all deductions authorized to be made under this Contract or by Law, and less twice the amount the Commissioner considers necessary to ensure the completion of the balance of the Work by the Contractor. Such a payment shall be considered a partial and not a final payment. Payment shall be made by the City within thirty (30) Days after receipt, audit and approval of the voucher by the City's Department of Finance. 36.3 No Substantial Completion payment shall be made where the Contractor failed to complete the Work within the time fixed for such completion in the Schedule A of this General Agreement, or within the time to which completion may have been extended, until an extension(s) of time for the completion of Work has been acted upon pursuant to Article 8.

36.4 No further partial payments shall be made to the Contractor after Substantial Completion, except payment(s) pursuant to any Contractor's requisition that was properly filed with the City prior to the date of Substantial Completion. The Commissioner may grant a waiver for further partial payments after the date of Substantial Completion to permit payments for change order Work and/or release of retainage and deposits pursuant to Articles 20 and 21. Such waiver shall be in writing.

36.5 The Contractor acknowledges that nothing contained in this Article is intended to or shall in any way diminish the force and effect of any other Articles herein.

ARTICLE 37. FINAL PAYMENT

37.1 As a condition precedent to receiving final payment for all Work, the Contractor shall submit all required certificates, approvals and documents, together with a requisition for the balance claimed to be due under the Contract, less the amount authorized to be retained for maintenance after Final Acceptance.

37.2 The Contractor must submit with the final requisition a final verified statement of any pending Article 26 claims and any and all alleged claims against the City, as required under subsection 36.1.1. The Contractor shall have the same obligations, and the City shall have the same rights, as referenced in Article 36.1.1 as it pertains to submission of a final verified statement. The Contractor agrees that unless such claims are completely set forth as herein required, the Contractor upon acceptance of the final payment will have waived any such claims.

37.3 After receiving the documentation herein required, the City will determine the balance due hereunder other than on account of claims, and will prepare a voucher for final payment in that amount, less any and all deductions authorized to be made by the City under this Contract or by Law. Payment pursuant to the final voucher, less any such authorized deductions, shall constitute final acceptance and final payment, and shall be made by the City within thirty (30) Days after receipt, audit and approval by the City's Department of Finance.

37.4 All prior certificates and vouchers upon which partial payments were made, being merely estimates made to enable the Contractor to prosecute the Work more advantageously, shall be subject to correction in the final voucher, and the certification of the Resident Engineer and approval of the Commissioner shall be conditions precedent to the right of the Contractor to receive any monies hereunder. Such final voucher shall be binding and conclusive upon the Contractor.

ARTICLE 38. ACCEPTANCE OF FINAL PAYMENT

38.1 The acceptance by the Contractor of the final payment shall constitute and operate as a release of the City from any and all claims of, and liability to, the Contractor for anything done or furnished for the Contractor relating to or arising out of this Contract and the Work done, and for any prior act, neglect or default on the part of the City or any of its officials, agents or employees, excepting only a claim against the City for the amounts deducted or retained in accordance with the terms and provisions of this Contract

or by Law, and excepting any claims not otherwise waived or any pending dispute resolution procedures that are contained in the verified statement filed with the Contractor's final requisition.

38.2 The Contractor agrees that the execution by it of a release in connection with the acceptance of the final payment containing language purporting to reserve rights or claims other than those specifically excepted from the operation of this Article, or those for amounts deducted by City, shall not be effective to reserve such rights or claims, notwithstanding anything stated to the contrary to the Contractor either orally or in writing by any official, agent or employee of the City.

38.3 The Contractor, prior to commencing any action for breach of Contract, must serve a detailed and verified statement upon the City's Corporation Counsel not later than forty (40) Days after the acceptance of the final payment. The statement shall specify the items upon which the claim will be based and any such claim shall be limited to such items.

ARTICLE 39. LIENS

39.1 Upon receipt of a lien, the City shall send notice to the Contractor stating that a sum of one and one half $(1\frac{1}{2})$ times the amount stated to be due in the lien shall be deducted from payments due to the Contractor. This sum shall be withheld until the lien is discharged.

ARTICLE 40. WITHHOLDING OF PAYMENTS

40.1 The City may withhold from the Contractor any part of any payment as may, in the judgment of the Resident Engineer be necessary: (a) to assure payment of just claims of any person supplying labor or materials for Work; (b) to protect the City from loss due to defective Work not remedied to the satisfaction of the City; or (c) to protect the City from loss due to injury to persons or damage to work or property of others caused by the act or neglect of the Contractor or Subcontractors. The City shall have the right to apply any amount so withheld, in such manner as the City may deem proper to satisfy claims or to secure protection. Such application of the money shall be deemed payments for the account of the Contractor.

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

CHAPTER IX: LABOR PROVISIONS

ARTICLE 41. EMPLOYEES

- 41.1 The Contractor and its Subcontractors shall not employ on the Contract Work:
 - 41.1.1 Anyone who is not competent, faithful and skilled in the Work for which he or she shall be employed, and whenever the City shall inform the Contractor that any employee is, in the City's opinion, incompetent, unfaithful, or disobedient, he shall be discharged from the Work forthwith, and shall not again be employed upon it; or
 - 41.1.2 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 workers employed by the Contractor, his

Subcontractors, or by any of the trades working in or about the Site where Work is being performed under this Contract, or by Other Contractors or their subcontractors pursuant to Other Contracts, or on any other premises or buildings owned or operated by the City, its agencies, departments, boards or authorities. Any violation by the Contractor of this requirement may be considered sufficient cause for declaring the Contractor to be in default; or

41.1.3 In accordance with Section 220 (3-e) of the Labor Law, the Contractor and his Subcontractors shall not employ on the Work any apprentice unless he is registered individually, under a bona fide program registered with the New York State Department of Labor. The allowable ratio of apprentices to journeymen in any craft classification shall not be greater than the ratio permitted to the Contractor as to his work force on any job under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered as above shall be paid the wage rate determined by the classification of Work he actually performed. The Contractor or Subcontractor will be required to furnish written evidence of the registration of his program and apprentices as well as all the appropriate ratios and wage rates, for the area of the construction prior to using any apprentices on the Contract Work.

ARTICLE 42. AFFIRMATIVE ACTION POLICIES; EMPLOYER AND PROFESSIONAL <u>RESPONSIBILITIES</u>

42.1 Affirmative Action. The Contractor shall comply with, and assist the City in implementing, all affirmative action policies set forth in the Contract as well as any such policies or regulations which may be issued or amended by the City from time to time, and all requirements under applicable Federal, State and Municipal statutes, and any applicable regulations thereunder, relating to equal employment opportunities for all individuals.

42.2 Employer Responsibilities. The Contractor shall comply with the provisions of all applicable State and Municipal requirements and with all State and Federal laws applicable to the Contractor as an employer of labor or otherwise as well as any labor provisions set forth in this Contract or required by Law.

42.3 Professional Status Requirements. The Contractor shall comply, at its own expense, with all rules, regulations and licensing requirements pertaining to its professional status and that of its employees, partners, associates, Subcontractors and others employed to undertake and complete the Work hereunder.

ARTICLE 43. LABOR LAW PROVISIONS

- 43.1 The Contractor agrees, as required by Labor Law Sections 220 and 220-d, as amended, that:
 - 43.1.1 No laborer, worker or mechanic in the employ of the Contractor or any Subcontractor employed by the Contractor in the performance of this Contract shall be permitted or required to work more than eight (8) hours in any one (1) Day or more than five (5) Days in any one week except in cases of extraordinary emergency, as defined in the Labor Law.
 - 43.1.2 The wages to be paid for a legal day's work to each laborer, worker or mechanic employed by the Contractor or any Subcontractor in the performance of this Contract shall not be less than the prevailing rate of wages as defined by Law.

- 43.1.3 Each laborer, worker or mechanic employed by the Contractor or any Subcontractor in the performance of this Contract shall be provided the prevailing supplements as defined by Law.
- 43.1.4 The minimum hourly rate of wages to be paid and the minimum supplement to be provided to the laborers, workmen or mechanics employed in the performance of this Contract, either by the Contractor or any Subcontractor, shall not be less than that which shall be designated by the Commissioner of Labor of the State of New York.
- 43.1.5 The Contractor and any Subcontractor shall pay all employees engaged in the performance of this Contract in full, less legally required deductions, in accordance with Labor Law Section 220.3. All such payments shall be made in cash, except payment may be made by check to the extent permitted by Law.

43.2 The Contractor agrees that as required by Labor Law Section 220-e, in case of underpayment of wages or supplements to any worker engaged in the performance of this Contract by the Contractor or any Subcontractor, the City may withhold from the Contractor out of payments due any amount sufficient to pay such worker the differences between the wages and supplements required to be paid by the Labor Law and wages and supplements actually paid such worker for the total number of hours worked plus interest as provided in the Labor Law, and that the City may disburse such amount so withheld by the City for and on account of the Contractor to the employees to whom such amount is due. The Contractor further agrees that the amount to be withheld pursuant to this paragraph may be in addition to any other amounts permitted to be retained by the City.

43.3 Prevailing Wage Enforcement. The Contractor agrees to pay for the cost of any investigation conducted by or on behalf of the City which discovers a failure to pay prevailing wages by the Contractor or its Subcontractor(s). The Contractor also agrees, that should it fail or refuse to pay for any such investigation, the City is hereby authorized to deduct from the Contractor's account an amount equal to the cost of such investigation.

43.4 Daily Sign-Out Log Requirements. Each day of the Contract Work, the Contractor and its Subcontractors shall complete a daily sign-out log acceptable to the City for all their hourly employees performing work on the Project. In addition, the Contractor and its Subcontractors shall insure that all employees listed on the daily log verify the information on the log applicable to them by signing next to their name. The Contractor and its Subcontractors shall deliver the daily sign-out log originals to the Resident Engineer or his representative at a frequency acceptable to the Resident Engineer. However, the Contractor's and its Subcontractors' log submissions must be current before the City will process the Contractor's requisition for payment for any particular period.

43.5 <u>Payroll Reports</u>. The Contractor and its Subcontractor(s) shall maintain on the Site during the performance of the Work the original payrolls or transcripts thereof which the Contractor and its Subcontractor(s) are required to maintain and shall submit such original payrolls or transcripts, subscribed and affirmed by it as true, within thirty (30) Days after issuance of its first payroll, and every thirty (30) Days thereafter, pursuant to Labor Law Section 220(3-a)(a)(iii). The Contractor and Subcontractor(s) shall submit such original payrolls or transcripts along with each and every payment requisition. If payment requisitions are not submitted at least once a month, the Contractor and its Subcontractor(s) shall submit original payrolls and transcripts both along with its payment requisitions and independently of its payment

requisitions. The Contractor shall maintain payrolls or transcripts thereof for six (6) years from the date of completion of the Work on this Contract

43.6 <u>Dust Hazards</u>. If during the performance of the Work a harmful dust hazard is created for the elimination of which appliances or methods have been approved by the Industrial Board of Appeals of the State of New York, such appliances and methods shall be installed, maintained and effectively operated by the Contractor in compliance with Labor Law Section 222-a. If Labor Law Section 222-a is not complied with, the City may void this Contract in which event the City shall have the same rights and remedies as it would have in the case of termination under this Contract in addition to any other rights and remedies of the City.

ARTICLE 44. NON-DISCRIMINATION REOUIREMENTS

44.1 In accordance with Chapter 31 of the City Code and Section 220-e of the Labor Law, as amended, Contractor agrees that neither it nor its Subcontractors shall, by reason of race, creed, color, disability, sex, or national origin: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the Work; or (b) discriminate against or intimidate any employee hired for the performance of Work under this Contract. The Contractor will permit the City to have access to all relevant books, records and accounts for the purposes of investigation to ascertain compliance with such requirements.

44.2 The Contractor understands that in the event of its noncompliance with the nondiscrimination clauses of this Contract or with any such requirements, such noncompliance shall constitute a material breach of this Contract. The Contractor further understands that, as provided in Section 220-e of the Labor Law, as amended, there may be deducted from the amount payable to it by the City under this Contract a penalty of fifty dollars (\$50.00) for each person for each Day during which said person was discriminated against or intimidated by reason of race, creed, color, disability, sex, or national origin in violation of the provisions of this contract. The City may impose any or all of the following sanctions: (a) disapproval of the Contractor; (b) suspension or termination of this Contract; (c) declaring the Contractor in default; or (d) adoption and adherence to an employment program.

44.3 The Contractor understands that, as provided in Section 220-e of the Labor Law, as amended, this Contract may be cancelled or terminated by the City, and all moneys due or to become due hereunder may be forfeited, for a second or any subsequent violation of the terms and conditions of this Contract with regard to discrimination on the basis of race, creed, color, disability, sex or national origin. The City may declare any contractor who has repeatedly failed to comply with Section 220-e of the Labor Law non-responsible.

CHAPTER X. CONTRACTOR'S DEFAULT; TERMINATION

ARTICLE 45. COMMISSIONER'S RIGHT TO DECLARE CONTRACTOR IN DEFAULT

45.1 In addition to those instances specifically referred to in other Articles herein, the Commissioner shall have the right to declare the Contractor in default of this Contract if:

45.1.1 The Contractor becomes insolvent; or

- 45.1.2 The Contractor makes an assignment for the benefit of creditors pursuant to statutes of the State of New York; or
- 45.1.3 A voluntary or involuntary petition in bankruptcy is filed by or against the Contractor; or
- 45.1.4 The Contractor fails to commence Work when notified to do so by the City; or
- 45.1.5 The Contractor abandons the Work; or
- 45.1.6 The Contractor refuses to proceed with the Work when and as directed by the City;
- 45.1.7 The Contractor, without just cause, reduces its work force to a number which, if maintained, would be insufficient, in the opinion of the City to complete the Work in accordance with the progress schedule, and fails or refuses to increase sufficiently the work force when ordered to do so by the City; or
- 45.1.8 The Contractor sublets, assigns, transfers, converts or otherwise disposes of this Contract other than as herein specified; or
- 45.1.9 The Contractor fails to secure and maintain all required insurance and bonds; or
- 45.1.10 A receiver is appointed to take charge of the Contractor's property or affairs; or
- 45.1.11 The City is of the opinion that the Contractor is or has been unnecessarily or unreasonably or willfully delaying the performance and completion of the Work, or the award of necessary subcontracts, or the placing of necessary material and equipment orders; or
- 45.1.12 The City is of the opinion that the Contractor is or has been willfully or in bad faith violating any of the provisions of this Contract; or
- 45.1.13 The City is of the opinion that the Work cannot be completed within the time herein provided or within the time to which such completion may have been extended; provided, however, that the impossibility of timely completion is, in the City's opinion, attributable to conditions within the Contractor's control; or
- 45.1.14 The Work is not completed within the time herein provided or within the time to which the Contractor may be entitled to have such completion extended; or
- 45.1.15 Any statement or representation of the Contractor in the Contract or in any document submitted by the Contractor with respect to the Work, the Project, or the Contract (or for purposes of securing the Contract) was untrue or incorrect when made; or
- 45.1.16 The Contractor or any of its officers, directors, partners, shareholders, principals, or other persons substantially involved in its activities, commits any acts subjecting them to disbarment in New York State.
- 45.1.17 Before declaring the Contractor in default, the Commissioner shall give the Contractor an opportunity to be heard, upon not less than two (2) Days' notice, at which hearing the Contractor may have a stenographer present; provided, however, that a copy of the stenographer's notes and transcript shall be furnished to the City.

45.2 The right to declare the Contractor in default for any of the above specified grounds shall be exercised by sending the Contractor a notice, signed by the Commissioner, setting forth the ground(s) upon which such default is declared ("Notice of Default").

45.3 The Commissioner's determination that the Contractor is in default shall be conclusive, final, and binding and such a finding shall preclude the Contractor from commencing a plenary action for any damages relating to the Contract. If the Contractor protests the determination of the Commissioner, the

Contractor may commence an action in a court of competent jurisdiction of the state of New York under Article 78 of the New York Civil Practice Law and Rules.

ARTICLE 46. OUITTING THE SITE

46.1 Upon receipt of such Notice of Default, the Contractor shall immediately discontinue all further operations under this Contract and shall immediately quit the Site, leaving untouched all plant, materials, equipment, tools, and supplies then on the Site.

ARTICLE 47. TERMINATION BY THE CITY

47.1 In addition to the right to terminate in the event of a default under Article 45 or any other Article herein, the City may, at any time, terminate this Contract for convenience of the City by written notice to the Contractor an in such event the Contractor shall:

- 47.1.1 Stop Work on the date specified in the notice; and
- 47.1.2 Take such action as may be necessary for the protection and preservation of the City's materials and property; and
- 47.1.3 Cancel all cancellable orders for material and equipment; and
- 47.1.4 Assign to the City and deliver to the Site or another location designated by the Commissioner, any non-cancellable orders for material and equipment that is not capable of use except in the performance of this Contract; and Take no action which will increase the amounts payable by the City under this Contract.
- 47.2 On all lump sum contracts, the City will pay the Contractor:
 - 47.2.1 Its direct cost as hereinafter defined or the fair and reasonable value, whichever is less, for:(a) the portion of the Work completed up to the time of termination; and (b) non-cancelable material and equipment that is not capable of use except in the performance of this Contract and has been specifically fabricated for the sole purpose of this Contract but not incorporated in the Work; and
 - 47.2.2 Five percent (5%) of the direct cost as hereinafter defined; and
 - 47.2.3 In addition to the foregoing, the Contractor shall be paid five percent (5%) of the difference between the lump sum Contract price and the total of all payments made prior to the notice of termination plus all payments allowed pursuant to Subsections 47.2.1 and 47.2.2 of this Article.
- 47.3 On all unit price Contracts, the City will pay the Contractor:
 - 47.3.1 For all completed units, the unit price stated in the Contract; and
 - 47.3.2 For uncompleted units, payment will be made pursuant to Subsection 47.2.1 and 47.2.2 above.
- 47.4 Direct costs as used in this Article shall mean:

- 47.4.1 The actual purchase price of material and equipment plus necessary and reasonable delivery costs; and
- 47.4.2 Actual cost of labor involved in construction and installation at the Site; and
- 47.4.3 Actual cost of necessary bonds and insurance purchased pursuant to the requirements of this Contract less any amounts that have been or should be refunded by the Contractor's sureties or insurance carriers.
- 47.4.4 Direct costs shall not include overhead.
- 47.5 In no event shall any payments under this Article exceed the Contract price for such items.
 - 47.5.1 All payments pursuant to this Article shall be in the nature of liquidated damages and shall be accepted by the Contractor in full satisfaction of all claims against the City arising out of the termination.
 - 47.5.2 The City may deduct or set off against any sums due and payable pursuant to this Article, any claims it may have against the Contractor.
- 47.6 All payments pursuant to this Article are subject to audit.

ARTICLE 48. COMPLETION OF THE WORK

48.1 The City, after declaring the Contractor in default, may have the Work completed by such means and in such manner, by contract with or without public letting, or otherwise, as he deems advisable, utilizing for such purpose the Contractor's and its Subcontractors' plant, materials, equipment, tools, and supplies remaining on the Site.

48.2 After such completion, the City shall make a certificate stating the expense incurred in such completion, which shall include the cost of re-letting and the total amount of liquidated damages (at the rate provided for in Schedule to this General Agreement) from the date when the Work should have been completed by the Contractor in accordance with the terms hereof to the date of actual completion of the Work. Such certificate shall be binding and conclusive upon the Contractor, its sureties, and any person claiming under the Contract, as to the amount thereof.

48.3 The expense of such completion, including all related and incidental costs, and any liquidated damages shall be charged against and deducted out of such monies earned by the Contractor. The balance of such monies, if any, subject to other provisions of this Contract, shall be paid to the Contractor upon demand without interest upon such completion. Should the expense of such completion exceed the total sum which would have been payable under the Contract if it had been completed by the Contractor, any excess shall be paid by the Contractor to the City upon demand.

ARTICLE 49. PARTIAL DEFAULT

49.1 In case the Commissioner shall declare the Contractor in default as to a part of the Work only, the Contractor shall discontinue such part, shall continue performing the remainder of the Work in strict conformity with the terms of this Contract, and shall in no way hinder or interfere with any Other Contractor(s) or persons whom the Commissioner may engage to complete the Work as to which the Contractor was declared in default.

49.2 The provisions of this Chapter relating to declaring the Contractor in default as to the entire Work shall be equally applicable to a declaration of partial default, except that the City shall be entitled to utilize for completion of the part of the Work as to which the Contractor was declared in default only such plant, materials, equipment, tools, and supplies as had been previously used by the Contractor on such part.

ARTICLE 50. PERFORMANCE OF UNCOMPLETED WORK

50.1 In completing the whole or any part of the Work under the provisions of this Chapter X, the City may depart from or change or vary the terms and provisions of this Contract, provided, however, that such departure, change or variation is made for the purpose of reducing the time or expense of such completion. Such departure, change or variation, even to the extent of accepting a lesser or different performance, shall not affect the conclusiveness of the City's certificate of the cost of completion referred to in Article 48, nor shall it constitute a defense to an action to recover the amount by which such certificate exceeds the amount which would have been payable to the Contractor hereunder but for its default.

ARTICLE 51. OTHER REMEDIES

51.1 In addition to the right to declare the Contractor in default pursuant to this Chapter X, the City shall have the absolute right to complete or cause to be completed in the same manner as described in Articles 48 and 50, any or all unsatisfactory or uncompleted punch list Work that remains after the completion date specified in the Approved Punch List. A written notice of the exercise of this right shall be sent to the Contractor who shall immediately quit the Site in accordance with the provisions of Article 46.

51.2 The expense of completion permitted under this Article shall be charged against and deducted out of monies which have been earned by the Contractor. The balance of such monies, if any, subject to the other provisions of this Contract shall be paid on demand to the Contractor without interest after such completion. Should the expense of such completion exceed the total sum which would have been payable under the Contract if it had been completed by the Contractor, any excess shall be paid by the Contractor to the City upon demand.

51.3 The previous provisions of this Chapter X shall be in addition to any and all other remedies available under Law or in equity. The exercise by the City of any remedy set forth herein shall not be deemed a waiver by the City of any other legal or equitable remedy contained in this Contract or provided under Law.

CHAPTER XI. MISCELLANEOUS PROVISIONS

ARTICLE 52. CITY'S RIGHT TO AUDIT AND INSPECT RECORDS

52.1 The Contractor shall maintain and keep, and require any Subcontractor to maintain and keep, for a period of not less than six (6) years after the date of final acceptance, all books, records, documents, agreements, payments, receipts, logs, ledgers, notes, and all other data of every kind and character without limitation related to the Work (hereinafter referred to as "records"). All such records shall be open to inspection and subject to audit and reproduction by the City or its authorized representative to the extent necessary to adequately permit evaluation and verification of the Contractor's compliance with: (a) the

Contract requirements; (b) the City's business ethics policies set forth herein, and (c) with the provisions for pricing change orders, invoices or claims submitted by the Contractor or any of his payees.

52.2 Such records subject to audit shall also include those records necessary to evaluate and verify direct and indirect costs, including overhead allocations, as they may apply to costs associated with this Contract, and any and all other records and sources of information that may in the City's judgment have any bearing on or pertain to any matters, rights, duties or obligations under or covered by any Contract Document. Where Contractor's records have been generated from computerized data, Contractor agrees to provide the City's representatives with copies of data files in suitable computer readable format.

52.3 The City or its designee shall be entitled to audit all of the Contractor's records for a period of six (6) years after final payment or longer if required by Law.

52.4 Contractor shall require all payees to comply with the provisions of this Article by insertion of the requirements hereof in a written contract between Contractor and payee. Requirements to include flow-down audit provisions in contracts with payees applies to, without limitation, Subcontractors, sub-subcontractors and Materialmen. When working under any type of contract, Contractor will cooperate fully and cause all payees to cooperate fully in furnishing or in making available to the City from time to time whenever requested in an expeditious manner any and all such information, materials, and data required by this Article of the Contract.

52.5 The City through its authorized representative(s) shall have access to the Contractor's facilities, shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of this Contract, shall have access to all necessary records, and shall be provided adequate and appropriate work space to conduct audits in compliance with this Article.

52.6 If an audit inspection or examination in accordance with this Article discloses overpricing or overcharges of any nature by the Contractor to the City in excess of one-half of one percent (.5%) of the total Contract billings, in addition to repayment or credit for the overcharges, the reasonable actual cost of the City's audit shall be fully reimbursed to the City by the Contractor. Any adjustments and/or payments which must be made as a result of any such audit or inspection of the Contractor's invoices and/or records shall be made no later than ninety (90) days from presentation of City's findings to Contractor.

ARTICLE 53. BUSINESS ETHICS

53.1 During the course of pursuing contracts with the City and while performing Work in accordance with this Contract, Contractor agrees to maintain business ethics standards aimed at avoiding any real or apparent impropriety or conflict of interest which could be construed to have an adverse impact on the dealings with the City. Contractor shall take reasonable actions to prevent any actions or conditions which could result in a conflict with the City's best interests. These obligations shall apply to the activities of the Contractor's employees, agents, representatives, Subcontractors, Materialmen, etc. in their dealings and relations with the City's current and former employees and their relatives. The Contactor and its employees, agents, representatives, Subcontractors to the City's representatives, employees or their relatives. Contractor agrees to notify the City within forty-eight (48) hours of any instance where the Contractor becomes aware of a failure to comply with the provisions of this Article.

City of New Rochelle April 2019

ARTICLE 54. INVESTIGATION CLAUSE

54.1 The Contractor agrees to cooperate fully and faithfully with any investigation, audit or inquiry conducted by the City or by an inspector general or other investigatory authority of a Federal, State, or governmental agency or authority that is empowered to compel the attendance of witnesses and to examine witnesses under oath.

54.2 If any person who has been advised that his/her statement, and any information from such statement, will not be used against him/her in any subsequent criminal proceeding refuses to testify before a grand jury or other governmental agency or authority empowered directly or by designation to compel the attendance of witnesses and to examine witnesses under oath concerning the award of or performance under any transaction, agreement, lease, permit, contract, or license entered into with the City, State, or any political subdivision or public authority of New York or other public corporation thereof, or the Port Authority of New York and New Jersey, or any local development corporation within the City, or any public benefit corporation organized under the laws of the State; or,

54.3 If any person refuses to testify for a reason other than the assertion of his/ her privilege against selfincrimination in any investigation, audit or inquiry by any agency empowered directly or by designation to compel the attendance of witnesses and to take testimony under oath, or by the City or by an inspector general or other investigatory authority of a State or City governmental agency that is a part of interest in, and is seeking testimony concerning the award of or performance under, any transaction, agreement, lease, permit, contract, or license entered into with the City, the State or other political subdivision or public authority or other public corporation thereof or any local development corporation within the City, or any public benefit corporation organized under the laws of the States, then:

- 54.3.1 The City may convene a hearing, upon not less than five (5) days' notice to the parties involved, to determine if any penalties should attach for the failure of a person to testify.
- 54.3.2 If any non-governmental party to such a hearing requests an adjournment, the Contractor agrees for itself and for those acting on its behalf that the City may, upon granting the adjournment, suspend any contract, lease, permit or license pending the final determination pursuant to the provisions below without the City incurring any penalty or damages.

54.4 The Contractor agrees for itself and for those acting on its behalf that the penalties which may be imposed by the City after such a hearing and a final determination by the City may include but shall not exceed:

- 54.4.1 The disqualification for a period not to exceed five (5) years from the date of such a determination of any person, or any entity of which such a person was a member at the time the testimony was sought, from obtaining any contract, lease, permit or license with or from the City; and/or
- 54.4.2 The cancellation or termination of any and all existing contracts, leases, permits or licenses that the refusal to testify concerns and that have not been assigned as permitted thereunder, nor the proceeds of which pledged, to an unaffiliated and unrelated institutional lender for fair value prior to the issuance of the notice scheduling the hearing, without the City's incurring any penalty or damages on account of such cancellation or termination; monies

lawfully due for goods delivered, work done, rentals, or fees accrued prior to the cancellation or termination shall be paid by the City.

54.5 The City shall consider and address in reaching its determination and in assessing an appropriate penalty the factors in subsections 54.5.1 and 54.5.2 below. The City may also consider, if relevant and appropriate, the criteria established in subsection 54.5.3 and 54.5.4 below in addition to any other information which may be relevant and appropriate:

- 54.5.1 The parties' good faith endeavors or lack thereof to cooperate fully and faithfully with any governmental investigation or audit, including but not limited to the discipline, discharge, or disassociation of any person failing to testify, the production of accurate and complete books and records, and the forthcoming testimony of all other members, agents, assignees or fiduciaries whose testimony is sought;
- 54.5.2 The relationship of the person who refused to testify to any entity that is a party to the hearing, including, but not limited to whether the person whose testimony is sought has an ownership interest in the entity and/or the degree of authority and responsibility the person has within the entity;
- 54.5.3 The nexus of the testimony sought to the subject entity and its contracts, leases, permits or licenses; and
- 54.5.4 The effect a penalty may have on an unaffiliated and unrelated party or entity that has a significant interest in any entity subject to penalties under paragraph D above, provided that the party or entity has given actual notice to the City upon the acquisition of the interest, or at the hearing called for in Article 54.5 above gives notice and proves that such interest was previously acquired. Under either circumstance the party or entity must present evidence at the hearing demonstrating the potential adverse impact a penalty will have on such person or entity.

54.6 Definitions.

- 54.6.1 The term "license" or "permit" as used herein shall be defined as a license, permit, franchise or concession not granted as a matter of right.
- 54.6.2 The term "person" as used herein shall be defined as any natural person doing business alone or associated with another person or entity as a partner, director, officer, principal or employee.
- 54.6.3 The term "entity" as used herein shall be defined as any firm, partnership, corporation, association, or person that receives monies, benefits, licenses, leases or permit from or through the City or otherwise transacts business with the City.
- 54.6.4 The term "member" as used herein shall be defined as any person associated with another person or entity as a partner, director, officer, owner, other principal or employee.

54.7 The City in its sole discretion may terminate this Contract upon not less than three (3) days' notice in the event the Contractor fails to promptly report in writing to the City's Police Commissioner any solicitation for money, goods, future employment or other benefit or thing of value by or on behalf of any employee of the City or any other person, firm, corporation or entity for any purpose which may be related to the procurement or obtaining of this Contract by the Contractor, or affecting the performance of this Contract. City of New Rochelle April 2019

ARTICLE 55. CONTRACTOR'S WARRANTIES

55.1 In consideration of, and to induce the award of this Contract to it, the Contractor represents and warrants:

- 55.1.1 That it is financially solvent, and sufficiently experienced and competent to perform the Work; and
- 55.1.2 That the facts stated in its bid and the information provided by it in the Information for Bidders is true and correct in all respects; and
- 55.1.3 That its principals have read and complied with all the requirements set forth in the Information for Bidders; and
- 55.1.4 That neither it nor any directors, officers, members, partners or employees, has any interest nor shall they acquire any interest, directly or indirectly which would or may conflict in any manner or degree with the performance or rendering of the Work herein provided; and
- 55.1.5 That the Contractor is familiar with all Federal, State, and Municipal laws, ordinances, orders, rules and regulations, which may in any way affect the Work; and
- 55.1.6 That the Contractor has carefully examined the Contract and the Site of the Work and that, from the Contractor's own investigations is satisfied as to the nature and location of the Work, the character quality and quantity of surface and subsurface materials and interferences likely to be encountered, the character or equipment and other facilities needed to perform the Work, the general and local conditions, and all other materials or items which may affect the Work; and
- 55.1.7 That the Contractor is an independent contractor and not an employee of the City. Unless the Contract specifically provides otherwise, the Means and Methods of Construction, control of the Site, and protection of Contractor's employees shall be entirely the Contractor's responsibility at all times.
- 55.1.8 That it has read and complied with all requirements set forth in the Contract.

ARTICLE 56. CONTRACTOR PERFORMANCE EVALUATION AND CRITERIA

56.1 The Resident Engineer will evaluate the Contractor's performance for compliance with Contract requirements. The Contractor will be evaluated by the Resident Engineer at least once during performance of the Contract ("interim evaluation"). In addition, the Contractor will receive a final evaluation near the completion of the Project. The Contractor's overall performance will be rated by the Resident Engineer as either outstanding, very good, satisfactory, marginal or unsatisfactory.

56.2. The Contractor's performance will be evaluated by the Resident Engineer on the basis of: (a) Quality of Work; (b) Management; (c) Scheduling, and (d) Adherence to safety, industrial and hygiene requirements.

56.3 A marginal or unsatisfactory evaluation in any of the elements of the criteria set forth in 56.2 of this Article may serve as a basis for a Contractor to receive an overall rating of marginal or unsatisfactory.

56.4 If the Contractor receives an overall evaluation of either marginal or unsatisfactory, he will be given an opportunity to cure any deficiencies or irregularities in the performance.

56.5 If the Contractor receives an overall interim evaluation of marginal, the Contractor may be suspended from bidding or subcontracting on future City projects for a period of thirty (30) to sixty (60) days. If the Contractor's interim evaluation is unsatisfactory, the Contractor may be suspended from bidding or subcontracting on future City projects for a period of (30) to ninety (90) days.

56.6 If the City determines that the Contractor has failed to provide a cure for the deficiencies or irregularities that resulted in either a marginal or an unsatisfactory interim evaluation, or if the Contractor on a subsequent interim evaluation is rated less than satisfactory, the Contractor may be disqualified from bidding or subcontracting for the remaining term of the Contract.

56.7 If the Contractor receives an overall marginal final evaluation, he may be disqualified from bidding or subcontracting on future City projects for one (1) year. If the Contractor that receives an unsatisfactory rating, he may be disqualified from bidding, contracting or subcontracting on City projects for a period of up to five (5) years.

56.8 If the Contractor is disqualified pursuant to a marginal or unsatisfactory evaluation, the Contractor may appeal the evaluation to the Commissioner.

ARTICLE 57. CLAIMS AND ACTIONS

57.1 Any claims against the City for damages for breach of Contract shall not be made or asserted in any action unless the Contractor has strictly complied with all requirements relating to the giving of notice and of information with respect to such claims as have been herein provided.

57.2 Nor shall any such action or proceeding be instituted or maintained on any such claims unless such action or proceeding is commenced within one (1) year after the date of submission of the final payment voucher pursuant to Article 37; except that an action or proceeding on a claim for monies deducted, retained or withheld under the provisions of this Contract or the Law must be commenced within one (1) year after the date of final payment hereunder or after such monies become due and payable hereunder, whichever is later, and further except that an action or proceeding on a claim based upon the City's exercise of the right to declare the Contractor in default must be commenced within six (6) months after the date the City declared the Contractor in default.

57.3 In the event any claim is made or any action brought in any way relating to the Contract, the Contractor shall diligently render to the City, without additional compensation, any and all assistance which the City may require of the Contractor.

ARTICLE 58. NO CLAIM AGAINST OFFICIALS, OFFICERS, AGENTS OR EMPLOYEES

58.1 No claim whatsoever shall be made by the Contractor against any official, officer, agent, or employee of the City for, or on account of, anything done or omitted to be done in connection with this Contract.

City of New Rochelle April 2019

ARTICLE 59. INFRINGEMENTS

59.1 The Contractor shall be solely responsible for and shall defend, indemnify, and hold the City harmless from any and all claims (even if the allegations of the lawsuit are without merit) and judgments for damages and from costs and expenses to which the City may be subject to or which it may suffer or incur allegedly arising out of or in connection with any infringement by the Contractor of any copyright, trade secrets, trademark or patent rights, or any other property or personal right of any third party by the Contractor and/or its Subcontractors in the performance or completion of the Work. Insofar as the facts or Law relating to any claim would preclude the City from being completely indemnified by the Contractor, the City shall be partially indemnified by the Contractor to the fullest extent permitted by Law.

ARTICLE 60. NOTICES

60.1 The Contractor designates the business address, fax number, and email address specified in its bid, as the place where all notices, directions or other communications to the Contractor may be delivered, or to which they may be mailed. Any notice, direction, or communication from either party to the other shall be in writing and shall be deemed to have been given when: (i) delivered personally upon the Contractor, or, if the Contractor is a corporation, upon any officer thereof; (ii) sent by certified mail, return receipt requested; (iii) delivered by overnight or same day courier service in a properly addressed envelope with confirmation; or (iv) sent by fax or email and acknowledged by the recipient.

60.1 The Contractor's notice address, email address, or fax number may be changed at any time by an instrument in writing, executed and acknowledged by the Contractor, and delivered to the Commissioner.

ARTICLE 61. SEVERABILITY

61.1 If any provision, or part thereof, of this Agreement is judicially declared invalid, void or unenforceable, each and every other provision, or part thereof, nevertheless shall continue in full force and effect, and the unenforceable provision shall be changed or interpreted so as best to accomplish the objectives and the intent of such provision within the limits of applicable Law.

ARTICLE 62. ANTITRUST ASSIGNMENT

62.1 The Contractor hereby assigns, sells and transfers to the City of New Rochelle all right, title and interest in and to any claims and causes of action arising under the antitrust laws of New York State or of the United States relating to the particular goods or services purchases or procured by the City under this Contract.

ARTICLE 63. CHOICE OF LAW

63.1 This Contract shall be construed and enforced in accordance with the laws of the State of New York without regard to conflict of law principles. All claims, actions, proceedings and lawsuits brought in connection with, arising out of, related to or seeking enforcement of this Agreement shall be brought in the State of New York, Westchester County.

ARTICLE 64. TAX EXEMPTION

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

64.2 The Contractor shall obtain any and all necessary certificates or other documentation from the appropriate governmental agency or agencies, and use said certificates or other documentation as required by Law.

ARTICLE 65. COMPLIANCE WITH LAWS

65.1 At all times during the Contractor's Work on the Project, the Contractor shall comply with all Federal, State and Municipal Laws applicable to this Contract and to the Work to be done hereunder, including but not limited to New Rochelle Noise Control Ordinance, and any regulations issued by the Commissioner or other governmental entity having jurisdiction. The Contractor shall also maintain in full force and effect, and shall require its Subcontractors to maintain, all required licenses, certificates, approvals and permits required for the performance of the Work. The Contractor and its officers, employees, agents and Subcontractors shall comply with all City personnel safety rules and all applicable conditions or requirements of any permit or authorization, order or directive issued by any court or governmental regulatory agency with jurisdiction over the Project. All provisions required by Law to be included herein shall be deemed incorporated herein.

65.2 Water Treatment, Storage, and Disposal Facilities and Transporters. In connection with the Work, the Contractor and any Subcontractor shall use only those waste treatment, storage, and disposal facilities and waste transporters that possess the requisite license, permit or other governmental approval necessary to treat, store, dispose, or transport the waste, materials or hazardous substances.

ARTICLE 66. MERGER CLAUSE

66.1 The written Contract herein, contains all of the terms and conditions agreed upon by the parties hereto, and no other agreement, oral or otherwise, regarding the subject matter of the Contract shall be deemed to exist or to bind any of the parties hereto, or to vary any of the terms contained herein.

ARTICLE 67. CONFLICTS: HEADINGS

67.1 It is understood and agreed by the parties that in the event of an inconsistency or conflict between any part or parts of the Contract Documents, the Resident Engineer shall determine what shall prevail.

67.2 The headings and captions used in the General Agreement are for reference purposes only and shall not have any effect on the interpretation of the Agreement.

SECTION D

EXECUTION OF CONTRACT

IN WITNESS WHEREOF, the parties have caused this General Agreement to be executed by their duly authorized representatives.

City of New Rochelle

By:

Charles B. Strome, III City Manager Date: _____

Name of Contractor

Date: _____

Approved as to Form

By:

Kathleen E. Gill, Esq. City of New Rochelle Corporation Counsel

By:

(Authorized Officer of the Firm or Corporation)

(Print Name and Title)

Where the Contractor is a Corporation, add:

Attest:

(Seal)

(Secretary of the Corporation)

Legal Name and Address of Contractor

ACKNOWLEDGEMENT OF THE CITY MANAGER

STATE OF NEW YORK)	
COUNTYOFWESTCHESTER)	
	SS.:	
CITY OF NEW ROCHELLE)	
On this	day of	, 20, before me personally
came		to me known, who being by me duly sworn, did
depose and say that he/she resid	des in the City of	f New Rochelle, N.Y., that he/she is the CITY
MANAGER OF THE CITY OF NE	W ROCHELLE, th	he corporation described in and which executed
the above instrument; that he/she	knows the seal of	of said corporation; that the seal affixed to said
instrument is such corporate seal;	that it was affixed	d by order of the Council of said corporation and
he/she signed his/her name there	eto by like order	of the Council of said corporation and he/she
signed his/her name thereto by like	order.	

ACKNOWLEDGEMENT IF THE CONTRACTOR IS AN INDIVIDUAL

STATE OF)	
)	
ss.: COUNTYOF)	
On this	day of	, 20, before me personally
came	, to	o me known and known to me to be the
person described in and v	who executed the foregoing co	ontract, and who acknowledged to me
the execution thereof for the	ne purpose therein mentioned.	

ACKNOWLEDGEMENT IF CONTRACTOR IS PARTNERSHIP

STATE OF)	
)	
ss.: COUNTYOF)	
On this	day of	, 20 _, before me personally
came	, t	o me known and known to me to be a
member of		, the firm described in and which
executed the foregoing cor	tract, and he/she acknowledg	ed to me that he/she subscribed the
name of said firm thereto ir	n behalf of said firm for the purp	oose therein mentioned.

ACKNOWLEDGEMENT IF CONTRACTOR IS A CORPORATION

STATE OF)				
ss.: COUNT`	YOF)				
On this		day of_		, 20 ,	before me persc	onally
appeared,			to me k	nown, who, being	by me duly swo	orn, did
depose	and	say;	that	he/she	resides	in
that he/she is	s the		of			
the corporation	on described ir	and which execut	ed the with	in instrument; that	he/she knows the	e seal
of said corpo	oration; that th	e seal affixed to sa	aid instrum	ent was such corp	oorate seal; that it	t was
so affixed b	y order of the	Board of Director	of said cor	poration, and that	he/she signed hi	is/her
name theret	to by like order.					

SECTION E

SAMPLE FORMS OF BONDS

SURETY BOND

(Name of Bonding Company)

(City)

KNOW ALL MEN BY THESE PRESENTS, THAT WE ______

(Name of Contractor)

hereinafter referred to as the Surety, are held and firmly bound unto the CITY OF NEW ROCHELLE, N.Y. in the sum (______) lawful money of the UNITED STATES OF AMERICA, to be paid to the CITY OF NEW ROCHELLE, N.Y., or to its certain attorneys, successors or assigns; for which payment well and truly to be made, we bind ourselves and our several and respective heirs, executors and administrators, successors, and assigns jointly and severally, firmly by these presents

Sealed with our seals. Dated this	day of	in the year
two thousand and	:	

WHEREAS, the above bounden Contractor, by an instrument in writing, signed by the Contractor, and bearing even date with these presents, has contracted with THE CITY OF NEW ROCHELLE, N.Y. to perform all the work and furnish all the materials and plants called for in the preceding contract for

NOW, THEREFORE, the conditions of the above obligations are such that if the said above bounden Contractor, his or its executive administrators, successors or assigns, shall well and truly, and in good, sufficient and workmanlike manner, perform the work mentioned in the aforesaid agreement, in accordance with the terms and provisions therein stipulated, and in each and every regard comply with the conditions and covenants therein contained then this obligation to be void, otherwise to remain in full force and virtue.

And the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or to the specifications accompanying the same shall in any wise affect its obligation on said bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

Attest

(Signature)

(Name)

(Title)

(Signature of Contractor)

Attest_

(Signature)

(Title)

(Signature)

(Name)

Surety bond to be approved, as to form and correctness, by the Corporation Counsel of the City of New Rochelle

Of Surety

(Qualifications of Surety Company and acknowledgements to be annexed hereto)

Spec No. 5423 1923 Building Renovations (Phase 1) – Flowers Park

ACKNOWLEDGMENT BY SURETY COMPANY

STATE OF)				
COUNTY OF) ss.:)				
On this	day of		20	, before	me
personally came		, to me know	wn, who be	ing by me	dully
sworn, did depose and say that he/s	she resides in				
that he/she is the	of the			-	_, the
Corporation described in and which	executed the within ir	strument that	he/she kno	own the s	eal of
said corporation; that the seal affixed	l to said instrument is s	such corporate	seal; that if	t was so a	affixed
by order of the Board of Directors of	said corporation; and	that he/she si	igned his/he	er name th	nereto
by like order; and that the liabilities of	of said company do no	t exceed its as	ssets as as	certained	in the
manner provided by the Laws of the	State of New York, a	nd the said			
	further said tha	t he/she	is acqu	uainted	with
	a	ind knows	him/her	to be	the
	_ of said company	, that the	signature	of the	said
SI	ubscribed to the within	instrument is i	in the genu	ine handw	vriting
of	the said				_and
was subscribed thereto by like order	of the Board of directo	ors, in the pres	ence of hin	n/her, the	said
	·				

ACKNOWLEDGEMENT BY PRINCIPAL UNLESS IT BE A CORPORATION

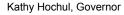
STATE OF		
COUNTY OF) ss.:)	
On this	day of	20, before me
personally came		to me known and known to me to be
the person described in and who	executed the foregoing ir	nstrument, and acknowledged that he/she
executed the same.		
		Notary Public
ACKNO'	WLEDGMENT BY PRINC	CIPAL, IF A CORPORATION
STATE OF)	
) ss.:	
COUNTY OF)	
On this	day of	20, before me
personally came		to me known, who, being by me
duly sworn, did depose and say	that he/she resides in	; that
he/she is the	of	the
corporation described in and wh	ich executed the within ir	nstrument; that he/she knows the seal of said
corporation; that the seal affixed	d to said instrument was	s such corporate seal; that it was so affixed
by order of the Board of Director	rs of said corporation, an	d that he/she signed his/her name thereto by
like order.		

SECTION F

PREVAILING WAGE RATES

Prevailing wage rates for this Contract, as provided by the New York State Department of Labor, are included in this section.

Roberta Reardon, Commissioner





CITY OF NEW ROCHELLE SANDI MURRAY, Purchasing Specialist 515 NORTH AVE NEW ROCHELLE NY 10801

Schedule Year Date Requested 01/12/2022 PRC#

2021 through 2022 2022000309

Flowers Field at City Park Location Proiect ID# Spec 5423 Project Type Renovate existing building including general construction, plumbing, electrical, Mechanical

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 2021 through June 2022. 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, contemperaneous, 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 220e(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.

Roberta Reardon, Commissioner



Kathy Hochul, Governor

CITY OF NEW ROCHELLE

SANDI MURRAY, Purchasing Specialist 515 NORTH AVE NEW ROCHELLE NY 10801

Schedule Year Date Requested PRC#

2021 through 2022 01/12/2022 2022000309

LocationFlowers Field at City ParkProject ID#Spec 5423Project TypeRenovate existing building including general construction, plumbing, electrical, Mechanical

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.

	State:	Zip:
<u>\$</u>		Contract Type:
,	,	[] (01) General Construction
/		[] (02) Heating/Ventilation
		[] (03) Electrical
1 1	1	[] (04) Plumbing
		S

Contractor Information All information must be supplied

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, www.labor.ny.gov. https://labor.ny.gov/formsdocs/ui/IA999.pdf

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: <u>dol.misclassified@labor.ny.gov</u>.

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 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 <u>dol.misclassified@labor.ny.gov</u>. All complaints of fraud and violations are taken seriously. You can remain anonymous.

Employer Name: IA 999 (09/16)

New York State Department of Labor Bureau of Public Work

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: <u>www.labor.ny.gov</u>

If you feel that you have not received proper wages or benefits, please call our nearest office.*

Albany Binghamton Buffalo Garden City New York City Newburgh

(518) 457-2744 (607) 721-8005 (716) 847-7159 (516) 228-3915 (212) 932-2419 (845) 568-5156 Patchogue Rochester Syracuse Utica White Plains

(631) 687-4882 (585) 258-4505 (315) 428-4056 (315) 793-2314 (914) 997-9507

 For New York City government agency construction projects, please contact the Office of the NYC Comptroller at (212) 669-4443, or <u>www.comptroller.nyc.gov</u> – click on Bureau of Labor Law.

Contractor Name:

Project Location:

Requirements for OSHA 10 Compliance

Article 8 §220-h requires that when the advertised specifications, for every contract for public work, is \$250,000.00 or more the contract must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course. The clear intent of this provision is to require that all employees of public work contractors, required to be paid prevailing rates, receive such training "prior to the performing any work on the project."

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- Copies of bona fide course completion card (Note: Completion cards do not have an expiration date.)
- Training roster, attendance record of other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

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

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

WICKS

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

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

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

The Commissioner of Labor shall have the power to enforce separate specification requirement s on projects, and may issue stopbid 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 countyby-county basis.

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

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

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

Payrolls and Payroll Records

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

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

Paid Holidays

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

Overtime

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

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

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

Supplemental Benefits

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

Effective Dates

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

Apprentice Training Ratios

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

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

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

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

Westchester County General Construction

Boilermaker

JOB DESCRIPTION Boilermaker

ENTIRE COUNTIES

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

Per Hour:	07/01/2021
Boilermaker Repairs & Renovations	\$ 63.38 63.38
SUPPLEMENTAL BENEFITS Per Hour:	07/01/2021
Boilermaker Repair \$ Renovations	32% of hourly Wage Paid + \$ 25.38

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

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

OVERTIME PAY

See (D, O) on OVERTIME PAGE Repairs & Renovation see (B,E,Q)

HOLIDAY

Paid: See (8, 16, 23, 24) on HOLIDAY PAGE Overtime: See (5, 6, 8, 11, 12, 15, 16, 22, 23, 24, 25) on HOLIDAY PAGE NOTE: *Employee must work in pay week to receive Holiday Pay. **Employee gets 4 times the hourly wage rate for working Labor Day.

REGISTERED APPRENTICES

Wage per hour:

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

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

Supplemental Benefits Per Hour:

Supplemental Denents r er ribur.	
	07/01/2021
Apprentice(s)	32% of Hourly
	Wage Paid Plus
	Amount Below
1st Term	\$ 19.41
2nd Term	20.26
3rd Term	21.11
4th Term	21.96
5th Term	22.82
6th Term	23.68
7th Term	24.52

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

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES

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

Per hour: 07/01/2021

Piledriver	\$ 56.93
Dockbuilder	\$ 56.93

01/01/2022

DISTRICT 4

4-5

01/01/2022

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker \$ 53.33

OVERTIME PAY

See (B, E2, O)		IME PAGE		
HOLIDAY Paid:		See (1) on HC	LIDAY PAGE	
Paid: for 1st & 2 Apprentices	nd yr.	See (5,6,11,1;	3,25)	
Overtime: REGISTERED Wages per hour (1)year terms:		See (5,6,11,13 ITICES	3,25) on HOLI	DAY PAGE.
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1st \$23.37	2nd \$28.97	3rd \$37.35	4th \$45.74

Supplemental benefits per hour:

All Terms: \$ 35.33

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2021

Carpet/Resilient Floor Coverer

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

SUPPLEMENTAL BENEFITS

Per hour:

\$ 46.97

\$ 54.75

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY Paid:

See (18, 19) on HOLIDAY PAGE.

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

REGISTERED APPRENTICES

Wage per hour - (1) year terr	ns:			
	1st	2nd	3rd	4th
	\$ 24.55	\$ 27.55	\$ 31.80	\$ 39.68
Supplemental benefits per ho	our:			
	1st	2nd	3rd	4th
	\$ 16.19	\$ 17.69	\$ 21.29	\$ 23.29

01/01/2022

8-1556 Db

01/01/2022

ENTIRE COUNTIES

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

WAGES Per Hour:

07/01/2021

Marine Construction:

Marine Diver	\$ 71.80
Marine Tender	51.34

SUPPLEMENTAL BENEFITS

Per Hour:

Journeyworker \$ 53.33

OVERTIME PAY

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

HOLIDAY

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

\$ 35.33

REGISTERED APPRENTICES

Wages per hour: One (1) year terms.

1st year	\$ 23.37
2nd year	28.97
3rd year	37.35
4th year	45.74

Supplemental Benefits Per Hour:

Per Hour:

All terms

8-1456MC

01/01/2022

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES

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

WAGES

Per hour: 07/01/2021

Building

Millwright \$ 57.00

SUPPLEMENTAL BENEFITS

Per hour:

Millwright \$ 54.60

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid:

See (18,19) on HOLIDAY PAGE.

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

REGISTERED APPRENTICES

Wages per hour: One (1) year terms:

1st.	2nd.	3rd.	4th.
\$30.74	\$36.19	\$41.64	\$52.54

3rd.

Supplemental benefits per hour: One (1) year terms: 1st. 2nd.

4th.

\$35.03 \$38.73 \$43.08 \$49.84

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES

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

WAGES

Per Hour:

07/01/2021

Timberman

07/01/2021

\$ 52.05

SUPPLEMENTAL BENEFITS

Per Hour:

07/01/2021

\$ 52.78

OVERTIME PAY

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

HULIDAT	
Paid:	See (1) on HOLIDAY PAGE.

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

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

REGISTERED APPRENTICES

Wages per hour: One (1) year term

ne (1) year terms:				
	1st	2nd	3rd	4th
	\$21.42	\$26.53	\$34.18	\$41.84

Supplemental benefits per hour: All terms \$ 35.06

Carpenter

JOB DESCRIPTION Carpenter

ENTIRE COUNTIES

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

PARTIAL COUNTIES

Orange: South of but including the following, Waterloo Mills, Slate Hill, New Hampton, Goshen, Blooming Grove, Mountainville, east to the Hudson River.

Putnam: South of but including the following, Cold Spring, TompkinsCorner, Mahopac, Croton Falls, east to Connecticut border. Suffolk: West of Port Jefferson and Patchogue Road to Route 112 to the Atlantic Ocean.

Per hour:	07/01/2021	10/18/2021
Core Drilling: Driller	\$ 41.74	\$ 42.27
Driller Helper	32.92	33.47

Note: Hazardous Waste Pay Differential:

For Level C, an additional 10% above wage rate per hour

For Level B, an additional 10% above wage rate per hour

For Level A, an additional 10% above wage rate per hour

Note: When required to work on water: an additional \$ 0.50 per hour.

SUPPLEMENTAL BENEFITS

Per hour:

DISTRICT 8

DISTRICT 8

8-1556 Tm 01/01/2022

01/01/2022

8-740.1

DISTRICT 11

OVERTIME PAY

OVERTIME:	See (B,E,K*,P,R**) on OVERTIME PAGE.
HOLIDAY	
Paid:	See (5,6) on HOLIDAY PAGE.
Overtime:	* See (5,6) on HOLIDAY PAGE.
	** See (8,10,11,13) on HOLIDAY PAGE.

Carpenter - Building / Heavy&Highway

8-1536-CoreDriller

01/01/2022

JOB DESCRIPTION Carpenter - Building / Heavy&Highway ENTIRE COUNTIES

Putnam, Rockland, Westchester

WAGES

WAGES:(per hour)

	07/01/2021
BUILDING/HEAVY & HIGHWAY/TUNNEL:	
Carpenter	
Base Wage	\$ 37.69
	+ \$7.63*

*For all hours paid straight or premium.

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

NOTE:Carpenters employed in the removal or abatement of asbestos or any toxic or hazardous material or required to work near asbestos or any toxic or hazardous material and required to wear protective equipment shall receive two (2) hours extra pay per day, plus applicable supplemental benefits.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker

\$ 31.91

OVERTIME PAY

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

HEAVY&HIGHWAY/TUNNEL: See (B, E, P, *R, **T, X) on OVERTIME PAGE. *R applies to Heavy&Highway/Tunnel Overtime Holiday Code 25 with benefits at straight time rate. **T applies to Heavy&Highway/Tunnel Overtime Holiday Codes 5 & 6 with benefits at straight time rate.

HOLIDAY

BUILDING:Paid:See (1) on HOLIDAY PAGE.Overtime:See (5, 6, 16, 25) on HOLIDAY PAGE.Holidays that fall on Sunday will be observed Monday.

HEAVY&HIGHWAY/TUNNEL:

Paid:See (5, 6, 25) on HOLIDAY PAGE including benefits.Overtime:See (5, 6, 25) on HOLIDAY PAGE.

REGISTERED APPRENTICES

1 year terms at the following wage rates:

Indentured b	efore July 1 20	16		
1st	2nd	3rd	4th	
\$ 18.85	\$ 22.61	\$ 26.38	\$ 30.15	
+3.57*	+3.57*	+3.57*	+3.57*	
Indentured a	fter July 1 2016	6		
1st	2nd	3rd	4th	5th
\$ 18.85	\$ 22.61	\$ 24.50	\$ 26.38	\$ 30.15
+3.57*	+3.57*	+3.57*	+3.57*	+3.57*

*For all hours paid straight or premium

SUPPLEMENTAL BENEFITS per hour:

Last Published on Jan 01 20	22	PRC Number 2022000309 We	stchester County
All terms	\$ 16.28		11-279.1B/HH
Electrician			01/01/2022
JOB DESCRIPTION Ele	ectrician	DISTRICT 9	
ENTIRE COUNTIES Bronx, Kings, New York, C	Queens, Richmond, Westchester		
WAGES Per hour:	07/01/2021		
Service Technician	\$ 34.40		
Service and Maintenance	on Alarm and Security Systems.		
	or replacement of defective (or damaged) equipment on, but n ms and associated devices. (Whether by service contract of T EFITS		CCTV - Card
Journeyworker:	\$ 19.32		
OVERTIME PAY See (B, E, Q) on OVERTIM	ME PAGE		
HOLIDAY Paid:	See (5, 6, 11, 15, 16, 17, 25, 26) on HOLIDAY PAGE		
Overtime:	See (5, 6, 11, 15, 16, 17, 25, 26) on HOLIDAY PAGE		9-3H
Electrician			01/01/2022
JOB DESCRIPTION Ele ENTIRE COUNTIES Westchester	ectrician	DISTRICT 8	
WAGES Per hour:	07/01/2021	04/21/2022	
*Electrician/A-Technician Teledata	\$ 53.75 53.75	\$ 53.75 53.75	

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

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

Page 25

SUPPLEMENTAL BENEFITS

Per hour: Journeyworker	\$ 52.73		\$ 54.39
OVERTIME PAY See (A, G, *J, P) on OVER *NOTE: Emergency work	RTIME PAGE on Sunday and Holidays is at the time and one-ha	alf overtime rate.	
HOLIDAY Paid: Overtime:	See (1) on HOLIDAY PAGE See (5, 6, 8, 11, 15, 16, 25) on HOLIDAY PAGE	:	
REGISTERED APPREN	ITICES		
(1) year terms at the follow	ving wage rates:		
	07/01/2021	01/01/2022	04/21/2022
1st term	\$ 14.00	\$ 15.00	\$ 15.00
2nd term	16.00	16.00	16.00
3rd term	18.00	18.00	18.00
4th term	20.00	20.00	20.00
MIJ 1-12 months	24.00	24.00	25.00
MIJ 13-18 months	27.50	27.50	28.50
3rd term 4th term MIJ 1-12 months	18.00 20.00 24.00	18.00 20.00 24.00	18.00 20.00 25.00

Supplemental Benefits	per hour:
-----------------------	-----------

	07/01/2021	04/21/2022	
1st term	\$ 10.15	\$ 10.82	
2nd term	13.05	13.05	
3rd term	14.39	14.39	
4th term	15.72	15.72	
MIJ 1-12 months	13.39	13.49	
MIJ 13-18 months	13.76	13.87	
			8-3/W

Electrician

JOB DESCRIPTION Electrician

ENTIRE COUNTIES Westchester

WAGES

	07/01/2021	04/21/2022
Electrician -M	\$ 27.50	\$28.50
H - Telephone	\$ 27.50	\$28.50

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

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

SUPPLEMENTAL BENEFITS

	07/01/2021	04/21/2022
Electrician &		
H - Telephone	\$ 13.76	\$13.87

OVERTIME PAY

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

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

HOLIDAY

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

Elevator Constructor

JOB DESCRIPTION Elevator Constructor

ENTIRE COUNTIES

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

PARTIAL COUNTIES

Rockland: Entire County except for the Township of Stony Point

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

WA	GE	S
Dor	hai	

Per nour:	07/01/2021	03/17/2022
Elevator Constructor	\$ 72.29	\$ 75.14
Modernization & Service/Repair	56.77	59.09

Four(4), ten(10) hour days may be worked at straight time during a week, Monday 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 will be liable for overtime payments for work over the allotted hours per day listed.

SUPPLEMENTAL BENEFITS

Per Hour:

8-3m

01/01/2022

01/01/2022

DISTRICT 4

Elevator Constructor	\$ 41.92	\$ 43.914
Modernization & Service/Repairs	41.082	42.787

OVERTIME PAY

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

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

HOLIDAY

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

REGISTERED APPRENTICES

WAGES PER HOUR:

*Note:1st, 2nd, 3rd Terms are based on Average wage of Constructor & Modernization. Terms 4 thru 9 Based on Journeymans wage of classification Working in.

6 MONTH TERMS:

1st Term* 50%	2nd & 3rd Term* 50%	4th & 5th Term 55%	6th & 7th Term 65%	8th & 9th Term 75%
SUPPLEMENTAL BENEF	TITS			
Elevator Constructor				
1st Term	\$ 0.00	\$ 0.00		
2nd & 3rd Term	34.05	34.772		
4th & 5th Term	34.91	35.606		
6th & 7th Term	36.30	37.052		
8th & 9th Term	37.70	38.497		
Modernization &				
Service/Repair				
1st Term	\$ 0.00	\$ 0.00		
2nd & 3rd Term	34.00	34.672		
4th & 5th Term	34.50	35.195		
6th & 7th Term	35.83	36.571		
8th & 9th Term	37.15	37.938		

Elevator Constructor

JOB DESCRIPTION Elevator Constructor

ENTIRE COUNTIES

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

PARTIAL COUNTIES

Delaware: Towns of Andes, Bovina, Colchester, Davenport, Delhi, Harpersfield, Hemdon, Kortright, Meredith, Middletown, Roxbury, Hancock & Stamford Rockland: Only the Township of Stony Point.

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

WAGES Per Hour	07/01/2021	01/01/2022
Mechanic	\$ 62.51	\$ 64.63
Helper	70% of Mechanic Wage Rate	70% of Mechanic Wage Rate

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

***Four (4), ten (10) hour days are not permitted for Contract Work/Repair Work

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

DISTRICT 1

01/01/2022

	ge Rates for 0 d on Jan 01 20	7/01/2021 - 06/)22	/30/2022			Published by the New York State Department of Labor PRC Number 2022000309 Westchester County
Per hour		07/01/202	1		01/01/2022	
Journeypers	on/Helper	\$ 35.825	*		\$ 36.885*	
(*)Plus 6% o	f regular hour	ly if less than	5 years of s	ervice. Plus 8% of	regular hourly rat	e if more than 5 years of service.
OVERTIME See (D, O) o	PAY n OVERTIME	PAGE				
HOLIDAY Paid: Overtime: Note: When Monday.	a paid holida	See (5, 6, 1	5, 16) on H0	DLIDAY PAGE DLIDAY PAGE I be observed on	Friday. When a pa	id holiday falls on Sunday, it shall be observed on
		NTICES				
Wages per h 0-6 mo* 50 %	6-12 mo 55 %	2nd yr 65 %	3rd yr 70 %	4th yr 80 %		
(*)Plus 6% o	f the hourly ra	ate, no additio	nal supplem	ental benefits.		
Supplementa	al Benefits pe	r hour worked	:			
Same as Jou	Irneyperson/ł	Helper				1-138
Glazier						01/01/2022
JOB DESC	RIPTION G	lazier				DISTRICT 8
ENTIRE CO Bronx, Dutch		lassau, New Y	/ork, Orange	e, Putnam, Queen	s, Richmond, Roc	kland, Suffolk, Sullivan, Ulster, Westchester

WAGES Per hour: 7/01/2021 11/01/2021 Glazier \$ 58.60 \$ 59.10 60.55 *Scaffolding 59.55 29.60 **Glass Tinting &** 29.60 Window Film **Repair & Maintenance 29.60 29.60

*Scaffolding includes swing scaffold, mechanical equipment, scissor jacks, man lifts, booms & buckets 24' or more, but not pipe scaffolding.

**Repair & Maintenance- All repair & maintenance work on a particular building, whenever performed, where the total cumulative contract value is under \$148,837. All Glass tinting, window film, regardless of material or intended use, and all affixing of decals to windows or glass.

SUPPLEMENTAL BENEFITS Per hour:	7/01/2021	11/01/2021
Journeyworker Glass tinting & Window Film	\$ 36.04 21.19	\$ 36.79 21.19
Repair & Maintenance	21.19	21.19

OVERTIME PAY

See (B,H,V) on OVERTIME PAGE.

For 'Repair & Maintenance' and 'Glass Tinting & Window Film' see (B, B2, I, S) on overtime page.

7/01/2021

HOLIDAY

Paid:See (1) on HOLIDAY PAGEOvertime:See (1, 6, 16, 25) on HOLIDAY PAGEFor 'Repair & Maintenance' and 'Glass Tinting & Window Film' OnlyPaid: See(5, 6, 16, 25)Overtime: See(5, 6, 16, 25)

REGISTERED APPRENTICES

Wage per hour: (1) year terms at the following wage rates:

11/01/2021

JOB DESCRIPTION Insulator	r - Heat & Frost		DISTRICT 8	
Insulator - Heat & Frost				01/01/2022
				8-1087 (DC9 NYC)
4th term	30.91	31.52		
3rd term	26.09	26.57		
2nd term	23.57	23.99		
1st term	\$ 16.58	\$ 16.80		
(Per hour)				
Supplemental Benefits:				
4th term	46.62	47.01		
3rd term	34.67	34.94		
2nd term	28.66	28.87		
1st term	\$ 20.72	\$ 21.00		

Dutchess, Orange, Putnam, Rockland, Westchester

WAGES		
Per hour:	07/01/2021	05/31/2022
Insulator	\$ 56.25	+ \$ 2.00
Discomfort & Additional Training**	59.22	+ \$ 2.00
Fire Stop Work*	30.07	+ \$ 2.00

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

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

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

\$35.10

SUPPL	EMENTAL	BENEFITS
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Per	hour:
-----	-------

Journeyworker

Discomfort &	
Additional Training	37.06
Fire Stop Work:	
Journeyworker	17.90

OVERTIME PAY

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

HOLIDAY

Paid: See (1) on HOLIDAY PAGE Note: Last working day preceding Christmas and New Years day, workers shall work no later than 12:00 noon and shall receive 8 hrs pay.

Overtime: See (2*, 4, 6, 16, 25) on HOLIDAY PAGE. *Note: Labor Day triple time if worked.

REGISTERED APPRENTICES

(1) year terms:

Insulator App	rentices:		
1st	2nd	3rd	4th
\$ 30.07	\$ 35.30	\$ 40.54	\$ 45.78

Discomfort &	Additional Tra	ining Apprenti	ces:
1st	2nd	3rd	4th
\$ 31.55	\$ 37.08	\$ 42.61	\$ 48.16

Supplemental Benefits paid per hour:

Discomfort & Additional Training Apprentices:

1st term

2nd term

3rd term

4th term

Ironworker

Insulator Apprentices:	
1st term	\$ 17.90
2nd term	21.35
3rd term	24.79
4th term	28.23

\$18.89

22.52

26.16

29.80

8-91

01/01/2022

JOB DESCRIPTION Iron	nworker	DISTRICT 9
ENTIRE COUNTIES Bronx, Kings, Nassau, New	York, Queens, Richmond, Suffolk, V	/estchester
WAGES		
Per Hour:	07/01/2021	
Ironworker Rigger	\$ 67.99	
Ironworker Stone		
Derrickman	\$ 67.99	
SUPPLEMENTAL BENE	FITS	
Per hour:	\$ 41.44	
OVERTIME PAY See (B, D1, *E, Q, **V) on (*Time and one-half shall be ** Benefits same premium a	paid for all work on Saturday up to e	ight (8) hours and double time shall be paid for all work thereafter.
HOLIDAY Paid: Overtime: *Work stops at schedule lur	See (18) on HOLIDAY PAGE See (5, 6, 8, 25) on HOLIDAY PAGE nch break with full day's pay.	<u>.</u>

REGISTERED APPRENTICES

Wage per hour:

1/2 year terms at the follo	wing hourly wag	e rate:		
	1st	2nd	3rd	4th
07/01/2021	\$33.55	\$47.94	\$53.34	\$58.74
Supplemental benefits:				

Per hour:				
07/01/2021	\$21.18	\$31.45	\$31.45	\$31.45

Ironworker

JOB DESCRIPTION Ironworker

ENTIRE COUNTIES

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

WAGES Per Hour:	07/01/2021	01/01/2022 Additional \$ 1.25
Ornamental	\$ 46.15	
Chain Link Fence	46.15	
Guide Rail	46.15	
SUPPLEMENTAL BENEFITS Per hour:		
Journeyworker:	\$ 60.05	

DISTRICT 9

9-197D/R

01/01/2022

OVERTIME PAY

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

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

REGISTERED APPRENTICES

Apprentices hired before 8/31/2018: (1/2) year terms at the following percentage of Journeyman's wage. 5th Term 80%

Supplemental Benefits per hour: 5th Term	54.03
Apprentices Hired after 9/1/18: 1 year terms	
1st Term	\$ 20.63
2nd Term	24.22
3rd Term	27.80
4th Term	31.38
Supplemental Benefits per hour:	
1st Term	\$ 17.89
2nd Term	19.14
3rd Term	20.40
4th Term	21.66

Ironworker

JOB DESCRIPTION	Ironworker
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ENTIRE COUNTIES

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

WAGES

PER HOUR:	07/01/2021	01/01/2022
Ironworker: Structural Bridges Machinery	\$ 54.20	\$ 54.95
SUPPLEMENTAL BEI PER HOUR PAID:	NEFITS	
Journeyman	\$ 83.35	\$ 84.35
OVERTIME PAY See (B, B1, Q, *V) on OV *NOTE: Benefits are calc		aid
HOLIDAY Paid: Overtime:	See (1) on HOLIDA See (5, 6, 18, 19) o	Y PAGE n HOLIDAY PAGE
REGISTERED APPRE WAGES PER HOUR:	INTICES	
6 month terms at the follo	owing rate:	
1st 2nd 3rd - 6th	\$28.21 \$28.81 \$29.42	\$28.59 \$29.19 \$29.80
Supplemental Benefits		

\$56.90

4-580-Or

01/01/2022

DISTRICT 4

4-40/361-Str

All Terms

PER HOUR PAID:

\$58.42

JOB DESCRIPTION Ironworker

ENTIRE COUNTIES

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

PARTIAL COUNTIES

MACES

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

Per hour:	07/01/2021
Reinforcing & Metal Lathing	\$ 56.25
"Base" Wage	\$ 54.70 plus \$ 1.55

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

SUPPLEMENTAL BENEFITS

Per nour.	
Reinforcing &	\$ 38.30
Metal Lathing	

OVERTIME PAY

See (B, E, Q, *X) on OVERTIME PAGE *Only \$22.00 per Hour for non worked hours

Supplemental Benefit Premiums for Overtime Hours worked:

Time & One Half	\$ 45.08	
Double Time	\$ 51.33	
HOLIDAY Paid:	See (1) on HOLIDAY PAGE	

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

(1) year terms at the following wage rates:

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

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

SUPPLEMENTAL BENIFITS

Per Hour:

	4th Term	3rd term	2nd term	1st term
	\$ 20.50	\$ 22.00	\$ 21.34	\$ 18.17
4-46Reinf				

Laborer - Building

JOB DESCRIPTION Labore ENTIRE COUNTIES Putnam, Westchester WAGES	er - Building	
WAGES	07/01/2021	
Laborer	\$ 36.40 plus \$5.05**	
Laborer - Asbestos & Hazardo Materials Removal	us \$ 43.10*	

Published by the New York State Department of Labor PRC Number 2022000309 Westchester County

DISTRICT 4

01/01/2022

* Abatement/Removal of:

- Lead based or lead containing paint on materials to be repainted is classified as Painter.

- Asbestos containing roofs and roofing material is classified as Roofer.

** This portion is not subject to overtime premium.

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

SUPPLEMENTAL BENEFITS

/01/2021
27.50

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

HOLIDAY

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

REGISTERED APPRENTICES

LABORER ONLY

Hourly terms at the following wage:

Level A	Level B	Level C	Level D
0-1000	1001-2000	2001-3000	3001-4000
\$ 21.04	\$ 24.86	\$ 28.69	\$ 32.51

Supplemental Benefits per hour:

Apprentices	
All terms	\$ 21.15

8-235/B

01/01/2022

Laborer - Heavy&Highway

JOB DESCRIPTION Laborer - Heavy&Highway

ENTIRE COUNTIES

Putnam, Westchester

WAGES

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

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

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

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

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

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

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

Wages:(per hour)	07/01/2021
GROUP I GROUP II	\$45.65* 44.30*
GROUP III	43.90*

GROUP IV	43.55*
GROUP V	43.20*
GROUP VIA	45.20*
Operator Qualified	
Gas Mechanic(A Mech)	55.65*
Flagperson	36.85*

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

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

SUPPLEMENTAL BENEFITS

Per hour:				
Journeyworl	ker:			
First 40 Ho	urs			
Per Hou	ur \$26.	10		
Over 40 Ho	ours			
Per Hou	ur 19.	85		
OVERTIME See (B, E, F	E PAY P, R, S) on OVERTIME PAGE			
HOLIDAY				
Paid:		6) on HOLIDAY PAGE		
Overtime:	• • • • • • • • • • • • • • • • • • • •	6) on HOLIDAY PAGE		
NOTE:	For Holiday Overtime: 5, 6 - Code 'S			
	For Holiday Overtime: 8, 15, 25, 26	 Code 'R' applies 		
REGISTER	RED APPRENTICES			
	1st term	2nd term	3rd term	4th term

	1st term	2nd term	3rd term	4th term
	1-1000hrs	1001-2000hrs	2001-3000hrs	3001-4000hrs
07/01/2021	\$ 24.56	\$ 28.98	\$ 33.40	\$ 37.72

Supplemental Benefits per hour:

1st term	\$ 4.70 - After 40 hours: \$ 4.45
2nd term	\$ 4.80 - After 40 hours: \$ 4.45
3rd term	\$ 5.30 - After 40 hours: \$ 4.85
4th term	\$ 5.85 - After 40 hours: \$ 5.35

Laborer - Tunnel

JOB DESCRIPTION Laborer - Tunnel

ENTIRE COUNTIES

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

PARTIAL COUNTIES

Chenango: Townships of Columbus, Sherburne and New Berlin. Delaware: Townships of Andes, Bovina, Middletown, Roxbury, Franklin, Hamden, Stamford, Delhi, Kortright, Harpersfield, Merideth and Davenport.

WAGES

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

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

Class 4: Safety Miners

Class 5: Site work related to Shaft/Tunnel

WAGES: (per hour)

	07/01/2021	07/01/2022
Class 1	\$ 51.95	\$ 53.45
Class 2	54.10	55.60
Class 4	60.50	62.00
Class 5	43.50	44.80

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

DISTRICT 11

8-60H/H

01/01/2022

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

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

SUPPLEMENTAL BENEFITS

Per hour:

Benefit 1	\$ 33.25	\$ 34.45
Benefit 2	49.81	51.60
Benefit 3	66.35	68.75

Benefit 1 applies to straight time hours, paid holidays not worked. Benefit 2 applies to over 8 hours in a day (M-F), irregular shift work hours worked, and Saturday hours worked. Benefit 3 applies to Sunday and Holiday hours worked.

OVERTIME PAY

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

HOLIDAY

Paid: See (5, 6, 1 Overtime: See (5, 6, 1

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

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

REGISTERED APPRENTICES

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

11-17/60/235/754Tun

DISTRICT 6

Lineman Electrician	01/01/2022

JOB DESCRIPTION Lineman Electrician

ENTIRE COUNTIES

Westchester

WAGES

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

Includes Teledata Work performed within ten (10) feet of high voltage (600 volts or over) transmission lines.

Per hour:	07/01/2021	05/02/2022	05/01/2023	05/06/2024
Lineman, Tech, Welder	\$ 57.71	\$ 59.01	\$ 60.41	\$ 61.91
Crane, Crawler Backhoe	57.71	59.01	60.41	61.91
Cable Splicer-Pipe Type	63.48	64.91	66.45	68.10
Digging Mach Operator	51.94	53.11	54.37	55.72
Cert. Welder-Pipe Type	60.60	61.96	63.43	65.01
Tractor Trailer Driver	49.05	50.16	51.35	52.62
Groundman, Truck Driver	46.17	47.21	48.33	49.53
Equipment Mechanic	46.17	47.21	48.33	49.53
Flagman	34.63	35.41	36.25	37.15

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

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

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

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):

	\$25.40	\$ 25.90	\$ 26.40	\$ 26.90
	*plus 7% of	*plus 7% of	*plus 7% of	*plus 7% of
	hourly Wage	hourly wage	hourly wage	hourly wage
Journeyman Lineman or	\$ 26.40	\$ 27.90	\$ 29.40	\$ 30.90
Equipment Operators	*plus 7% of	*plus 7% of	*plus 7% of	*plus 7% of
with Crane License	hourly wage	hourly wage	hourly wage	hourly wage

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

OVERTIME PAY

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

HOLIDAY

Paid	See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Governor of NYS Election Day.
Overtime	See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Governor of NYS Election Day.

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

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyman Lineman wage.

1st 60%	2nd 65%	3rd 70%	4th 75%	5th 80%	6th 85%	7th 90%		
SUPPLEM	ENTAL BENEF	TTS per hour:	07/01/2021	1	05/02/2022	2	05/01/2023	05/06/2024
			\$25.40 *plus 7% of hourly Wage		\$ 25.90 *plus 7% of hourly wage		\$ 26.40 *plus 7% of hourly wage	\$ 26.90 *plus 7% of hourly wage

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

Lineman Electrician - Teledata

JOB DESCRIPTION Lineman Electrician - Teledata

DISTRICT 6

6-1249aWest

01/01/2022

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). 07/01/2021

Cable Splicer	\$ 34.78
Installer, Repairman	\$ 33.01
Teledata Lineman	\$ 33.01
Tech., Equip. Operator	\$ 33.01
Groundman	\$ 17.50

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

DISTRICT 6

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:	
Journeyman	\$ 5.14
-	*plus 3% of
	wage paid
17 00/ · · · · · · · ·	

*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

01/01/2022

Lineman Electrician - Traffic Signal, Lighting

JOB DESCRIPTION Lineman Electrician - Traffic Signal, Lighting

ENTIRE COUNTIES Westchester

WAGES

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

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

A flagger's duties shall consist of traffic control only. (Ref #14.01.03)

Per hour:	07/01/2021	05/02/2022	05/01/2023	05/06/2024
Lineman, Technician	\$ 52.56	\$ 53.60	\$ 54.73	\$ 55.95
Crane, Crawler Backhoe	52.56	53.60	54.73	55.95
Certified Welder	55.19	56.28	57.47	58.75
Digging Machine	47.30	48.24	49.26	50.36
Tractor Trailer Driver	44.68	45.56	46.52	47.56
Groundman, Truck Driver	42.05	42.88	43.78	44.76
Equipment Mechanic	42.05	42.88	43.78	44.76
Flagman	31.54	32.16	32.84	33.57

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

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

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

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):

	\$25.40	\$ 25.90	\$ 26.40	\$ 26.90
	*plus 7% of	*plus 7% of	*plus 7% of	*plus 7% of
	hourly Wage	hourly wage	hourly wage	hourly wage
Journeyman Lineman or	\$ 26.40	\$ 27.90	\$ 29.40	\$ 30.90
Equipment Operators	*plus 7% of	*plus 7% of	*plus 7% of	*plus 7% of
with Crane License	hourly wage	hourly wage	hourly wage	hourly wage

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

OVERTIME PAY

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

HOLIDAY

Paid: See (5, 6, 8, 13, 25) on HOLIDAY PAGE and Governor of NYS Election Day. Overtime: See (5, 6, 8, 13, 25) on HOLIDAY PAGE and Governor of NYS Election Day.

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

REGISTERED APPRENTICES

WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyman Lineman wage.

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

07/01/2021	05/02/2022	05/01/2023	05/06/2024
\$25.40	\$ 25.90	\$ 26.40	\$ 26.90
*plus 7% of	*plus 7% of	*plus 7% of	*plus 7% of
hourly Wage	hourly wage	hourly wage	hourly wage

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

6-1249aWestLT

01/01/2022

Mason - Building			
JOB DESCRIPTION Mason - B ENTIRE COUNTIES Nassau, Rockland, Suffolk, Westc	-		DISTRICT 9
WAGES Per hour:	07/01/2021	12/06/2021	06/06/2022 Additional
Tile Setters	\$ 61.07	\$ 61.44	\$ 0.72
SUPPLEMENTAL BENEFITS Per Hour:			
	\$ 24.91* + \$10.01	\$ 25.01* + \$10.02	

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

OVERTIME PAY

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

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

HOLIDAY

Paid:	
Overtime:	

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

DISTRICT 11

REGISTERED APPRENTICES

Wage per hour:

Tile Setters:

(750 hour) term at the following wage rate:

Term: 1st 1- 750	2nd 751- 1500	3rd 1501- 2250	4th 2251- 3000	5th 3001- 3750	6th 3751- 4500	7th 4501- 5250	8th 5251- 6000	9th 6001- 6750	10th 6501- 7000
07/01/2021 \$20.84	\$25.66	\$32.68	\$37.50	\$40.99	\$44.30	\$47.82	\$52.63	\$55.35	\$59.34
Supplementa	al Benefits per	hour:							
1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
\$12.55* +\$.66	\$12.55* +\$.71	\$15.16* +\$.81	\$15.16* +\$.85	\$16.16* +\$1.23	\$17.66* +\$1.28	\$18.66* +\$1.63	\$18.66* +\$1.68	\$16.66* +\$5.83	\$21.91* +\$6.32

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

9-7/52A

01/01/2022

Mason - Building

JOB DESCRIPTION Mason - Building

ENTIRE COUNTIES Putnam, Rockland, Westchester

PARTIAL COUNTIES

Orange: Only the Township of Tuxedo.

WAGES

Per hour:

	07/01/2021	06/01/2022	06/01/2023
		Additional	Additional
Bricklayer	\$ 43.35	\$ 2.39	\$ 2.05
Cement Mason	43.35	2.39	2.05
Plasterer/Stone Mason	43.35	2.39	2.05
Pointer/Caulker	43.35	2.39	2.05

Additional \$1.00 per hour for power saw work

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

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

Irregular work day requires 15% premium Second shift an additional 15% of wage plus benefits to be paid Third shift an additional 25% of wage plus benefits to be paid

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

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

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$36.05.

OVERTIME PAY

OVERTIME: Cement Mason All Others

HOLIDAY

Paid: See (1) on HOLIDAY PAGE Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE Whenever any of the above holidays fall on Sunday, they will be of

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

REGISTERED APPRENTICES

Wages per hour:

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

	Wage Rates fo shed on Jan 01	or 07/01/2021 - (2022	06/30/2022			Pul	blished by the New York State PRC Number 2022000309	
1st 50%	2nd 55%	3rd 60%	4th 65%	5th 70%	6th 75%	7th 80%	8th 85%	
Suppleme	ental Benefits	per hour						
		ollowing perce	• •					
1st 50%	2nd 55%	3rd 60%	4th 65%	5th 70%	6th 75%	7th 80%	8th 85%	
Apprentic	es indentured	before June 1	st, 2011 recei	ve full journevi	man benefits			
				, , ,				11-5wp-l
Mason ·	- Building							01/01/2022
JOB DE	SCRIPTION	Mason - Build	ling				DISTRICT 9	
	COUNTIES ngs, Nassau, I	New York, Que	eens, Richmoi	nd, Suffolk, We	estchester			
WAGES Building				07/04/0	204	04/04/0	222	
Nages pe	er hour:			07/01/20	U21	01/01/2	022	
Mosaic &	Terrazzo Meo	chanic		\$ 58.4	6	\$ 59.2	1	
	Terrazzo Fini EMENTAL BI			\$ 56.8	6	\$ 57.6	0	
Mosaic &	Terrazzo Mec	chanic		\$ 26.1 + \$11.		\$ 26.2 + \$11		
Mosaic &	Terrazzo Fini	sher		\$ 26.1	1*	\$ 26.2	1*	
				+ \$11.	71	+ \$11	.72	
OVERTI See (A, E	ME PAY E, Q) on OVER	s subject to sai RTIME PAGE 80 from hourly	·			ages.		

07/01/2021-Deduct \$6.80 from hourly wages before calculating overtime.

01/01/2022- Deduct \$7.00 from hourly wages before calculating overtime.

HOLIDAY

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

REGISTERED APPRENTICES

Wages per hour: (750 Hour) terms at the following wage rate.

07/01/2021 01/01/2022	1st \$ 25.82 \$ 26.09	2nd \$ 28.40 \$ 28.71	3rd \$ 31.00 \$ 31.32	4th \$ 33.58 \$ 33.94	5th \$ 36.16 \$ 36.55	6th \$ 38.74 \$ 39.15	7th \$ 43.91 \$ 44.38	8th \$ 49.08 \$ 49.60
Supplemental benefits per ho	our:							
07/01/2021	\$13.06*	\$14.37*	\$15.67*	\$16.98*	\$18.28*	\$19.59*	\$22.20*	\$24.81*
	+\$9.27	+\$10.19	+\$11.12	+\$12.04	+\$12.97	+\$13.90	+\$15.75	+\$17.60
01/01/2022	\$13.11*	\$14.42*	\$15.73*	\$17.04*	\$18.35*	\$19.66*	\$22.28*	\$24.90*
	+\$9.37	+\$10.30	+\$11.24	+\$12.17	+\$13.11	+\$14.05	+\$15.92	+\$17.79

Apprentices hired after 07/01/2017: Wages Per hour:

	1st	2nd	3rd	4th	5th	6th
	0-	1501-	3001-	3751-	4501-	5251-
	1500	3000	3750	4500	5250	6000
07/01/2021	\$ 22.63	\$ 29.10	\$ 31.00	\$ 36.16	\$ 41.32	\$ 46.48
01/01/2022	\$ 22.82	\$ 29.34	\$ 31.32	\$ 36.55	\$ 41.77	\$ 46.99
Supplemental Benefits per	hour:					
07/01/2021	1st	2nd	3rd	4th	5th	6th
	\$4.59*	\$5.90*	\$15.67*	\$18.28*	\$20.89*	\$23.50*
	+\$6.49	+\$8.34	+\$11.12	+\$12.97	+\$14.83	+\$16.67
01/01/2022	\$4.62*	\$5.94*	\$15.73*	\$18.35*	\$20.97*	\$23.59*
	+\$6.56	+\$8.43	+\$11.24	+\$13.11	+\$14.99	+\$16.85

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

9-7/3

Mason - Building				01/01/2022			
JOB DESCRIPTION Mason - Building DISTRICT 9 ENTIRE COUNTIES							
Bronx, Kings, Nassau, Nev	v York, Queens, Richmo	nd, Suffolk, Westchester					
WAGES							
Per hour:	07/01/2	2021 01/0)1/2022				
Building-Marble Restoratio Marble, Stone & Terrazzo Polisher, etc	n: \$ 46.1	6 \$4	46.60				
SUPPLEMENTAL BENE Per Hour: Journeyworker:	EFITS						
Building-Marble Restoratio Marble, Stone & Polisher	n: \$ 29.7	1 \$2	29.77				
OVERTIME PAY See (B, *E, Q, V) on OVER *ON SATURDAYS, 8TH H		E HOURS PAID AT DOL	IBLE HOURLY RATE.				
HOLIDAY Paid: Overtime: 1ST TERM APPRENTICE	See (1) on HOLIDAY F See (5, 6, 8, 11, 15, 25 GETS PAID FOR ALL C	i) on HOLIDAY PAGE					
REGISTERED APPREN WAGES per hour:	TICES						
900 hour term at the follow	ing wage:						
	1st 1- 900	2nd 901- 1800	3rd 1801- 2700	4th 2701			
07/01/2021 01/01/2022	\$32.28 \$32.61	\$36.91 \$37.28	\$41.51 \$41.94	\$46.16 \$46.60			

Supplemental Benefits Per Hour:

	ge Rates for 0 d on Jan 01 20	7/01/2021 - 06/ 22	30/2022						partment of Labor estchester County
07/01/2021 01/01/2022		\$26.47\$27.34\$27.07\$27.97				\$28.29 \$28.87		\$29.11 \$29.77	9-7/24-MP
Mason - Bu	uilding								01/01/2022
JOB DESC	RIPTION M	ason - Building	9				DISTRICT	9	
ENTIRE CC Bronx, Dutch		assau, New Y	'ork, Orange, F	utnam, Quee	ns, Richmond,	Rockland, Su	ffolk, Sullivan,	Ulster, Westc	hester
WAGES	J., J.,	, -	,					,	
Wages:				07/01/202	1	01/03/2022	2		
Marble Cutte SUPPLEME Per Hour:	rs & Setters ENTAL BEN	EFITS		\$ 61.73		\$ 62.17			
Journeywork	er			\$ 37.76		\$ 38.27			
-	PAY , V) on OVER	TIME PAGE							
HOLIDAY Paid: Overtime:			HOLIDAY PAG , 11, 15, 16, 25		Y PAGE				
REGISTER Wage Per Ho	ED APPREN our:	ITICES							
750 hour terr 1st	ns at the follo 2nd	wing wage. 3rd	4th	5th	6th	7th	8th	9th	10th
1- 750	751- 1500	1501- 2250	2251- 3000	3001- 3750	3751- 4500	4501- 5250	5251- 6000	6001- 6751	6751- 7500
07/01/2021 \$ 24.70 01/03/2022	\$ 27.77	\$ 30.87	\$ 33.94	\$ 37.03	\$ 40.11	\$ 43.20	\$ 46.29	\$ 52.46	\$ 58.64
\$ 24.88	\$ 27.97	\$ 31.08	\$ 34.17	\$ 37.29	\$ 40.39	\$ 43.51	\$ 46.61	\$ 52.82	\$ 59.05
Supplementa	Il Benefits per	hour:							
1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
07/01/2021 \$ 20.01	\$ 21.43	\$ 22.83	\$ 24.25	\$ 25.65	\$ 27.07	\$ 28.47	\$ 29.88	\$ 32.70	\$ 35.51
01/03/2022 \$ 20.55	\$ 22.04	\$ 23.52	\$ 25.01	\$ 26.47	\$ 27.96	\$ 29.42	\$ 30.91	\$ 33.86	\$ 36.81 9-7/4
Mason - Bu	uilding								01/01/2022
JOB DESC		ason - Building	9				DISTRICT	9	
Nassau, Roc WAGES	kland, Suffolk	, Westchester							
Per hour:			07/01/2021		12/06/2021		06/06/2022	2	
			A 40.00		• • • • • •		Additional		
Tile Finisher SUPPLEME	NTAL BEN	EFITS	\$ 46.89		\$ 47.18		\$ 0.58		
Per Hour:			\$ 21.91*		\$ 22.01*				
*This portion	of benefits su	ubject to same	+ \$9.84 premium rate	as shown for	+ \$9.84 overtime wages	S			

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

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

9-7/88A-tf

Mason - Building			01/01/2022
JOB DESCRIPTION Mason - Building		DISTRICT 9	
ENTIRE COUNTIES Bronx, Kings, Nassau, New York, Queens, Richm	ond, Suffolk, Westchester		
WAGES Per hour:	07/01/2021	01/01/2022	
Marble, Stone,etc. Maintenance Finishers:	\$ 26.73	\$ 27.01	
Note 1: An additional \$2.00 per hour for time spent grinding floor using "60 grit" and below. Note 2: Flaming equipment operator shall be paid an additional \$25.00 per day.			
SUPPLEMENTAL BENEFITS Per Hour:			
Marble, Stone, etc Maintenance Finishers:	\$ 14.00	\$ 14.40	
OVERTIME PAY See (B, *E, Q, V) on OVERTIME PAGE *Double hourly rate after 8 hours on Saturday			
	25) on HOLIDAY PAGE 25) on HOLIDAY PAGE days.		
REGISTERED APPRENTICES WAGES per hour:			
	07/01/2021	01/01/2022	
0-750	\$21.37	\$21.67	
751-1500 1501-2250 2251-3000 3001-3750 3751-4500 4501+	\$22.09 \$22.81 \$23.52 \$24.61 \$26.04 \$26.73	\$22.38 \$23.10 \$23.80 \$24.87 \$26.29 \$27.01	
Supplemental Benefits: Per hour:			
0-750 751-1500 1501-2250 2251-3000 3001-3750 3751-4500 4501+	\$ 11.24 \$ 11.60 \$ 11.97 \$ 12.35 \$ 12.84 \$ 13.63 \$ 14.00	\$11.52 \$11.90 \$12.29 \$12.67 \$13.25 \$14.01 \$14.40	
	ψ 17.00	ψιτ.τυ	9-7/24M-MF

Mason - Building / Heavy&Highway

JOB DESCRIPTION Mason - Building / Heavy&Highway

ENTIRE COUNTIES

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

01/01/2022

Prevailing Wage Rates for 07/01/2021 - 06 Last Published on Jan 01 2022	5/30/2022		Published by the New York State Department of Labor PRC Number 2022000309 Westchester County
Per hour:	07/01/2021	01/03/2022	
Marble-Finisher	\$ 48.87	\$ 48.97	
SUPPLEMENTAL BENEFITS Journeyworker: per hour			
Marble- Finisher	\$ 35.25	\$ 35.76	
OVERTIME PAY See (B, E, Q, V) on OVERTIME PAGE			
HOLIDAY Overtime: See (5, 6, 6 * Work beyond 8 hours on a Saturday s	8, 11, 15, 16, 25) on H0 shall be paid at double t		
** When an observed holiday falls on a			
			9-7/20-MF
Mason - Heavy&Highway			01/01/2022
JOB DESCRIPTION Mason - Heavy	&Highway		DISTRICT 11
ENTIRE COUNTIES Putnam, Rockland, Westchester			
PARTIAL COUNTIES Orange: Only the Township of Tuxedo			
WAGES Per hour:			
	07/01/2021	06/01/2022 Additional	06/01/2023 Additional
Bricklayer	\$ 43.85	\$ 2.39	\$ 2.05
Cement Mason	43.85	2.39	2.05
Marble/Stone Mason	43.85	2.39	2.05
Plasterer	43.85	2.39	2.05
Pointer/Caulker	43.85	2.39	2.05
Additional \$1.00 per hour for power sav Additional \$0.50 per hour for swing sca			

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

Irregular work day requires 15% premium Second shift an additional 15% of wage plus benefits to be paid Third shift an additional 25% of wage plus benefits to be paid

SUPPLEMENTAL BENEFITS

Per hour:

Journeyman \$ 36.05

OVERTIME PAY

Cement Mason All Others

HOLIDAY

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

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

See (B, E, Q, W, X)

See (B, E, Q, X)

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

REGISTERED APPRENTICES

Wages per hour:

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

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

Supplemental Benefits per hour

e Department of Labor Westchester County	Prevailing Wage Rates for 07/01/2021 - 06/30/2022 Last Published on Jan 01 2022						
					• • •	• •	nour terms at the foll
	8th 85%	7th 80%	6th 75%	5th 70%	4th 65%	3rd 60%	2nd 55%
11-5WP-H/H			nan benefits	e full journeym	1st, 2011 receive	pefore June 1	entices indentured b
01/01/2022						Building	rating Engineer -
	DISTRICT 9			1	aineer - Buildina	-	DESCRIPTION (
			r				IRE COUNTIES
	reensie	City of Poughk					TIAL COUNTIES ness: that part of Du
			-	ssists Party Cl	y party istrument and ass	eying rects a survey to runs the ins	SES E:Construction surver ChiefOne who dir ument ManOne who nanOne who holds
					07/01/2021		es:(Per Hour)
							ing Construction:
					\$ 76.09 \$ 60.41 \$ 41.11		Chief ument Man nan
							Erection:
					\$ 79.02 \$ 62.89		Chief Iment Man
					\$ 44.03		nan
					ıly:		y Construction-NYC ndation, Excavation.
					\$ 84.60		Chief
					\$ 63.79 \$ 54.52		iment man nan
					07/01/2021	NEFITS	PLEMENTAL BEN lour:
				\$ 7.15	\$ 24.40* +\$		ing Construction
				\$ 7.15	\$ 25.00* +\$		Erection
				\$ 7.15	\$ 25.25* +\$		y Construction
					ım as wages	same premiur	s portion subject to s
						pplemental Be	Worked Holiday Sup
	rs on Saturdays.				ction and has dou	ling Construc	RTIME PAY A, B, E, Q) on OVE "A" applies to Build "B" applies to Heav
	·		AY PAGE	25) on HOLID	5, 9, 11, 15, 16, 2 5, 9, 11, 15, 16, 2	See (5, 6,	IDAY
9-15Db							

JOB DESCRIPTION Operating Engineer - Building

ENTIRE COUNTIES Putnam, Westchester

PARTIAL COUNTIES

DISTRICT 8

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

WAGES

GROUP I:

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

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

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

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

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

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

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

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

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

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

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

Group VI-A: Welder Certified GROUP VI-B: Utility Man, Warehouse Man.

WAGES: (per hour)

	07/01/2021	3/7/2022	3/6/2023
GROUP I			
Cranes- up to 49 tons	\$ 63.86	\$ 65.03	\$ 66.23
Cranes- 50 tons to 99 tons	66.07	67.28	68.53
Cranes- 100 tons and over	75.37	76.77	78.21
GROUP I-A	55.96	56.97	58.01
GROUP I-B	51.60	52.52	53.48

GROUP II	54.00	54.98	55.70
GROUP III-A	52.04	52.97	53.94
GROUP III-B	49.56	50.44	51.35
GROUP IV-A	51.52	52.44	53.40
GROUP IV-B	43.62	44.38	45.17
GROUP V	47.00	47.83	48.69
Group VI-A	54.94	55.93	56.96
GROUP VI-B			
Utility Man	44.61	45.39	46.21
Warehouse Man	46.74	47.57	48.42

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

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker		1/2021 9.17	03/07/2022 \$ 29.87	03/06/2023 \$ 30.57
OVERTIME PAY See (B, E, Q, V) on	OVERTIME PAGE			
HOLIDAY Paid: Overtime:	See (5, 6, 8, 15, 25, 26) on HOLID See (5, 6, 8, 15, 25, 26) on HOLID	AY PAGE AY PAGE		
Operating Engin	eer - Heavy&Highway			0

JOB DESCRIPTION Operating Engineer - Heavy&Highway

ENTIRE COUNTIES

Putnam, Westchester

PARTIAL COUNTIES

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

WAGES

GROUP I: Boom Truck, Cherry Picker, Clamshell, Crane, (Crawler, Truck),

Dragline, Drill Rig (Casa Grande, Cat, or Similar), Floating Crane (Crane on Barges) under 100 tons, Gin Pole, Hoist Engineer-Concrete (Crane-Derrick-Mine Hoist), Knuckle Boom Crane, Rough Terrain Crane.

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

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

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

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

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

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

8-137B

01/01/2022

DISTRICT 8

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

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

WAGES: Per hour:	07/01/2021	03/07/2022	03/06/2023
Group I	\$ 64.63	\$ 65.97	\$ 67.27
Group I-A	57.02	58.16	59.26
Group I-B	60.06	61.28	62.46
Group II-A	54.61	55.70	56.74
Group II-B	56.31	57.44	58.52
Group III	53.66	54.72	55.74
Group IV	48.80	49.74	50.63
Group IV-B	41.94	42.71	43.43
Group V			
Engineer All Tower, Climbing an	d		
Cranes of 100 Tons	73.18	74.73	76.24
Hoist Engineer(Steel)	66.29	67.67	69.01
Engineer(Pile Driver)	70.67	72.16	73.61
Jersey Spreader, Pavement Brea	ıker (Air		
Ram)Post Hole Digger	55.87	56.99	58.06

SHIFT DIFFERENTIAL:

A 15% premium on all hours paid, including overtime hours for 2nd, 3rd shifts

on all government mandated off-shift work

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

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 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:

Journeyworker:	07/01/2021	03/07/2022	03/06/2023
	\$ 31.60 up	\$ 32.60 up	\$ 33.75 up
	to 40 Hours	to 40 hours	to 40 hours
	After 40 hours	After 40 hours	After 40 hours
	\$ 22.40* PLUS	\$ 23.40* PLUS	\$ 24.50* PLUS
	\$ 1.20 on all	\$ 1.20 on all	\$ 1.25 on all
	hours worked	hours worked	hours worked

*This amount is subject to premium

OVERTIME PAY

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

HOLIDAY

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

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

** For Holiday Codes 5 & 6 code U applies

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

REGISTERED APPRENTICES

(1)year terms at the following rate.

07/01/2021

03/07/2022

Party Chief	\$ 81.72	
Instrument Man Rodman	61.43 52.40	
SUPPLEMENTAL BENEFITS Per Hour:	07/01/2021	
All Catorgories Straight Time:	\$ 25.25* plus \$7.15	
Premium: Time & 1/2	\$ 37.88* plus \$7.15	
Double Time	\$ 50.50* plus \$7.15	
Non-Worked Holiday Supplemental Bene	fits: \$ 16.45	
OVERTIME PAY See (B, *E, Q) on OVERTIME PAGE * Doubletime paid on all hours in excess	of 8 hours on Saturday	
HOLIDAY Paid: See (5, 6, 7, 0) Overtime: See (5, 6, 7, 0)	11, 12) on HOLIDAY PAGE 11, 12) on HOLIDAY PAGE	9-15E
Operating Engineer - Heavy&High	way - Tunnel	01/01/202
JOB DESCRIPTION Operating Engine ENTIRE COUNTIES Putnam, Westchester	eer - Heavy&Hignway - Tunnei	DISTRICT 8
the City of Poughkeepsie, then due east Wagner Road, then north along Van Wag	to Route 115, then north along Route 1 gner Road to Bower Road, then east al the northern boundary of Town of Dow	Dutchess County defined by the northern boundary line of 15 to Bedell Road, then east along Bedell Road to Van ong Bower Road to Route 44 and along Route 44 east to er Plains and east along the northern boundary of Town of west by the middle of the Hudson River.

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

Prevailing Wage Rates for 07/01/2021 - 06/30/2022 Last Published on Jan 01 2022

\$28.51

34.21

39.91

45.61

23.60

07/01/2021

\$ 29.08

34.90

40.71

46.53

24.55

JOB DESCRIPTION Operating Engineer - Heavy&Highway

Operating Engineer - Heavy&Highway

ENTIRE COUNTIES

Putnam, Westchester

PARTIAL COUNTIES

Supplemental Benefits per hour:

Dutchess: South of the North city line of Poughkeepsie

WAGES

Per Hour:

1st term

2nd term

3rd term

4th term

Party Chief - One who directs a survey party Instrument Man - One who runs the instrument and assists Party Chief Rodman - One who holds the rod and in general, assists the Survey Crew Catorgories cover GPS & Underground Surveying

Party Chief	\$ 81.72
Instrument Man Rodman	61.43 52.40
SUPPLEMENTAL BENEFI Per Hour:	TS 07/01/2021
All Catorgories Straight Time:	\$ 25.25* plus \$7.15
Premium: Time & 1/2	\$ 37.88* plus \$7.15
Double Time	\$ 50.50* plus \$7.15
Non-Worked Holiday Supplem	ental Benefits: \$ 16.45
OVERTIME PAY See (B, *E, Q) on OVERTIME * Doubletime paid on all hours	PAGE in excess of 8 hours on Saturday
HOLIDAY Paid: So Overtime: So	ee (5, 6, 7, 11, 12) on HOLIDAY PAGE ee (5, 6, 7, 11, 12) on HOLIDAY PAGE

Opera

JOB D

ENTIR

Putnam

DISTRICT 9

8-137HH

9-15Dh

01/01/2022

01/01/2022

Published by the New York State Department of Labor PRC Number 2022000309 Westchester County

\$ 29.63

35.56

41.48

47.41

25.70

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

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

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

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

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

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

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

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

WAGES: (per nour)			
	07/01/2021	03/07/2022	03/06/2023
GROUP I	\$ 64.63	\$ 65.97	\$ 67.27
GROUP I-A	57.02	58.16	59.21
GROUP I-B	60.06	61.28	62.46
GROUP II-A	54.61	55.70	56.74
GROUP II-B	56.31	57.44	58.52
GROUP III	53.66	54.72	55.74
GROUP IV-A	48.80	49.74	50.63
GROUP IV-B	41.94	42.71	43.43
GROUP V-A			
Engineer-Cranes	73.18	74.73	76.24
Engineer-Pile Driver	70.67	72.16	73.61
Hoist Engineer	66.29	67.67	69.01
Jersey Spreader/Post			
Hole Digger	55.87	56.99	58.06

SHIFT DIFFERENTIAL:

MACES: (por hour)

A 15% premium on all hours paid, including overtime hours for 2nd, 3rd shifts

on all government mandated off-shift work

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

SUPPLEMENTAL BENEFITS

Per hour:		
Journeyworker:		
	07/01/2021	03/
	¢ 22.60	¢

7/01/2021	03/07/2022	03/06/2023
\$ 23.60	\$ 24.55	\$ 25.70
+ \$8.00	+ \$8.00	+ \$8.00

(Limited to first 40 hours)	(Limited to first 40 hours)	(Limited to first 40 hours

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

HOLIDAY

Paid:

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

Overtime:

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

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

REGISTERED APPRENTICES

(1)year terms at the following rates:

	07/01/2021	03/07/2022	03/06/2023	
1st term	\$ 28.51	\$ 29.08	\$ 29.63	
2nd term	34.21	34.90	35.56	
3rd term	39.91	40.71	41.48	
4th term	45.61	46.53	47.41	
Supplemental Benefits per ho	ur:			
All terms	\$ 23.60	\$ 24.55	\$ 25.70	
				8-137Tun
Operating Engineer - Mai	rine Dredging			01/01/2022

JOB DESCRIPTION Operating Engineer - Marine Dredging

DISTRICT 4

ENTIRE COUNTIES

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

WAGES

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

Per Hour:	07/01/2021	10/01/2021
CLASS A1 Deck Captain, Leverman Mechanical Dredge Operator Licensed Tug Operator 1000HP or more	\$ 41.42	\$ 41.42
CLASS A2 Crane Operator (360 swing)	36.91	36.91
CLASS B Dozer,Front Loader Operator on Land	To conform to Operating Engineer Prevailing Wage in locality where work is being performed including benefits.	
CLASS B1 Derrick Operator (180 swing) Spider/Spill Barge Operator Operator II, Fill Placer, Engineer, Chief Mate, Electrician, Chief Welder, Maintenance Engineer Licensed Boat, Crew Boat Operator	35.82	35.82
CLASS B2 Certified Welder	33.72	33.72
CLASS C1 Drag Barge Operator, Steward, Mate, Assistant Fill Placer	32.80	32.80
CLASS C2 Boat Operator	30.89	31.74

CLASS D

25.66

26.37

Shoreman, Deckhand, Oiler, Rodman, Scowman, Cook, Messman, Porter/Janitor

SUPPLEMENTAL BENEFITS

Per Hour: THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

All Classes A & B	07/01/2021 \$11.98 plus 8% of straight time wage, Overtime hours add \$ 0.63	10/01/2021 \$11.98 plus 8% of straight time wage, Overtime hours add \$ 0.63
All Class C	\$11.68 plus 8% of straight time wage, Overtime hours add \$ 0.48	11.68 plus 8% of straight time wage, Overtime hours add \$ 0.48
All Class D	\$11.38 plus 8% of straight time wage, Overtime hours add \$ 0.33	11.38 plus 8% of straight time wage, Overtime hours add \$ 0.33
OVERTIME PAY See (B2, F, R) on OVERTIME PAGE		

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

4-25a-MarDredge

Operating Engineer	- Survey Crew - Consulting Engineer		01/01/2022
JOB DESCRIPTION	Operating Engineer - Survey Crew - Consulting Engineer	DISTRICT 9	
ENTIRE COUNTIES Bronx, Kings, Nassau, I	New York, Putnam, Queens, Richmond, Suffolk, Westchester		
PARTIAL COUNTIES Dutchess: That part in	Cuchess County lying South of the North City line of Poughkeepsi	ie.	
WAGES Feasibility and prelimina	ary design surveying, any line and grade surveying for inspection	or supervision of construction.	
Per hour: Survey Classifications	07/01/2021		
Party Chief Instrument Man Rodman	\$ 45.83 38.17 33.34		
SUPPLEMENTAL BE Per Hour:	ENEFITS		
All Crew Members:	\$ 20.60		
	E*, Q, V) ON OVERTIME PAGE. aid on the 9th hour on Saturday.		
HOLIDAY Paid: Overtime:	See (5, 6, 7, 11, 16) on HOLIDAY PAGE See (5, 6, 7, 11, 16) on HOLIDAY PAGE		9-15dconsul
Painter			01/01/2022
	Deinter		

ENTIRE COUNTIES

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

WAGES Per hour:	07/01/2021
Brush	\$ 50.30*
Abatement/Removal of lead based or lead containing paint on materials to be repainted.	50.30*
Spray & Scaffold Fire Escape Decorator Paperhanger/Wall Coverer	\$ 53.30* 53.30* 53.30* 52.93*
*Subtract \$ 0.10 to calculate premium rate.	
SUPPLEMENTAL BENEFITS Per hour:	07/01/2021
Paperhanger All others Premium	\$ 31.83 29.81 33.40**
**Applies only to "All others" category,not paperhanger OVERTIME PAY	journeyworker.

See (A, H) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

One (1) year terms at the following wage rate.

Per hour:	07/01/2021
Appr 1st term	\$ 19.56*
Appr 2nd term	25.12*
Appr 3rd term	30.42*
Appr 4th term	40.65*

*Subtract \$ 0.10 to calculate premium rate.

Supplemental benefits:	
Per Hour:	07/01/2021
Appr 1st term	\$ 14.72
Appr 2nd term	18.23
Appr 3rd term	21.06
Appr 4th term	26.67

Painter

JOB DESCRIPTION Painter

ENTIRE COUNTIES

Putnam, Suffolk, Westchester

PARTIAL COUNTIES

Nassau: All of Nassau except the areas described below: Atlantic Beach, Ceaderhurst, East Rockaway, Gibson, Hewlett, Hewlett Bay, Hewlett Neck, Hewlett Park, Inwood, Lawrence, Lido Beach, Long Beach, parts of Lynbrook, parts of Oceanside, parts of Valley Stream, and Woodmere. Starting on the South side of Sunrise Hwy in Valley Stream running east to Windsor and Rockaway Ave., Rockville Centre is the boundary line up to Lawson Blvd. turn right going west all the above territory. Starting at Union Turnpike and Lakeville Rd. going north to Northern Blvd. the west side of Lakeville road to Northern blvd. At Northern blvd. going east the district north of Northern blvd. to Port Washington Blvd. West of Port Washington blvd.to St.Francis Hospital then north of first traffic light to Port Washington and Sands Point, Manor HAven, Harbour Acres.

WAGES

Per hour:	07/01/2021
Drywall Taper	\$ 50.30*

DISTRICT 8

8-NYDC9-B/S

*Subtract \$ 0.10 to calculate premium rate.

	I Contraction of the second seco	
SUPPLEMENTAL BENE Per hour: Journeyman	EFITS 07/01/2021 \$ 29.81	
OVERTIME PAY See (A, H) on OVERTIME PAGE		
HOLIDAY Paid: Overtime:	See (1) on HOLIDAY PAGE See (5, 6, 16, 25) on HOLIDAY PAGE	
REGISTERED APPREN Wages - Per Hour:	TICES 07/01/2021	
1500 hour terms at the following wage rate:		
1st term 2nd term 3rd term 4th term	\$ 19.56* 25.12* 30.42* 40.65*	

*Subtract \$ 0.10 to calculate premium rate.

Supplemental Benefits - Per hour: One year term (1500 hours) at the following dollar amount.

1st year	\$ 14.72
2nd year	18.23
3rd year	21.06
4th year	26.67

8-NYDCT9-DWT

01/01/2022

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Painter - Bridge & Structural Steel
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JOB DESCRIPTION Painter - Bridge & Structural Steel

ENTIRE COUNTIES

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

WAGES

Per Hour: STEEL: Bridge Painting:

Bridge Painting:	07/01/2021	10/01/2021
	\$ 51.50	\$ 53.00
	+ 8.63*	+ 9.63*

ADDITIONAL \$6.00 per hour for POWER TOOL/SPRAY, whether straight time or overtime.

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

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (no cap).

NOTE: Generally, for Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

SHIFT WORK:

When directly specified in public agency or authority contract documents for an employer to work a second shift and works the second shift with employees other than from the first shift, all employees who work the second shift will be paid 10% of the base wage shift differential in lieu of overtime for the first eight (8) hours worked after which the employees shall be paid at time and one half of the regular wage rate. When a single irregular work shift is mandated in the job specifications or by the contracting agency, wages shall be paid at time and one half for single shifts between the hours of 3pm-11pm or 11pm-7am.

SUPPLEMENTAL BENEFITS

Per Hour: Journeyworker:

07/01/2021

DISTRICT 8

\$ 10.90	\$ 10.90
+ 30.00*	+ 30.60*

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (no cap).

OVERTIME PAY

See (B, F, R) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

Wage - Per hour:

Apprentices:	(1) year terms
--------------	----------------

Applentices. (1) year terms		
	07/01/2021	10/01/2021
1st year	\$ 20.60	\$ 21.20
	+ 3.45*	+ 3.86*
	A A A A	A A (A A
2nd year	\$ 30.90	\$ 31.80
	+ 5.18*	+ 5.78*
3rd year	\$ 41.20	\$ 42.40
	+ 6.90*	+ 7.70*
Supplemental Benefits - Per hour:	0.00	
1 at year	¢ OF	¢ OF
1st year	\$.25	\$.25
	+ 12.00*	+ 12.24*
2nd year	\$ 10.90	\$ 10.90
-	+ 18.00*	+ 18.36*
3rd year	\$ 10.20	\$ 10.90
,	+ 24.00*	+ 24.48*
	. 21.00	· 24.40

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

8-DC-9/806/155-BrSS

01/01/2022

Painter - Line Striping

JOB DESCRIPTION Painter - Line Striping

ENTIRE COUNTIES

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

WAGES

Per hour:

Painter (Striping-Highway):	07/01/2021	07/01/2022
Striping-Machine Operator*	\$ 30.32	\$ 31.53
Linerman Thermoplastic	36.93	38.34

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

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

DISTRICT 8

Prevailing Wage Rates f Last Published on Jan 0	or 07/01/2021 - 06/30/2022 1 2022			ork State Department of Labor 2000309 Westchester County
Per hour paid:		07/01/2021	07/01/2022	
Journeyworker:				
Striping Machine Oper Linerman Thermoplas		\$ 10.03 10.03	\$ 10.03 10.03	
OVERTIME PAY See (B, B2, E2, F, S) o	on OVERTIME PAGE			
HOLIDAY	- /	/		
Paid: Overtime:	See (5, 20) on HOLI See (5, 20) on HOLI			
REGISTERED APP One (1) year terms at	RENTICES the following wage rates:			
	07/01/2021	12/31/2021	07/01/2022	
1st Term*:	\$ 15.00	\$ 15.00	\$ 15.00	
1st Term**:	14.00	15.00	15.00	
1st Term***:	12.50	13.20	13.20	
2nd Term: 3rd Term:	18.19 24.26	18.19 24.26	18.92 25.22	
*Bronx, Kings, New Yo **Nassau and Westche ***All other counties	ork, Queens, Richmond, an ester counties	d Suffolk counties		
Supplemental Benefits	s per hour:			
1st term:	\$ 9.16	\$ 9.16	\$ 9.16	
2nd Term:	9.16	9.16	10.03	
3rd Term:	9.16	9.16	10.03	8-1456-LS
Painter - Metal Pol	isher			01/01/2022

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	
	07/01/2021
Metal Polisher	\$ 37.13
Metal Polisher*	38.23
Metal Polisher**	41.13

*Note: Applies on New Construction & complete renovation ** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS Per Hour:	07/01/2021	
Journeyworker: All classification	\$ 10.64	
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:

07/01/2021
\$ 16.00
17.00

DISTRICT 8

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	\$ 7.39
2nd year	7.39
3rd year	7.39

Plumber

JOB DESCRIPTION Plumber

ENTIRE COUNTIES

Putnam, Westchester

WAGES

Per hour:

	07/01/2021
	07/01/2021
Plumber and	
Steamfitter	\$ 59.01

SHIFT WORK:

When directly specified in public agency or authority contract documents, shift work outside the regular hours of work shall be comprised of eight (8) hours per shift not including Saturday, Sundays and holidays. One half (1/2) hour shall be allowed for lunch after the first four (4) hours of each shift. Wage and Fringes for shift work shall be straight time plus a shift premium of twenty-five (25%) percent. A minimum of five days Monday through Friday must be worked to establish shift work.

SUPPLEMENTAL BENEFITS

Per hour:

Journeyworker \$ 39.26

OVERTIME PAY

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

HOLIDAY

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

REGISTERED APPRENTICES

(1)year terms at the following wages:

1st Term	\$ 21.89
2nd Term	25.13
3rd Term	29.01
4th Term	41.43
5th Term	44.45

Supplemental Benefits per hour:

\$ 16.25
18.13
21.57
28.41
30.11

8-21.1-ST

8-8A/28A-MP

01/01/2022

JOB DESCRIPTION Plumber - HVAC / Service

ENTIRE COUNTIES Dutchess, Putnam, Westchester

PARTIAL COUNTIES

Delaware: Only the townships of Middletown and Roxbury Ulster: Entire County(including Wallkill and Shawangunk Prisons) except for remainder of Town of Shawangunk and Towns of Plattekill, Marlboro, and Wawarsing.

WAGES

HVAC Service

\$40.68 + \$ 4.32*

*Note: This portion of wage is not subject to overtime premium.

SUPPLEMENTAL BENEFITS

Per hour:

07/01/2021

Journeyworker HVAC Service

\$26.54

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

HOLIDAY

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

REGISTERED APPRENTICES

HVAC SERVICE

(1)year terms at the following wages:

1st yr.	2nd yr.	3rd yr.	4th yr.	5th yr.
\$ 18.50	\$ 21.88	\$ 27.31	\$ 33.56	\$ 36.36
+\$2.37*	+\$2.67*	+\$3.22*	+\$3.84*	+\$4.07*

*Note: This portion of wage is not subject to overtime premium.

Supplemental Benefits per hour:

Apprentices	07/01/2021
1st term	\$ 19.66
2nd term	20.86
3rd term	22.21
4th term	24.02
5th term	25.33

Plumber - Jobbing & Alterations

JOB DESCRIPTION Plumber - Jobbing & Alterations

ENTIRE COUNTIES

Dutchess, Putnam, Westchester

PARTIAL COUNTIES

Ulster: Entire county (including Wallkill and Shawangunk Prisons in Town of Shawangunk) EXCEPT for remainder of Town of Shawangunk, and Towns of Plattekill, Marlboro, and Wawarsing.

WAGES

Per hour:	07/01/2021
Journeyworker:	\$ 45.83

Repairs, replacements and alteration work is any repair or replacement of a present plumbing system that does not change existing roughing or water supply lines.

SHIFT WORK:

DISTRICT 8

01/01/2022

DISTRICT 8

When directly specified in public agency or authority contract documents, shift work outside the regular hours of work shall be comprised of eight (8) hours per shift not including Saturday, Sundays and holidays. One half (1/2) hour shall be allowed for lunch after the first four (4) hours of each shift. Wage and Fringes for shift work shall be straight time plus a shift premium of twenty-five (25%) percent. A minimum of five days Monday through Friday must be worked to establish shift work.

SUPPLEMENTAL BENEFITS

Per hour: Journeyworker

\$ 32.96

OVERTIME PAY

See (B, *E, E2, Q, V) on OVERTIME PAGE *When used as a make-up day, hours after 8 on Saturday shall be paid at time and one half.

HOLIDAY

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

REGISTERED APPRENTICES

(1) year terms at the following wages:

1st year	\$ 19.88
2nd year	22.06
3rd year	23.90
4th year	33.57
5th year	35.46

Supplemental Benefits per hour:

1st year	\$ 10.74
2nd year	12.65
3rd year	16.58
4th year	22.39
5th year	24.32

8-21.3-J&A

Roofer 01/01/2022 JOB DESCRIPTION Roofer **DISTRICT** 9 **ENTIRE COUNTIES** Bronx, Dutchess, Kings, New York, Orange, Putnam, Queens, Richmond, Rockland, Sullivan, Ulster, Westchester WAGES 07/01/2021 Per Hour: \$ 45.25 Roofer/Waterproofer + \$7.00* * This portion is not subjected to overtime premiums. Note: Abatement/Removal of Asbestos containing roofs and roofing material is classified as Roofer. SUPPLEMENTAL BENEFITS Per Hour: \$28.62 **OVERTIME PAY** See (B, H) on OVERTIME PAGE Note: An observed holiday that falls on a Sunday will be observed the following Monday. HOLIDAY See (1) on HOLIDAY PAGE Paid: See (5, 6) on HOLIDAY PAGE Overtime: **REGISTERED APPRENTICES** (1) year term 3rd 4th 1st 2nd \$15.84 \$ 22.63 \$27.15 \$ 33.94 + 3.50* + 4.20* + 5.26* Supplements

s:				
	1st	2nd	3rd	4th
	\$ 3.72	\$ 14.47	\$ 17.30	\$ 21.55

9-8R

Sheetmetal Worker

JOB DESCRIPTION Sheetmetal Worker

ENTIRE COUNTIES

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

	07/01/2021
SheetMetal Worker	\$ 44.15
	+ 3.37*

*This portion is not subject to overtime premiums.

SHIFT WORK

For all NYS D.O.T. and other Governmental mandated off-shift work: 10% increase for additional shifts for a minimum of five (5) days

SUPPLEMENTAL BENEFITS

Journeyworker \$44.20

OVERTIME PAY

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

HOLIDAY

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6, 8, 15, 16, 23) on HOLIDAY PAGE

REGISTERED APPRENTICES

1st	2nd	3rd	4th	5th	6th	7th	8th
\$ 16.36	\$ 18.41	\$ 20.46	\$ 22.51	\$ 24.54	\$ 26.60	\$ 29.12	\$ 31.65
+ 1.35*	+ 1.52*	+ 1.69*	+ 1.85*	+ 2.02*	+ 2.19*	+ 2.36*	+ 2.53*

*This portion is not subject to overtime premiums.

Supplemental Benefits per hour:

Apprentices	
1st term	\$ 18.96
2nd term	21.34
3rd term	23.71
4th term	26.11
5th term	28.46
6th term	30.82
7th term	32.72
8th term	34.64

Sheetmetal Worker

JOB DESCRIPTION Sheetmetal Worker

ENTIRE COUNTIES

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

WAGES		
Per Hour:	07/01/2021	8/01/2021

NOTE: Structurally Supported Overhead Highway Signs(See STRUCTURAL IRON WORKER CLASS)

\$ 52.29

SUPPLEMENTAL BENE Per Hour:	EFITS 07/01/2021	8/01/2021	
Sign Erector	\$ 51.26	\$ 53.15	
OVERTIME PAY See (A, F, S) on OVERTIM	E PAGE		
HOLIDAY Paid: Overtime:	See (5, 6, 10, 11, 12, 16, 25) on F See (5, 6, 10, 11, 12, 16, 25) on F	IOLIDAY PAGE IOLIDAY PAGE	
REGISTERED APPREN	TICES		

Per Hour:

Sign Erector

01/01/2022

DISTRICT 8

DISTRICT 4

\$ 53.97

01/01/2022

8-38

6 month Te	rms at the follo	wing percenta	ge of Sign Ere	ectors wage ra	te:				
1st 35%	2nd 40%	3rd 45%	4th 50%	5th 55%	6th 60%	7th 65%	8th 70%	9th 75%	10th 80%
SUPPLEME Per Hour:	ENTAL BENEF	ITS							
07/01/202 1st \$ 14.34	1 2nd \$ 16.26	3rd \$ 18.17	4th \$ 20.10	5th \$ 28.02	6th \$ 30.47	7th \$ 33.72	8th \$ 36.27	9th \$ 38.77	10th \$ 41.29
8/01/2021 1st \$ TBD	2nd \$ TBD	3rd \$ TBD	4th \$ TBD	5th \$ TBD	6th \$ TBD	7th \$ TBD	8th \$ TBD	9th \$ TBD	10th \$ TBD 4-137-SE
Sprinkler	Fitter								01/01/2022
JOB DESC	CRIPTION S	orinkler Fitter					DISTRICT	1	
ENTIRE C	OUNTIES	n, Rockland, S	Sullivan Ulster	Westchester					
WAGES Per hour	inge, i alla	07/01/202		,					
Sprinkler Fitter		\$ 47.19							
SUPPLEM Per hour	ENTAL BEN	EFITS							
Journeypers	son	\$ 28.09							
OVERTIMI See (B, E, C	E PAY ହ) on OVERTII	ME PAGE							
the double t day shall be	ime rate. Whe at the double RED APPRE	See (5, 6) o s on Sunday, t n a holiday fall time rate.		AGE londay shall b					day shall be at rmed on either
One Half Ye	ear terms at the	e following wag	ge.						
1st \$ 22.67	2nd \$ 25.19	3rd \$ 27.46	4th \$ 29.98	5th \$ 32.50	6th \$ 35.02	7th \$ 37.54	8th \$ 40.05	9th \$ 42.57	10th \$ 45.09
Supplement	tal Benefits pe	r hour							
1st \$ 8.27	2nd \$ 8.27	3rd \$ 19.22	4th \$ 19.22	5th \$ 19.47	6th \$ 19.47	7th \$ 19.47	8th \$ 19.47	9th \$ 19.47	10th \$ 19.47 1-669.2
Teamster	- Building /	Heavy&High	way						01/01/2022
JOB DESCRIPTION Teamster - Building / Heavy&Highway ENTIRE COUNTIES Putnam, Westchester						DISTRICT	8		
WAGES GROUP A: Towers, Ce GROUP AA	Straight Truck ment (all types .: Tack Coat	s (6-wheeler a s), Suburban, S							uator, Light

GROUP B: Tractor & Trailers (all types). GROUP BB: Tri-Axle,14 Wheeler GROUP C: Low Boy (carrying equipment).

GROUP D: Fuel Trucks, Tire Trucks. GROUP E: Off-road Equipment (over 40 tons): Athey Wagons, Belly Dumps, Articulated Dumps, Trailer Wagons. GROUP F: Off-road Equipment (over 40 tons) Euclid, DJB. GROUP G: Off-road Equipment (under 40 tons) Athey Wagons, Belly Articulated Dumps, Trailer Wagons. GROUP H: Off-road Equipment(under 40 tons), Euclid. GROUP HH: Off-road Equipment(under 40 tons) D.J.B. GROUP I: Off-road Equipment(under 40 tons) Darts. GROUP II: Off-road Equipment(under 40 tons) RXS.

WAGES:(per hour)

07/01/2021

\$ 42.47*
45.27*
43.09*
42.59*
45.22*
42.92*
43.47*
44.47*
43.22*
43.84*
44.22*
43.97*
44.34*

* To calculate premium wage, subtract \$.20 from the hourly wage.

Note: Fuel truck operators on construction sites addit. \$5.00 per day. For work on hazardous/toxic waste site addit. 20% of hourly rate.

Shift Differential: When mandated by the contracting agency, DOT, or any governmental agency contracts shall receive a shift differential of fifteen (15%) above the wage rate.

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

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: Journeyworker

First 40 hours	\$ 33.64
41st-45th hours	15.18
Over 45 hours	0.26

OVERTIME PAY

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

HOLIDAY Paid:

Paid:	See (5, 6, 8, 9, 15, 25) on HOLIDAY PAGE
Overtime:	See (5, 6, 8, 9, 15, 25) on HOLIDAY PAGE

8-456

01/01/2022

Welder

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 07/01/2021

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 12240REQUEST FOR WAGE AND SUPPLEMENT INFORMATION As Required by Articles 8 and 9 of the NYS Labor LawFax (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 I	Firm Public Work District Office Date:							
A. Public Work Contract to be let by: (Enter Data Pertaining to C								
1. Name and complete address [(Check if new or change) Telephone: () Fax: () E-Mail:	2. NY State Units (see Item 5) 07 City 01 DOT 08 Local School District 02 OGS 09 Special Local District, i.e., Fire, Sewer, Water District 03 Dormitory Authority 10 Village 04 State University 11 Town 05 Mental Hygiene 12 County Facilities Corp. 13 Other Non-N.Y. State 06 OTHER N.Y. STATE UNIT (Describe)							
 3. SEND REPLY TO □ check if new or change) Name and complete address: Telephone:() Fax: () 	 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 OFFICE USE ONLY THIS PROJECT : 							
B. PROJECT PARTICULARS								
5. Project Title Description of Work	Eocation 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 9. Has this project been reviewed for compliance with the Wick 	 8. OCCUPATION FOR PROJECT : Construction (Building, Heavy Highway/Sewer/Water) Tunnel Residential Landscape Maintenance Elevator maintenance Exterminators, Fumigators Fire Safety Director, NYC Only S Law involving separate bidding? YES NO 							
10.Name and Title of Requester	Signature							



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, <u>or</u> under NYS Workers' Compensation Law Section 141-b, access the database at this link: <u>https://applications.labor.ny.gov/EDList/searchPage.do</u>

For inquiries where WCB is listed as the "Agency", please call 1-866-546-9322

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	NYC	****9839	A.J.S. PROJECT MANAGEMENT, INC.		149 FIFTH AVENUE NEW YORK NY 10010	12/29/2016	12/29/2021
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		ANITA SALERNO		158 SOLAR ST SYRACUSE NY 13204	01/07/2019	01/07/2024
DOL	NYC		ANTHONY J SCLAFANI		149 FIFTH AVE NEW YORK NY 10010	12/29/2016	12/29/2021
DOL	DOL		ANTHONY PERGOLA		3 WEST MAIN ST/SUITE 208 ELMSFORD NY 10323	01/23/2017	01/23/2022
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	DOL		ARVINDER ATWAL		65 KENNETH PLACE NEW HYDE PARK NY 11040	07/19/2017	07/19/2022
DOL	NYC	*****6683	ATLAS RESTORATION CORP.		35-12 19TH AVENUE ASTORIA NY 11105	08/02/2017	08/02/2022
DOL	NYC	*****5532	ATWAL MECHANICALS, INC		65 KENNETH PLACE NEW HYDE PARK NY 11040	07/19/2017	07/19/2022
DOL	NYC	*****2591	AVI 212 INC.		260 CROPSEY AVENUE APT 11GBROOKLYN 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	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	DA		BOLTER CONSTRUCTION		2549 LINDEN STREET BELLMORE NY 11710	12/22/2016	12/22/2021
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 BALDWINSVILLE NY 13027	02/03/2020	01/09/2023
DOL	DOL	****8809	C.B.E. CONTRACTING CORPORATION		310 MCGUINESS BLVD GREENPOINT NY 11222	03/07/2017	03/07/2022
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
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 KISCSO 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 BALDWINSVILLE NY 13027	02/03/2020	02/03/2025
DOL	DOL		CARMENA RACHETTA		8531 OSWEGO ROAD BALDWINSVILLE 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 CONTRACTIN G AND CARMODY CONTRACTIN G 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	DOL	*****8809	CBE CONTRACTING CORP		142 EAST MARKET STREET LONG BEACH NY 11561	03/07/2017	03/07/2022
DOL	AG		CESAR J. AGUDELO		81-06 34TH AVENUE APT. 6EJACKSON 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 PAPASTEFANOU A/K/A CHRIS PAPASTEFANOU		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 DOUGLASTON 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	DOL		DEBBIE STURDEVANT		29 MAPLEWOOD DRIVE BINGHAMTON NY 13901	02/21/2017	02/21/2022
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		DF CONTRACTORS OF ROCHESTER, INC.		1835 DAANSEN RD. PALMYRA NY 14522	05/16/2017	05/16/2022
DOL	DOL		DF CONTRACTORS, INC.		1835 DAANSEN RD. PALMYRA NY 14522	05/16/2017	05/16/2022
DOL	NYC		DIMITRIOS TSOUMAS		35-12 19TH AVENUE ASTORIA NY 11105	08/02/2017	08/02/2022
DOL	DOL		DOMENICO LAFACE		8531 OSWEGO RD BALDWINSVILLE NY 13027	02/03/2020	01/09/2023
DOL	DOL	****3242	DONALD R. FORSAY	DF LAWN SERVICE	1835 DAANSEN RD. PALMYRA NY 14522	05/16/2017	05/16/2022
DOL	DOL		DONALD R. FORSAY		1835 DAANSEN RD. PALMYRA NY 14522	05/16/2017	05/16/2022
DOL	NYC		DUARTE LOPES		66-05 WOODHAVEN BLVD. STE 2REGO PARK NY 11374	04/20/2017	04/20/2022
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 GILLETT PA 16923	03/12/2018	03/12/2023
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 BALDWINSVILLE 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	NYC		GREAT ESTATE CONSTRUCTION, INC.		327 STAGG ST BROOKLYN NY 11206	10/10/2017	10/10/2022
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	****7993	JBS DIRT, INC.		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
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 FOLEY		66-05 WOODHAVEN BLVD. STE 2REGO PARK NY 11374	04/20/2017	04/20/2022
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	09/29/2021	09/29/2026
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL	*****5062	K R F SITE DEVELOPMENT INC		375 LAKE SHORE DRIVE PUTNAM VALLEY NY 10579	01/23/2017	01/23/2022
DOL	NYC		K.S. CONTRACTING CORP.		29 PHILLIP DRIVE PARSIPPANY NJ 07054	02/13/2017	02/13/2022
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

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DOL	DOL		KENNETH FIORENTINO	375 LAKE SHORE DRIVE PUTNAM VALLEY NY 10579	01/23/2017	01/23/2022
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	****4505	LARAPINTA ASSOCIATES INC	29 MAPLEWOOD DRIVE BINGHAMTON NY 13901	02/21/2017	02/21/2022
DOL	DOL		LAVERN GLAVE	161 ROBYN RD MONROE NY 10950	01/30/2018	01/30/2023
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	06/24/2016	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	06/24/2016	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	01/17/2017	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/2022
DOL	DOL	*****4388	LEN.J CONSTRUCTION, LLC	PO BOX 10007 ALBANY NY 12201	08/14/2017	09/19/2022
DOL	DOL		LEROY NELSON JR	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/2022
DOL	DOL		LEROY NELSON JR	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/202
DOL	DOL		LEROY NELSON JR	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/202
DOL	DOL		LEROY NELSON JR	PO BOX 10007 ALBANY NY 12201	09/19/2017	09/19/2022
DOL	DOL		LEROY NELSON JR	PO BOX 10007 ALBANY NY 12201	08/14/2017	08/14/2022
DOL	DOL		LEROY NELSON JR	PO BOX 10007 ALBANY NY 12201	01/17/2017	09/19/2022
DOL	DA	*****4460	LONG ISLAND GLASS & STOREFRONTS, LLC	4 MANHASSET TRL RIDGE NY 11961	09/06/2018	09/06/202
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	05/17/2020
DOL	NYC		LUBOMIR PETER SVOBODA	27 HOUSMAN AVE STATEN ISLAND NY 10303	12/26/2019	12/26/2024
DOL	NYC		M & L STEEL & ORNAMENTAL IRON CORP.	27 HOUSMAN AVE STATEN ISLAND NY 10303	12/26/2019	12/26/2024
DOL	DOL		M ANVER BEIG	142 EAST MARKET STREET LONG BEACH NY 11561	03/07/2017	03/07/202
DOL	DOL		M. ANVER BEIG	142 EAST MARKET STREET LONG BEACH NY 11561	03/07/2017	03/07/2022
DOL	DOL	*****2196	MAINSTREAM SPECIALTIES, INC.	11 OLD TOWN RD SELKIRK NY 12158	02/02/2021	02/02/2020
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	08/19/299
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	03/10/202
DOL	NYC		MARTINE ALTER	1010 NORTHERN BLVD. GREAT NECK NY 11021	03/09/2017	03/09/2022
DOL	DOL		MARVIN A STURDEVANT	29 MAPLEWOOD DRIVE BINGHAMTON NY 13901	02/21/2017	02/21/202
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		MCLEAN "MIKKI BEANE"		1229 JAMES STREET SYRACUSE NY 13203	05/02/2017	05/02/2022
DOL	DOL		MCLEAN "MIKKI" DRAKE		1229 JAMES STREET SYRACUSE NY 13203	05/02/2017	05/02/2022
DOL	DOL		MCLEAN M DRAKE-BEANE		1229 JAMES STREET SYRACUSE NY 13203	05/02/2017	05/02/2022
DOL	DOL	*****9445	MCLEAN M WALSH	ELITE PROFESSION AL PAINTING OF CNY	1229 JAMES STREET SYRACUSE NY 13203	05/02/2017	05/02/2022
DOL	DOL	****9445	MCLEAN M WALSH	ELITE PROFESSION AL PAINTING OF CNY	1229 JAMES STREET SYRACUSE NY 13203	05/02/2017	05/02/2022
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	NYC	*****3826	MOVING MAVEN OF NY, INC.		1010 NORTHERN BLVD. GREAT NECK NY 11021	03/09/2017	03/09/2022
DOL	NYC	*****3550	MOVING MAVEN, INC		1010 NORTHERN BLVD. GREAT NECK NY 11021	03/09/2017	03/09/2022
DOL	AG		MSR ELECTRICAL CONSTRUCTION CORP.		31 BAY ST BROOKLYN NY 11231	03/28/2018	03/28/2023
DOL	DOL		MUHAMMAD BEIG		142 EAST MARKET STREET LONG BEACH NY 11561	03/07/2017	03/07/2022
DOL	DOL		MUHAMMAD BEIG		142 EAST MARKET STREET LONG BEACH NY 11561	03/07/2017	03/07/2022
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	09/29/2021	09/29/2026
DOL	DOL	****7429	NICOLAE I. BARBIR	BESTUCCO CONSTRUCTI ON, INC.	444 SCHANTZ ROAD ALLENTOWN PA 18104	09/17/2020	09/17/2025
DOL	DOL	*****0065	NORTHEAST LANDSCAPE AND MASONRY ASSOC		3 WEST MAIN ST/SUITE 208 ELMSFORD NY 10523	01/23/2017	01/23/2022
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	NYC		PARESH SHAH		29 PHILLIP DRIVE PARSIPPANY NJ 07054	02/13/2017	02/13/2022
DOL	DOL		PAULINE CHAHALES		935 S LAKE BLVD MAHOPAC NY 10541	03/02/2021	03/02/2026
DOL	NYC	*****9422	PELIUM CONSTRUCTION, INC.		22-33 35TH ST. ASTORIA NY 11105	12/30/2016	12/30/2021
DOL	DOL		PETER M PERGOLA		3 WEST MAIN ST/SUITE 208 ELMSFORD NY 10523	01/23/2017	01/23/2022
DOL	DOL		PETER STEVENS		11 OLD TOWN ROAD SELKIRK NY 12158	02/02/2021	02/02/2026
DOL	DOL		PIERRE LAPORT		224 COUNTY HIGHWAY 138 BROADALBIN NY 12025	03/07/2017	03/07/2022
DOL	DOL	*****1543	PJ LAPORT FLOORING INC		224 COUNTY HIGHWAY 138 BROADALBIN NY 12025	03/07/2017	03/07/2022
DOL	DOL	****0466	PRECISION BUILT FENCES, INC.		1617 MAIN ST PEEKSKILL NY 10566	03/03/2020	03/03/2025

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DOL	NYC	****4532	PROFESSIONAL PAVERS CORP.		66-05 WOODHAVEN BLVD. REGO PARK NY 11374	04/20/2017	04/20/2022
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	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
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 BISSESAR		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	NYC		ROBERT HOHMAN		149 FIFTH AVE NEW YORK NY 10010	12/29/2016	12/29/2021
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		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		RYAN ALBIE		21 S HOWELLS POINT ROAD BELLPORT NY 11713	02/21/2017	02/21/2022
DOL	DOL	****3347	RYAN ALBIE CONTRACTING		21 S HOWELLS POINT ROAD BELLPORT NY 11713	02/21/2017	02/21/2022
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	DOL	*****9751	SCW CONSTRUCTION		544 OLD ROUTE 23 ACRE NY 12405	02/14/2017	02/14/2022
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
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	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	****9751	STEPHEN C WAGAR		544 OLD ROUTE 23 ACRE NY 12405	02/14/2017	02/14/2022
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		STEVEN TESTA		50 SALEM STREET - BLDG B LYNNFIELD MA 01940	01/23/2017	01/23/2022
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	****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	*****5570	TESTA CORP		50 SALEM STREET - BLDG B LYNNFIELD MA 01940	01/23/2017	01/23/2022

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	****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	****7361	VIABLE HOLDINGS, INC.	MOVING MAVEN	1010 NORTHERN BLVD. GREAT NECK NY 11021	03/09/2017	03/09/2022
DOL	NYC	*****2426	VICKRAM MANGRU	VICK CONSTRUCTI ON	21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	NYC		VICKRAM MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DOL		VICTOR ALICANTI		42-32 235TH ST 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 C WATKINS		1229 JAMES STREET SYRACUSE NY 13203	05/02/2017	05/02/2022
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
DOL	NYC		ZAKIR NASEEM		30 MEADOW ST BROOKLYN NY 11206	10/10/2017	10/10/2022
DOL	NYC	*****8277	ZHN CONTRACTING CORP		30 MEADOW ST BROOKLYN NY 11206	10/10/2017	10/10/2022

TABLE OF CONTENTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS 000107 SEALS PAGE - REVISED JANUARY 12, 2022 003126 EXISTING HAZARDOUS MATERIAL INFORMATION **DIVISION 01 – GENERAL REQUIREMENTS** 011000 SUMMARY – REVISED JANUARY 12, 2022 012600 CONTRACT MODIFICATION PROCEEDURES 012900 PAYMENT PROCEDURES 012300 ALTERNATES – REVISED JANUARY 12, 2022 013300 SUBMITTAL PROCEDURES 014000 QUALITY REQUIREMENTS TEMPORARY FACILITIES AND CONTROLS 015000 **DIVISION 02 – DEMOLITION** 024119 SELECTIVE DEMOLITION **DIVISION 04 – MASONRY** 044313.13 ANCHORED STONE MASONRY VENEER **DIVISION 06 – WOOD AND PLASTICS** 061000 ROUGH CARPENTRY 064116 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS **DIVISION 07– THERMAL AND MOISTURE PROTECTION** 072100 THERMAL INSULATION 072600 VAPOR RETARDERS 077100 **ROOF SPECIALTIES** 079200 JOINT SEALANTS **DIVISION 08 – DOORS AND WINDOWS** 081113 HOLLOW METAL DOORS AND FRAMES 083113 ACCESS DOOR AND FRAMES VINYL WINDOWS 085313 088000 GLAZING MIRRORS 088300 **DIVISION 09 – FINISHES** 092216 NON-STRICTURAL METAL FRAMING 092300 **GYPSUM PLASTERING** 092900 **GYPSUM BOARD** 093013 **CERAMIC TILING** 096723 **RESINOUS FLOORING DIVISION 10 – SPECIALTIES** 102113.19 PLASTIC TOILET COMPARTMENTS 102123 CUBICLE CURTAINS AND TRACK 102800 TOILET, BATH, AND LAUNDRY ACCESSORIES 105113 METAL LOCKERS **DIVISION 12 – FURNISHINGS** 123623.13 PLASTIC-LAMINATE-CLAD COUNTERTOPS **DIVISION 14 – CONVEYING SYSTEMS** 144200 WHEELCHAIR LIFTS END OF TABLE OF CONTENTS

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DOCUMENT 000107 - SEALS PAGE

1.1 DESIGN PROFESSIONALS OF RECORD

- A. Architect:
 - 1. Andrew J. Petrosky.
 - 2. NYS 025224.
 - 3. Responsible for Divisions 01-49 Sections except where indicated as prepared by other design professionals of record.
- B. Structural Engineer:
 - 1. Michael J. Simmons.
 - 2. NYS 074808.
 - 3. Responsible for Divisions 03, 04 and 05 except Section 044313.13.
- C. Plumbing Engineer:
 - 1. Joseph A. Merlino.
 - 2. NYS 103317.
 - 3. Responsible for Division 22 Sections.
- D. HVAC Engineer:

E.

- 1. Jeremy M. Reiss.
- 2. NYS 090231.
- 3. Responsible for Division 23 Sections.
- Electrical Engineer:
 - 1. Tyler J. Rich.
 - 2. NYS 104386.
 - 3. Responsible for Divisions 26 and 27 Sections.

END OF DOCUMENT 000107









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DOCUMENT 003126 - EXISTING HAZARDOUS MATERIAL INFORMATION

1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

- A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information but are not a warranty of existing conditions. This Document and its attachments are not part of the Contract Documents.
- B. An existing asbestos report for Project, prepared by Applied Technology Services, Inc., dated September 1, 2010 is available for viewing as appended to this Document.
- C. Related Requirements:
 - 1. "Instructions to Bidders" for the Bidder's responsibilities for examination of Project site and existing conditions.

END OF DOCUMENT 003126

003126 - EXISTING HAZARDOUS MATERIAL INFORMATION APPENDIX

APPLIED TECHNOLOGY SERVICES, INC. 481 Main Street New Rochelle, NY 10801 (914) 654-0080 / (914) 654-1332 Fax

PRE-DEMOLITION SURVEY REPORT

FOR

CITY PARK MAINTENANCE BUILDING NEW ROCHELLE, NEW YORK 10804

Prepared for:

GARY SORGE STANTEC 2321 WHITNEY AVENUE HAMDEN, CT, 06518

ATS JOB # A10103

September 1, 2010

PRE-DEMOLITION SURVEY REPORT

On August 18, 2010, Applied Technology Services, Inc. (ATS) conducted apredemolition inspection at the Maintenance Building in City Park, New Rochelle, New York The inspection, to identify possible asbestos, lead, mold and PCB presence, was requested by Gary Sorge, of Stantec Construction, in conjunction with the planned demolition of the structure.

The inspection was performed by Steve VanderWoude, certified NYS DOL Asbestos Inspector (# 91-04755), EPA Lead Based Paint Professional (NY-R-9821-2), and Institute of Inspection Cleaning and Restoration Certification (IICRC) Water Damage Restoration Applied Microbial Remediation (153887), and George Lee .NYS DOL Asbestos Inspector (# 07-14381)

ASBESTOS

The structure has a main building (center) and two annexes, a Men's Room and a Ladie's Room. It is a stone building with a shingle roof. Most of the original windows have been replaced with vinyl double hung windows, with the exception of some grade level windows which have been boarded over for security reasons. Interior walls are either plaster or gypsum wallboard. Floors are cement. Heating pipes are uninsulated.

Samples were taken of all suspect materials that would be affected by the demolition and were analyzed via Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM) when necessary.

The only interior building component that contained asbestos was the exhaust piping for the space heaters. This was visible on the second floor rear room where the piping was sampled and may also possibly exist between the ceiling and the roof of the annexes where the other two space heaters were located.

All roof samples were negative except for the flashing cement (e.g. vent and chimney) and minimal patching along the gable wall.

Please refer to Table 1 on the next page for a complete list of materials sampled and results. Asbestos containing materials (ACM) are materials with an asbestos content greater than 1% and are printed in **bold type**.

The asbestos containing materials in this structure must be removed prior to any demolition, or disturbance which might result in the release of fibers.

<u>LEAD</u>

Samples of paint were taken in various areas of the structure which indicated the presence of lead based paint. The presence of the lead based paint means that during the demolition of the structure certain work practices, such as open burning, dry sanding, or use of a heat gun above 1100 degrees Fahrenheit will not be allowed.

There are two different Standards for treatment of lead based paint. The first is Housing Urban Development (HUD) which defines lead based paint as having more than 0.5% lead content. The other authority is OSHA which defines lead based paint as paint having any lead content.

Federal EPA and NYS Department of Environmental Conservation (DEC) regulate the disposal of lead and waste stream sampling would determine the disposal site and treatment required. This could be accomplished by taking samples of the material in the dumpsters prior to their removal from the site.

Results of sampling are listed in Table 2.

<u>PCB</u>

A PCB samples was taken from the glazing compound from the rear window of the left side annex and results are indicated in Table 3

According to the Federal EPA, this concentration is not regulated and therefore its treatment/disposal is not governed by regulations.

MOLD

Visible mold was seen in the damaged area in the rear of the second floor where the roof and the ceiling meet. However, the damage is local and would not be of the scope requiring a full scale mold remediation. If workers were going to be in the immediate area performing the demolition (as in saving trimwork, mouldings, or objects of architectural interest, they should be properly trained and equipped with High Efficiency Particulate Air (HEPA) respirators and Protective Personal Equipment (PPE) to reduce their risk of inhaling contaminated air. If the demolition is being performed by a machine operator who is not in the immediate area dust control would be more important to individual safety.

Copies of licenses and laboratory analyses are included with this report.

If you have any questions please contact our office.

Steve VanderWoude Vice President Applied Technology Services, Inc..

ATS JOB # A10103 City Park, Maintenance Building

TABLE 1 - BULK SAMPLING RESULTS

<u>Material</u>	<u>Location</u>	<u>Asbestos %</u>	<u>Sample #</u>
Flashing Cement	Roof, Vent	12.1 %	16-081810-18
Exhaust Duct	2 nd fl, Center Heater	4.2 / 16.7 %	16-081810-19
Exhaust Duct	2 nd fl, Center Heater	NA/PS	16-081810-20
GWB, Plaster, White	2 nd fl, Center L. Heater	NAD	16-081810-21
GWB, Plaster, Grey	2 nd fl, Center L. Heater	NAD	16-081810-21
WJC	2 nd fl, Center R. Heater	NAD	16-081810-22
WJC	2 nd fl, Center R. Heater	NAD	16-081810-23
Adhesive	2 nd fl, Wood Panel	NAD	16-081810-24
Adhesive	2 nd fl, Wood Panel	NAD	16-081810-25
GWB, Plaster, White	2 nd fl, Ceiling @ door	NAD	16-081810-26
GWB, Plaster, Grey	2 nd fl, Ceiling @ door	NAD	16-081810-26
GWB, Plaster, White	Center Hall	Trace	16-081810-27
Glazing	L. Annex Rear	Trace	16-081810-28
Glazing	L. Annex Rear	NAD	16-081810-29
Green Shingle	R. Annex Rear	NAD	16-081810-01
Building Paper	R. Annex Rear	NAD	16-081810-03
Green Shingle	L. Annex Rear	NAD	16-081810-05
Building Paper	L. Annex Rear	NAD	16-081810-07
Shingle, Lower	Center	NAD	16-081810-11
Shingle, Lower	Center	NAD	16-081810-12
Building Paper L	Center	NAD	16-081810-15
Building Paper L	Center	NAD	16-081810-16
Flashing Cement	Chimney	NA/PS	16-081810-17

NAD:No Asbestos Detected TR: Trace-Less than 1% NA/PS: Not analyzed/Positive Stop

ACM are materials with an asbestos content greater than 1%.

TABLE 2 – LEAD PAINT

Location	Lead %	<u>I.D.</u>
Center 1 L. Front	0.36 % wt	01
Center 2 Pipe	0.39 % wt	02
Center 2 Porch	0.023 % wt	03
Center 1 R. Side	0.52 % wt	04
R Annex, 1 Ext Dr Fr	8.9 % wt	05
L Annex, 1 Ext Dr Fr	7.6 % wt	06
Center 1 Center Hall	11 % wt	07

TABLE 3 – PCB's

<u>Test Name</u>	<u>PCB %</u>	Method
PCB-1016	<52 ppb	SW 8082
PCB-1221	<52 ppb	SW 8082
PCB-1232	<52 ppb	SW 8082
PCB-1242	<52 ppb	SW 8082
PCB-1248	<52 ppb	SW 8082
PCB-1254	<52 ppb	SW 8082
PCB-1260	<52 ppb	SW 8082
PCB-1262	<52 ppb	SW 8082
PCB-1268	<52 ppb	SW 8082

STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE



STEVE VANDERWOUDE CLASS(EXPIRES) C ATEC(02/11) D INSP(02/11) E MGPL(02/11) G SUPR(02/11) H PM (02/11) IPD (02/11)

DMV# 152481001 MUST BE CARRIED ON ASBESTOS PROJECTS STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE GEORGE CLEEIN



CLASS(EXPIRES) C ATEC(03/11) D INSP(03/11) H PM (03/11)

DMV# 700831598 MUST BE CARRIED ON ASBESTOS PROJECTS

NEW YORK STATE - DEPARTMENT OF LABOR

DIVISION OF SAFETY AND HEALTH LICENSE AND CERTIFICATE UNIT STATE CAMPUS BUILDING 12 ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

Applied Technology Services, Inc Suite 503 481 Main Street

New Rochelle, NY 10801

FILE NUMBER: 99-0408 LICENSE NUMBER: 28894 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 04/15/2010 EXPIRATION DATE: 05/31/2011

Duly Authorized Representative - Sophie E Vanderwoude:

CM

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (4-07)

Maureen A. Cox, Director FOR THE COMMISSIONER OF LABOR SECTION 011000 - SUMMARY

- PART 1 GENERAL
- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Contractor's use of site and premises.
 - 4. Work restrictions.
 - 5. Specification and Drawing conventions.
 - B. Related Requirements:
 - 1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.
- 1.2 PROJECT INFORMATION
 - A. Project Identification: 1923 Building Renovation Flower Park.
 - 1. Project Location: 491 5th Avenue, New Rochelle, NY, 10801.
 - B. Owner: City of New Rochelle, City Hall, 515 North Avenue, New Rochelle, NY 10801.
 - 1. Owner's Representative: Vincent Parise, Deputy Commissioner Parks & Recreation Department. <u>vparise@newrochelleny.com</u>

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the renovation of a 3,000 square foot stone masonry park facility. The project will consists of Four (4) Phases of which <u>only Phase 1 shall be considered for this bid.</u>

Phase 2 renovation is limited to the first floor for ADA compliance for the City of New Rochelle parks and recreation staff and coaches and sports officials. It will consist of removal of existing partitions, upgrade existing toilet, shower, removal of second floor slab for future installation of ADA lift, installation of knee wall, power and gate for ADA lift, concrete pad for mechanical unit and security fence, new HVAC system for the first floor, new exhaust system for the first floor toilet room, new lighting and power for the first floor (interior only), and new plumbing piping for the first floor fixtures.

Phase 3 renovation will consist of installation of ADA lift.

Phase 4 renovation will consists of installation of new sidewalk, stair, partial wall and handrails to first floor.

- B. Phase 1 as defined by the contract documents will provide accessible locker rooms for intermural and college teams on the ground floor.
 - 1. Specific Aspects of the work in Phase 1 include; but are not limited to:
 - a. Installation of masonry walls, concrete work and door associated with ADA wheelchair lift. (Section of second floor removal and knee wall for ADA lift to be installed under Phase 2. ADA lift to be installed under Phase 3)
 - b. Reconfiguration of restrooms to accommodate accessible restroom and shower facilities.
 - c. Removal of load bearing walls to create team room/locker room, removal of existing partitions, plumbing fixtures, toilet partitions and finishes. Addition of new lockers, benches, finishes, receptacles, and light fixtures. Modified routing for new supply ductwork. (Alternate 1)
 - d. Replacement of windows and existing window glazing.
 - e. Exterior wall infill to match existing adjacent finish.
 - f. Extensive building systems renovations and replacements.
 - g. New heating and ventilating system for the ground floor.
 - h. New exhaust system for each ground floor toilet room.
 - i. New lighting and power for the ground floor.
 - j. New lighting for the first floor (exterior only).
 - k. Relocated domestic hot water heater.
 - I. New plumbing piping for the ground floor fixtures.
- C. Type of Contract:
 - 1. Project will be constructed under a single prime contract.
 - 2. All wages paid for work performed under this contract shall be per the Prevailing Wage Schedule established by the New York State Department of Labor, for General Construction Projects undertaken in Westchester County

1.4 CONTRACT SCHEDULE AND REQUIRED MILESTONES

- A. Deviations from the schedule indicated in the Invitation to Bidders must be submitted, reviewed and approved by Owner and justified by documentation of specific hardships, including but not limited to:
 - 1. Extreme weather conditions
 - 2. Material availability
 - a. Issues related to material availability to be brought to the attention of Owner and Architect during shop drawing development and submittal phase and alternative sources, materials, and methodology proposed and reviewed to mitigate schedule impact.

1.5 CONTRACTOR'S USE OF SITE AND PREMISES

A. Unrestricted Use of Site: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.

1.6 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- A. Noise, Vibration, Dust: Coordinate operations that may result in high levels of noise, vibration, and dust occupancy with Owner by identifying in project schedule and notifying in advance.
 - 1. Dust: Operations generating dust that could carry beyond project boundary shall employ dust control measures to mitigate
- B. Smoking and Controlled Substance Restrictions: Use of tobacco products, alcoholic beverages, and other controlled substances on Owner's property is not permitted.

1.7 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specification Notes. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

SECTION 012300 - ALTERNATES

GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Add Alternate No. 1: Renovation of locker rooms at first floor.

ALTERNATES

- 1. Base Bid: The base bid scope of work is as outlined in the construction documents excluding add alternates 1.
- 2. Alternate: Alternate 1 includes the renovation of locker room 102 & 109 as indicated on Drawings AD101 & A101. Including the removal of existing partitions, plumbing fixtures, toilet partitions and finishes. Addition of new lockers, benches, finishes, receptacles, and light fixtures. Modified routing for new supply ductwork.

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
 - 1. Section 012500 "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.

1.3 MINOR CHANGES IN THE WORK

A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710.

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request or 10 calendar days, when not otherwise specified, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.

- 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
- 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
- 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
- 4. Include costs of labor and supervision directly attributable to the change.
- 5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

1.5 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Section 012600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.

1.3 DEFINITIONS

A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Architect at earliest possible date, but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Owner's name.
 - c. Owner's Project number.
 - d. Name of Architect.
 - e. Architect's Project number.
 - f. Contractor's name and address.
 - g. Date of submittal.
 - 2. Arrange schedule of values consistent with format of AIA Document G703.

- 3. Arrange the schedule of values in tabular form, with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or division.
 - b. Description of the Work.
 - c. Change Orders (numbers) that affect value.
- 4. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Provide multiple line items for principal subcontract amounts in excess of 10 percent of the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

- A. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
 - 1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 - 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 - 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
- B. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
 - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- C. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from subcontractors, sub-subcontractors, and suppliers for construction period covered by the previous application.
 - 1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 - 2. When an application shows completion of an item, submit conditional final or full waivers.
 - 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 - 4. Submit final Application for Payment with or preceded by conditional final waivers from every entity involved with performance of the Work covered by the application who is lawfully entitled to a lien.
 - 5. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 1. Administrative and procedural requirements for submittals.
- B. Related Requirements:
 - 1. Section 012900 "Payment Procedures" for submitting Applications for Payment and the schedule of values.

1.3 DEFINITIONS

A. Action Submittals: Written and graphic information that require Architect's responsive action

1.4 SUBMITTAL FORMATS

- A. Submittal Information: Include the following information in each submittal:
 - 1. Project name.
 - 2. Date.
 - 3. Name of Architect.
 - 4. Name of Contractor.
 - 5. Name of firm or entity that prepared submittal.
 - 6. Names of subcontractor, manufacturer, and supplier.
 - 7. Unique submittal number, including revision identifier.
 - 8. Other necessary identification.
 - 9. Signature of transmitter.
- B. Options: Identify options requiring selection by Architect.
- C. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in the Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those requested by Architect on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.
- D. Electronic Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.

New Rochelle 1923 Building Renovation - Flowers Park

1.5 SUBMITTAL PROCEDURES

- A. Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
 - 1. Email: Prepare submittals as PDF package and transmit to Architect by sending via email, copying Owner. Include PDF transmittal form. Include project identifying information in email subject line.
 - a. Architect will return annotated file. Annotate and retain one copy of file as a digital Project Record Document file.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. Review: Allow 3 business days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
- D. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
 - 1. Note date and content of previous submittal.
 - 2. Note date and content of revision in label or title block, and clearly indicate extent of revision.
 - 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- E. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- F. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.6 SUBMITTAL REQUIREMENTS

- A. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.

- e. Notation of dimensions established by field measurement.
- f. Relationship and attachment to adjoining construction clearly indicated.
- g. Seal and signature of professional engineer if specified.

1.7 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are insufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF file of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.
 - 2. Engineer performing delegated design shall be licensed in New York State.

1.8 ARCHITECT'S REVIEW

- A. Action Submittals: Architect will review each submittal, indicate corrections or revisions required, and return.
 - 1. PDF Submittals: Architect will indicate, via markup on each submittal, the appropriate action.
- B. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- C. Architect will discard submittals received from sources other than Contractor.
- D. Submittals not required by the Contract Documents will be returned by Architect without action.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

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SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specified tests, inspections, and related actions do not limit Contractor's other qualityassurance and quality-control procedures that facilitate compliance with the Contract Document requirements.
 - 2. Requirements for Contractor to provide quality-assurance and quality-control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.2 DEFINITIONS

- A. Experienced: When used with an entity or individual, "experienced" unless otherwise further described means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.
- B. Field Quality-Control Tests and Inspections: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
 - 1. Use of trade-specific terminology in referring to a Work result does not require that certain construction activities specified apply exclusively to specific trade(s).
- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria. Unless otherwise indicated, copies of reports of tests or inspections performed for other than the Project do not meet this definition.
- E. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) according to 29 CFR 1910.7, by a testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

- F. Source Quality-Control Tests and Inspections: Tests and inspections that are performed at the source; for example, plant, mill, factory, or shop.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall have the same meaning as testing agency.
- H. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- I. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Architect.

1.3 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Statement: Submit a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional, indicating that the products and systems are in compliance with performance and design criteria indicated. Include list of codes, loads, and other factors used in performing these services.

1.4 CONFLICTING REQUIREMENTS

- A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements is specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, inform the Architect regarding the conflict and obtain clarification prior to proceeding with the Work. Refer conflicting requirements that are different, but apparently equal, to Architect for clarification before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 INFORMATIONAL SUBMITTALS

- A. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility submitted to authorities having jurisdiction before starting work on the following systems:
 - 1. Seismic-force-resisting system, designated seismic system, or component listed in the Statement of Special Inspections.
 - 2. Main wind-force-resisting system or a wind-resisting component listed in the Statement of Special Inspections.
- B. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- C. Permits, Licenses, and Certificates: For Owner's record, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents established for compliance with standards and regulations bearing on performance of the Work.

1.6 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, telephone number, and email address of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.
 - 10. Record of temperature and weather conditions at time of sample taking and testing and inspection.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory inspector.
 - 13. Recommendations on retesting and re-inspecting.
- B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
 - 1. Statement on condition of substrates and their acceptability for installation of product.
 - 2. Statement that products at Project site comply with requirements.
 - 3. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.

- 4. Results of operational and other tests and a statement of whether observed performance complies with requirements.
- 5. Other required items indicated in individual Specification Sections.
- C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
 - 1. Statement that equipment complies with requirements.
 - 2. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 - 3. Other required items indicated in individual Specification Sections.

1.7 QUALITY ASSURANCE

- A. Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. As applicable, procure products from manufacturers able to meet qualification requirements, warranty requirements, and technical or factory-authorized service representative requirements.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.
- F. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- G. Testing and Inspecting Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspection indicated, as documented according to ASTM E329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.

- H. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- I. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:
 - 1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
 - c. Build laboratory mockups at testing facility using personnel, products, and methods of construction indicated for the completed Work.
 - d. When testing is complete, remove test specimens and test assemblies, and mockups; do not reuse products on Project.
 - 2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

1.8 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
 - 1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspection they are engaged to perform.
 - 2. Costs for retesting and re-inspecting construction that replaces or is necessitated by Work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that the Work complies with requirements.
 - 1. Engage a qualified testing agency to perform quality-control services.
 - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
 - 2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspection will be performed.
 - 3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.

- 4. Testing and inspection requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
- 5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- C. Retesting/Re-inspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and re-inspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- D. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 - 1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - 2. Determine the locations from which test samples will be taken and in which in-situ tests are conducted.
 - 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected Work complies with or deviates from requirements.
 - 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 - 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 - 6. Do not perform duties of Contractor.
- E. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 013300 "Submittal Procedures."
- F. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.
- G. Contractor's Associated Requirements and Services: Cooperate with agencies and representatives performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 - 3. Adequate quantities of representative samples of materials that require testing and inspection. Assist agency in obtaining samples.
 - 4. Facilities for storage and field curing of test samples.
 - 5. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - 6. Security and protection for samples and for testing and inspection equipment at Project site.

- H. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspection.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.9 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified testing agency to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, as indicated in the Statement of Special Inspections attached to this Section, and as follows:
 - 1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
 - 2. Notifying Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 - 3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect with copy to Contractor and to authorities having jurisdiction.
 - 4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 - 5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
 - 6. Retesting and re-inspecting corrected Work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Architect.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's and authorities' having jurisdiction reference during normal working hours.
 - 1. Submit log at Project closeout as part of Project Record Documents.

New Rochelle 1923 Building Renovation - Flowers Park

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspection, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

014000 - Quality Requirements Appendix, Statement of Special Inspections

Statement of Special Inspections

Project: 1923 Building Renovation Flower Park

Location: New Rochelle, NY

Owner: New Rochelle

Design Professional in Responsible Charge: Michael J. Simmons, P.E.

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines:

Structural

Mechanical/Electrical/Plumbing
 Other:

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: Periodic

Prepared by:

Michael J. Simmons, P.E. (type or print name)

Signature

<u>1/21/20</u> Date or [] per attached schedule.



Building Official's Acceptance:

Owner's Authorization:

Signature

Date

Signature

Date

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	PE/GE	Visually inspect soils below footings for adequate bearing capacity.

Cast-in-Place Concrete

lte	m	Agency # (Qualif.)	Scope
1.	Mix Design	ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2.	Reinforcement Installation	ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters.
3.	Concrete Placement	ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
8.	Sampling and Testing of Concrete	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064) with frequency as indicated on the drawings.

Masonry

Item	Agency # (Qualif.)	Scope
1. Mixing of Mortar and Grout	ICC-SMSI	Inspect proportioning, mixing and retempering of mortar and grout.
2. Installation of Masonry	ICC-SMSI	Inspect size, layout, bonding and placement of masonry units.
3. Mortar Joints	ICC-SMSI	Inspect construction of mortar joints including tooling and filling of head joints.
 Sampling and Testing of Masonry 	ICC-SMSI	<i>Test compressive strength of masonry construction, mortar and grout cube strength as defined on the drawings</i>
5. Anchors and Ties	ICC-SMSI	Inspect size, location, spacing and embedment of dowels, anchors and ties.

Structural Steel

Item	Agency # (Qualif.)	Scope
1. Structural Details	PE/SE	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

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 requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for work restrictions and limitations.

1.3 UTILITIES

- A. No utility services are active on site.
- B. Sanitary Services: Provide Portable Sanitary equipment (Port-A-John) for the use of on-site employees during active on-site operations. Remove when not in use. Lock when not on site.
- C. Water Service: Provide potable water for use of on-site employees during active on-site operations. Water for other uses as necessary, such as dust control, shall be provided by tanker truck.
- D. Electric Power Service: Provide portable generation as required to support construction operations.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. Fire Extinguishers: Provide three (3) portable, UL rated; ABC class fire exposure, dry chemical media Fire Extinguishers, 10 lb nominal capacity. Locate to be readily available to construction activities.

PART 3 - EXECUTION

3.1 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Tree and Protection: Install temporary fencing located as indicated on Drawing AS-100, primarily outside the drip line of the adjacent Copper Beech tree to protect from damage from construction operations.
- B. Site Enclosure Fence: The project site is currently enclosed by walls and fencing maintained by the Owner. Project Operations shall be contained by this boundary.
- C. Security Enclosure and Lockup: Existing site boundary fencing has a gate providing access on the north side. This gate is locked to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each workday.

3.2 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, or no later than Substantial Completion.

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected site elements.

1.2 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
 - 1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.3 PREINSTALLATION MEETINGS

A. Pre-demolition Conference: Conduct conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

- A. Engineering Survey: Submit engineering survey of condition of building.
- B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property. Indicate proposed locations and construction of barriers.
- C. Pre-demolition photographs or video.
- D. Inventory of items that have been removed and salvaged.

1.5 FIELD CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

- C. Hazardous Materials: It is expected that hazardous materials will be encountered in the Work.
 - 1. Hazardous materials will be removed by the contractor before start of the Work.
 - 2. If additional suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
- F. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.6 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. Arrange to shut off utilities with utility companies.
 - 3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
 - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.3 **PROTECTION**

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.4 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.

- 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
- 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
- 4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
- 5. Dispose of demolished items and materials promptly.
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 CLEANING

- A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- B. Burning: Do not burn demolished materials.
- C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

SECTION 044313.13 - ANCHORED STONE MASONRY VENEER

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:1. Stone masonry anchored to unit masonry backup.

1.2 ACTION SUBMITTALS

A. Product Data: For each variety of stone, stone accessory, and manufactured product.

B. Samples:

- 1. For each stone type indicated.
- 2. For each color of mortar required.

1.3 FIELD CONDITIONS

- A. Protection of Stone Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work.
- B. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.
 - 1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and above and will remain so until masonry has dried.
- C. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.1 OTHER STONE – Match Existing

- A. Varieties and Sources: Subject to compliance with requirements, available stone varieties that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Match Existing color, texture and pattern of existing stone.

2.2 MORTAR MATERIALS

- A. Portland Cement: ASTM C150/C150M, Type I or Type II, except Type III may be used for cold-weather construction; natural color or white cement may be used as required to produce mortar color indicated.
 - 1. Low-Alkali Cement: Not more than 0.60 percent total alkali when tested according to ASTM C114.
- B. Hydrated Lime: ASTM C207, Type S.
- C. Aggregate: ASTM C144 and as follows:
 - 1. For pointing mortar, use aggregate graded with 100 percent passing No. 16 sieve.
 - 2. Colored Aggregates: Natural-colored sand or ground marble, granite, or other sound stone; of color necessary to produce required mortar color.
- D. Water: Potable.

2.3 VENEER ANCHORS

- A. Materials:
 - 1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A1064/A1064M; with ASTM A153/A153M, Class B-2.
 - 2. Hot-Dip Galvanized-Steel Sheet: ASTM A1008/A1008M, cold-rolled, carbon-steel sheet, hot-dip galvanized after fabrication to comply with ASTM A153/A153M, Class B-2.
- B. Size: Sufficient to extend at least halfway, but not less than 1-1/2 inches, through stone masonry and with at least a 5/8-inch cover on exterior face.
- C. Adjustable Masonry-Veneer Anchors:
 - 1. General: Provide anchors that allow vertical adjustment but resist a 100-lbf load in both tension and compression perpendicular to plane of wall without deforming or developing play in excess of 1/16 inch.
 - 2. Fabricate sheet metal anchor sections and other sheet metal parts from 0.105-inch-thick steel sheet, galvanized after fabrication.
 - 3. Fabricate wire ties from 0.25-inch- diameter, hot-dip galvanized-steel wire unless otherwise indicated.
 - 4. Fabricate wire connector sections from 0.187-inch- diameter, hot-dip galvanized-steel wire.

2.4 EMBEDDED FLASHING MATERIALS

- A. Metal Flashing: Provide metal flashing, where flashing is exposed or partly exposed and where indicated, complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
 - 1. Stainless Steel: ASTM A240/A240M, Type 304, 0.016 inch thick.

- 2. Fabricate continuous flashings in sections 96 inches long minimum, but not exceeding 12 feet. Provide splice plates at joints of formed, smooth metal flashing.
- 3. Fabricate metal drip edges from stainless steel. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
- B. Flexible Flashing: For flashing unexposed to the exterior, use[**one of**] the following unless otherwise indicated:
 - 1. Copper-Laminated Flashing: 5-oz./sq. ft. copper sheet bonded with asphalt between two layers of glass-fiber cloth. Use only where flashing is fully concealed in masonry.
 - a. 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:
 - 1) Hohmann & Barnard, Inc.
 - 2) Wire-Bond.
 - 3) York Manufacturing, Inc.

2.5 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Premolded filler strips complying with ASTM D1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene.
- B. Cementitious Dampproofing: Cementitious formulation recommended by ILI and nonstaining to stone, compatible with joint sealants, and noncorrosive to veneer anchors and attachments.
- C. Weep/Vent Products: Use one of the following unless otherwise indicated:
 - 1. Wicking Material: Absorbent rope, made from cotton or UV-resistant synthetic fiber, 1/4 to 3/8 inch in diameter, in length required to produce 2-inch exposure on exterior and 18 inches in cavity behind stone masonry. Use only for weeps.
 - 2. Mesh Weep Holes/Vents: Free-draining mesh; made from polyethylene strands, full width of head joint and 2 inches high by thickness of stone masonry; in color selected from manufacturer's standard.
 - a. 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:
 - 1) CavClear/Archovations, Inc.
 - 2) Mortar Net Solutions.
- D. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. CavClear/Archovations, Inc.
 - b. Mortar Net Solutions.

- 2. Provide one of the following configurations:
 - a. Strips, not less than 1-1/2 inches thick and 10 inches wide, with dimpled surface designed to catch mortar droppings and prevent weep holes from being clogged with mortar.
 - b. Sheets or strips full depth of cavity and installed to full height of cavity.
 - c. Sheets or strips not less than 1 1/2 inch thick and installed to full height of cavity with additional strips 4 inches high at weep holes and thick enough to fill entire depth of cavity and prevent weep holes from being clogged with mortar.

2.6 MASONRY CLEANERS

A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar and grout stains, efflorescence, and other new construction stains from stone masonry surfaces without discoloring or damaging masonry surfaces; expressly approved for intended use by cleaner manufacturer and stone producer.

2.7 FABRICATION

- A. Select stone to produce pieces of thickness, size, and shape indicated, including details on Drawings and to match existing.
- B. Thickness of Stone: Provide thickness indicated, but not less than the following:
 - 1. Thickness: 4 inches plus or minus 1/4 inch.
- C. Finish exposed stone faces and edges to comply with requirements indicated for finish and to match approved samples.
 - 1. Finish: Match Existing
 - 2. Finish for Sills: Match Existing
 - 3. Finish for Lintels: Match Existing

2.8 MORTAR MIXES

- A. General: Do not use admixtures unless otherwise indicated.
 - 1. Do not use calcium chloride.
 - 2. Use portland cement-lime or masonry cement mortar unless otherwise indicated.
- B. Mortar for Stone Masonry: Comply with ASTM C270, Proportion Specification.
 - 1. Mortar for Setting Stone: Type S.
 - 2. Mortar for Pointing Stone: Type N.

PART 3 - EXECUTION

3.1 PREPARATION

3.2 INSTALLATION OF ANCHORED STONE MASONRY

- A. Anchor stone masonry to unit masonry with wire anchors unless otherwise indicated. Connect anchors to masonry joint reinforcement with vertical rods inserted through anchors and through eyes of masonry joint reinforcement projecting from unit masonry.
- B. Embed veneer anchors in mortar joints of stone masonry at least halfway, but not less than 1-1/2 inches, through stone masonry and with at least a 5/8-inch cover on exterior face.
- C. Space anchors not more than 18 inches o.c. vertically and 32 inches o.c. horizontally, with not less than one anchor per 2.67 sq. ft. of wall area. Install additional anchors within 12 inches of openings, sealant joints, and perimeter at intervals not exceeding 12 inches.
- D. Set stone in full bed of mortar with full head joints unless otherwise indicated. Build anchors into mortar joints as stone is set.
- E. Provide 1-inch cavity between stone masonry and backup construction unless otherwise indicated. Keep cavity free of mortar droppings and debris.
 - 1. Slope beds toward cavity to minimize mortar protrusions into cavity.
 - 2. Do not attempt to trowel or remove mortar fins protruding into cavity.
- F. Rake out joints for pointing with mortar to depth of not less than 3/4 inch before setting mortar has hardened. Rake joints to uniform depths with square bottoms and clean sides.

3.3 POINTING

- A. Prepare stone-joint surfaces for pointing with mortar by removing dust and mortar particles. Where setting mortar was removed to depths greater than surrounding areas, apply pointing mortar in layers not more than 3/8 inch deep until a uniform depth is formed.
- B. Point stone joints by placing and compacting pointing mortar in layers of not more than 3/8 inch deep. Compact each layer thoroughly and allow to it become thumbprint hard before applying next layer.
- C. Tool joints, when pointing mortar is thumbprint hard, with a smooth jointing tool to produce the following joint profile:
 - 1. Joint Profile: Concave.

3.4 ADJUSTING AND CLEANING

A. In-Progress Cleaning: Clean stone masonry as work progresses. Remove mortar fins and smears before tooling joints.

ANCHORED STONE MASONRY VENEER

- B. Final Cleaning: After mortar is thoroughly set and cured, clean stone masonry as follows:
 - 1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
 - 2. Test cleaning methods on mockup; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before cleaning stone masonry.
 - 3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent, polyethylene film, or waterproof masking tape.
 - 4. Wet wall surfaces with water before applying cleaner; remove cleaner promptly by rinsing thoroughly with clear water.
 - 5. Clean stone masonry by bucket and brush hand-cleaning method described in BIA Technical Note No. 20, Revised II, using job-mixed detergent solution.
 - 6. Clean stone masonry with proprietary acidic cleaner applied according to manufacturer's written instructions.

3.5 EXCESS MATERIALS AND WASTE

A. Excess Stone: Stack excess stone where directed by Owner for Owner's use.

END OF SECTION 044313.13

SECTION 061000 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

- 1. Wood blocking and nailers.
- 2. Wood furring.
- 3. Plywood backing panels.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product.

1.3 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.
- B. Evaluation Reports: For the following, from ICC-ES:
 - 1. Wood-preservative-treated wood.
 - 2. Fire-retardant-treated wood.
 - 3. Power-driven fasteners.
 - 4. Post-installed anchors.
 - 5. Metal framing anchors.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Grade lumber by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Factory mark each piece of lumber with grade stamp of grading agency.
 - 2. For exposed lumber indicated to receive a stained or natural finish, omit grade stamp and provide certificates of grade compliance issued by grading agency.
 - 3. Dress lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 19 percent unless otherwise indicated.

- C. Engineered Wood Products: Acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.
 - 1. Allowable design stresses, as published by manufacturer, shall meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with ground, Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.
 - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat items indicated on Drawings, and the following:
 - 1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
 - 2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
 - 3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
 - 4. Wood framing members that are less than 18 inches above the ground in crawlspaces or unexcavated areas.
 - 5. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
 - 1. Blocking.
 - 2. Nailers.
 - 3. Furring.
- B. Dimension Lumber Items: Construction or No. 2 grade lumber of any species.
- C. Concealed Boards: 19 percent maximum moisture content and any of the following species and grades:

- 1. Mixed southern pine or southern pine; No. 2 grade; SPIB.
- 2. Eastern softwoods; No. 2 Common grade; NeLMA.
- 3. Northern species; No. 2 Common grade; NLGA.
- 4. Western woods; Construction or No. 2 Common grade; WCLIB or WWPA.

2.4 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: Plywood, DOC PS 1, Exposure 1, C-D Plugged, in thickness indicated or, if not indicated, not less than 1/2-inch nominal thickness.

2.5 FASTENERS

- A. General: Fasteners shall be of size and type indicated and shall comply with requirements specified in this article for material and manufacture.
 - 1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M.
- B. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

2.6 METAL FRAMING ANCHORS

- A. Allowable design loads, as published by manufacturer, shall meet or exceed those of basis-ofdesign products. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency. Framing anchors shall be punched for fasteners adequate to withstand same loads as framing anchors.
- B. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A653/A653M, G60 coating designation.
 - 1. Use for interior locations unless otherwise indicated.
- C. Hot-Dip, Heavy-Galvanized Steel Sheet: ASTM A653/A653M; structural steel (SS), highstrength low-alloy steel Type A (HSLAS Type A), or high-strength low-alloy steel Type B (HSLAS Type B); G185 coating designation; and not less than 0.036 inch thick.

2.7 MISCELLANEOUS MATERIALS

- A. Sill-Sealer Gaskets: Glass-fiber-resilient insulation, fabricated in strip form, for use as a sill sealer; 1-inch nominal thickness, compressible to 1/32 inch; selected from manufacturer's standard widths to suit width of sill members indicated.
- B. Sill-Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch thick, selected from manufacturer's standard widths to suit width of sill members indicated.

- C. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch.
- D. Adhesives for Gluing Furring to Concrete or Masonry: Formulation complying with ASTM D3498 that is approved for use indicated by adhesive manufacturer.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- B. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction. Locate furring, nailers, blocking, and similar supports to comply with requirements for attaching other construction.
- C. Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.
- D. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
- E. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code (IBC).
 - 2. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.
 - 3. ICC-ES evaluation report for fastener.

END OF SECTION 061000

SECTION 064116 - PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Plastic-laminate-clad architectural cabinets.
 - 2. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-clad architectural cabinets that are not concealed within other construction.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include data for fire-retardant treatment from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.
- B. Shop Drawings:
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Apply AWI Quality Certification Program label to Shop Drawings.
- C. Samples: For each exposed product and for each color and texture specified.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer and Installer.
- B. Research reports.
- C. Field quality control reports.

1.4 CLOSEOUT SUBMITTALS

A. Quality Standard Compliance Certificates: AWI Quality Certification Program certificates.

1.5 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

- 1. Manufacturer's Certification: Licensed participant in AWI's Quality Certification Program.
- B. Installer Qualifications: Licensed participant in AWI's Quality Certification Program.

PART 2 - PRODUCTS

2.1 ARCHITECTURAL CABINET MANUFACTURERS

2.2 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

- A. Quality Standard: Unless otherwise indicated, comply with the Architectural Woodwork Standards for grades of cabinets indicated for construction, finishes, installation, and other requirements.
 - 1. Provide labels and certificates from AWI certification program indicating that woodwork complies with requirements of grades specified.
- B. Architectural Woodwork Standards Grade: Economy.
- C. Type of Construction: Frameless.
- D. Door and Drawer-Front Style: Flush overlay.
- E. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by quality standard.
 - 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. Formica Corporation.
 - b. Lamin-Art, Inc.
 - c. Wilsonart LLC.
- F. Laminate Cladding for Exposed Surfaces:
 - 1. Horizontal Surfaces: Grade HGL.
 - 2. Postformed Surfaces: Grade HGP.
 - 3. Vertical Surfaces: Grade VGS.
 - 4. Edges: Grade VGS.
 - 5. Pattern Direction: Vertically for doors and fixed panels, horizontally for drawer fronts.
- G. Concealed Backs of Panels with Exposed Plastic-Laminate Surfaces: High-pressure decorative laminate, NEMA LD 3, Grade BKL.
- H. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.

- 1. Join subfronts, backs, and sides with glued dovetail joints.
- I. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. As selected by Architect from laminate manufacturer's full range in the following categories:
 - a. Solid colors, gloss finish.
 - b. Wood grains, gloss finish.
 - c. Patterns, gloss finish.

2.3 WOOD MATERIALS

- A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.
 - 1. Wood Moisture Content: 5 to 10 percent.
- B. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.
 - 1. Medium-Density Fiberboard (MDF): ANSI A208.2, Grade 130.
 - 2. Particleboard: ANSI A208.1, Grade M-2.
 - 3. Thermoset Decorative Panels: Particleboard or MDF finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for Test Methods 3.3, 3.4, 3.6, 3.8, and 3.10.

2.4 CABINET HARDWARE AND ACCESSORIES

- A. Frameless Concealed Hinges (European Type): ANSI/BHMA A156.9, B01602, 135 degrees of opening, self-closing.
- B. Wire Pulls: Back mounted, solid metal, 5 inches long, 2-1/2 inches deep, and 5/16 inch in diameter.
- C. Catches: Roller catches, ANSI/BHMA A156.9, B03071.
- D. Adjustable Shelf Standards and Supports: ANSI/BHMA A156.9, B04071; with shelf rests, B04081.
- E. Shelf Rests: ANSI/BHMA A156.9, B04013; metal.
- F. Drawer Slides: ANSI/BHMA A156.9.
 - 1. Grade 1 and Grade 2: Side mounted and extending under bottom edge of drawer.
 - a. Type: Full extension.
 - b. Material: Zinc-plated steel with polymer rollers.

- 2. For drawers not more than 3 inches high and not more than 24 inches wide, provide Grade 1.
- 3. For drawers more than 3 inches high, but not more than 6 inches high and not more than 24 inches wide, provide Grade 1HD-100.
- 4. For drawers more than 6 inches high or more than 24 inches wide, provide Grade 1HD-100.
- G. Door and Drawer Silencers: ANSI/BHMA A156.16, L03011.
- H. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with ANSI/BHMA A156.18 for ANSI/BHMA finish number indicated.
 1. Satin Stainless Steel: ANSI/BHMA 630.
- I. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in ANSI/BHMA A156.9.

2.5 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln-dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrousmetal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.
- C. Adhesive for Bonding Plastic Laminate: Unpigmented contact cement.
 - 1. Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.6 FABRICATION

- A. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Before installation, condition cabinets to humidity conditions in installation areas for not less than 72 hours.

- B. Architectural Woodwork Standards Grade: Install cabinets to comply with quality standard grade of item to be installed.
- C. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with wafer-head cabinet installation screws.
- D. Install cabinets level, plumb, and true in line to a tolerance of 1/8 inch in 96 inches using concealed shims.
 - 1. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
 - 2. Install cabinets without distortion so doors and drawers fit openings and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 3. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c. with No. 10 wafer-head screws sized for not less than 1-1/2-inch penetration into wood framing, blocking, or hanging strips.

END OF SECTION 064116

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SECTION 072100 - THERMAL INSULATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Extruded polystyrene foam-plastic board insulation.

1.2 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Extruded polystyrene foam-plastic board insulation.

PART 2 - PRODUCTS

2.1 EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION

- A. Extruded Polystyrene Board Insulation, Type X: ASTM C578, Type X, 15-psi minimum compressive strength; unfaced.
 - 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. Dow Chemical Company (The).
 - b. Owens Corning.
 - 2. Flame-Spread Index: Not more than 25 when tested in accordance with ASTM E84.
 - 3. Smoke-Developed Index: Not more than 450 when tested in accordance with ASTM E84.
 - 4. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
 - 5. Labeling: Provide identification of mark indicating R-value of each piece of insulation 12 inches and wider in width.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products and applications.

- B. Install insulation that is undamaged, dry, and unsolled and that has not been left exposed to ice, rain, or snow at any time.
- C. Install insulation with manufacturer's R-value label exposed after insulation is installed.
- D. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
- E. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

END OF SECTION 072100

SECTION 072600 - VAPOR RETARDERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Polyethylene vapor retarders.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 INFORMATIONAL SUBMITTALS

A. Product test reports.

PART 2 - PRODUCTS

2.1 POLYETHYLENE VAPOR RETARDERS

A. Polyethylene Vapor Retarders: ASTM D4397, 10-mil- thick sheet, with maximum permeance rating of 0.1 perm.

PART 3 - EXECUTION

3.1 INSTALLATION OF VAPOR RETARDERS ON FRAMING

- A. Extend vapor retarders to extremities of areas to protect from vapor transmission. Secure vapor retarders in place with adhesives, vapor retarder fasteners, or other anchorage system as recommended by manufacturer. Extend vapor retarders to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.
- B. Seal vertical joints in vapor retarders over framing by lapping no fewer than two studs and sealing with vapor-retarder tape according to vapor-retarder manufacturer's written instructions. Locate all joints over framing members or other solid substrates.
- C. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarders.

D. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarders.

3.2 INSTALLATION OF VAPOR RETARDERS IN CRAWL SPACES

- A. Install vapor retarders over prepared grade. Lap joints a minimum of 12 inches and seal with manufacturer's recommended tape. Install second layer over pathways to equipment.
- B. Extend vapor retarder over footings and seal to foundation wall or grade beam with manufacturer's recommended tape.
 - 1. Extend vapor retarder vertically minimum 16 inches above top of footing.
- C. Seal around penetrations such as utilities and columns in order to create a monolithic, airtight membrane at grade surface, perimeter, and all vertical penetrations.

END OF SECTION 072600

SECTION 077100 - ROOF SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:1. Roof-edge drainage systems.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For roof specialties.
 - 1. Include plans, elevations, expansion-joint locations, keyed details, and attachments to other work. Distinguish between plant- and field-assembled work.
- C. Samples: For each type of roof specialty and for each color and texture specified.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: For tests performed by a qualified testing agency.
- B. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing specialties to include in maintenance manuals.

1.5 WARRANTY

- A. Special Warranty on Painted Finishes: Manufacturer agrees to repair finish or replace roof specialties that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested according to ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 ROOF-EDGE DRAINAGE SYSTEMS

- A. 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:
 - 1. Architectural Products Company.
 - 2. Castle Metal Products.
 - 3. Metal-Era, Inc.
- B. Gutters: Manufactured in uniform section lengths not exceeding 12 feet, with matching corner units, ends, outlet tubes, and other accessories. Elevate back edge at least 1 inch above front edge. Furnish flat-stock gutter straps, gutter brackets, expansion joints, and expansion-joint covers fabricated from same metal as gutters.
 - 1. Aluminum Sheet: 0.040 inch thick.
 - 2. Gutter Profile: Match Existing according to SMACNA's "Architectural Sheet Metal Manual."
 - 3. Corners: Factory mitered and mechanically clinched and sealed watertight.
 - 4. Gutter Supports: Gutter brackets with finish matching the gutters.
 - 5. Gutter Accessories: Flat ends.
- C. Downspouts: Corrugated rectangular complete with machine-crimped elbows, manufactured from the following exposed metal. Furnish with metal hangers, from same material as downspouts, and anchors.
 - 1. Formed Aluminum: 0.040 inch thick.
- D. Aluminum Finish: Two-coat fluoropolymer.
 - 1. Color: Match Existing.

2.2 MATERIALS

- A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A653/A653M, G90 coating designation.
- B. Aluminum Sheet: ASTM B209, alloy as standard with manufacturer for finish required, with temper to suit forming operations and performance required.
- C. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304.
- D. Copper Sheet: ASTM B370, cold-rolled copper sheet, H00 or H01 temper.

2.3 MISCELLANEOUS MATERIALS

A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to meet performance requirements. Furnish the following unless otherwise indicated:

- 1. Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.
- 2. Fasteners for Copper Sheet: Copper, hardware bronze, or passivated Series 300 stainless steel.
- 3. Fasteners for Aluminum: Aluminum or Series 300 stainless steel.
- 4. Fasteners for Stainless Steel Sheet: Series 300 stainless steel.
- 5. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot-dip zinc-coated steel according to ASTM A153/A153M or ASTM F2329.
- B. Elastomeric Sealant: ASTM C920, elastomeric silicone polymer sealant of type, grade, class, and use classifications required by roofing-specialty manufacturer for each application.
- C. Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type joints with limited movement.
- D. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
- E. Asphalt Roofing Cement: ASTM D4586, asbestos free, of consistency required for application.

2.4 FINISHES

- A. Coil-Coated Galvanized-Steel Sheet Finishes:
 - 1. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with ASTM A755/A755M and coating and resin manufacturers' written instructions.
 - a. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat.
 - b. Three-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in both color coat and clear topcoat.
 - c. Two-Coat Mica Fluoropolymer: AAMA 621. Fluoropolymer finish with suspended mica flakes containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat.
 - d. Three-Coat Metallic Fluoropolymer: AAMA 621. Fluoropolymer finish with suspended metallic flakes containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in both color coat and clear topcoat.
- B. Coil-Coated Aluminum Sheet Finishes:
 - 1. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - a. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Install roof specialties according to manufacturer's written instructions. Anchor roof specialties securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, underlayments, sealants, and other miscellaneous items as required to complete roof-specialty systems.
 - 1. Install roof specialties level, plumb, true to line and elevation; with limited oil-canning and without warping, jogs in alignment, buckling, or tool marks.
 - 2. Provide uniform, neat seams with minimum exposure of solder and sealant.
 - 3. Install roof specialties to fit substrates and to result in weathertight performance. Verify shapes and dimensions of surfaces to be covered before manufacture.
 - 4. Torch cutting of roof specialties is not permitted.
 - 5. Do not use graphite pencils to mark metal surfaces.
- B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
 - 1. Coat concealed side of uncoated aluminum roof specialties with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
 - 2. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of roof specialties for waterproof performance.
- C. Expansion Provisions: Allow for thermal expansion of exposed roof specialties.
 - 1. Space movement joints at a maximum of 12 feet with no joints within 18 inches of corners or intersections unless otherwise indicated on Drawings.
 - 2. When ambient temperature at time of installation is between 40 and 70 deg F, set joint members for 50 percent movement each way. Adjust setting proportionately for installation at higher ambient temperatures.
- D. Fastener Sizes: Use fasteners of sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.
- E. Seal concealed joints with butyl sealant as required by roofing-specialty manufacturer.
- F. Seal joints as required for weathertight construction. Place sealant to be completely concealed in joint. Do not install sealants at temperatures below 40 deg F.
- G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets to be soldered to a width of 1-1/2 inches; however, reduce pre-tinning where pre-tinned surface would show in completed Work. Tin edges of uncoated copper sheets using solder for copper. Do not use torches for soldering. Heat surfaces to receive solder and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.

3.2 INSTALLATION OF ROOF-EDGE DRAINAGE-SYSTEM

- A. Install components to produce a complete roof-edge drainage system according to manufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof-edge drainage system.
- B. Gutters: Join and seal gutter lengths. Allow for thermal expansion. Attach gutters to firmly anchored gutter supports spaced not more than 12 inches apart. Attach ends with rivets and seal with sealant to make watertight. Slope to downspouts.
 - 1. Install gutter with expansion joints at locations indicated but not exceeding 50 feet apart. Install expansion-joint caps.
- C. Downspouts: Join sections with manufacturer's standard telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls and 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c.
 - 1. Provide elbows at base of downspouts at grade to direct water away from building.
 - 2. Connect downspouts to underground drainage system indicated.

3.3 CLEANING AND PROTECTION

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean and neutralize flux materials. Clean off excess solder and sealants.
- C. Remove temporary protective coverings and strippable films as roof specialties are installed.

END OF SECTION 077100

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SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:1. Urethane joint sealants.

1.2 ACTION SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Qualification Data: For qualified Installer.
- C. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, indicating that sealants comply with requirements.
- E. Warranties: Sample of special warranties.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain each kind of joint sealant from single source from single manufacturer.
- C. Product Testing: Test joint sealants using a qualified testing agency.
 - 1. Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.
 - 2. Test according to SWRI's Sealant Validation Program for compliance with requirements specified by reference to ASTM C 920 for adhesion and cohesion under cyclic movement, adhesion-in-peel, and indentation hardness.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS, GENERAL

A. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.2 URETHANE JOINT SEALANTS

- A. Urethane, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.
 - 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. Sika Corporation; Joint Sealants.

2.3 JOINT-SEALANT BACKING

A. Cylindrical Sealant Backings: ASTM C1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

2.4 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove laitance and form-release agents from concrete.
 - 2. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces.

3.2 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with ASTM C1193 and joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
- C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - 1. Place sealants so they directly contact and fully wet joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 - 1. Provide concave joint profile per Figure 8A in ASTM C1193 unless otherwise indicated.

3.3 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces.
 - 1. Joint Locations:
 - a. Control and expansion joints on exposed interior surfaces of exterior walls.
 - b. Tile control and expansion joints.
 - c. Vertical joints on exposed surfaces of unit masonry & concrete walls and partitions.
 - d. Perimeter joints between materials listed above and frames of doors windows and louvers.
 - e. Other joints as indicated on Drawings.
 - 2. Joint Sealant: Urethane, S, NS, 100/50, T, NT: Single-component, nonsag
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION 079200

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SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes:
 - 1. Interior standard steel doors and frames.
 - 2. Exterior standard steel doors and frames.
 - 3. Exterior custom hollow-metal doors and frames.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include the following:
 - 1. Elevations of each door type.
 - 2. Details of doors, including vertical- and horizontal-edge details and metal thicknesses.
 - 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
- C. Product Schedule: For hollow-metal doors and frames, prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final door hardware schedule.

1.4 INFORMATIONAL SUBMITTALS

- A. Product test reports.
- B. Field quality control reports.

1.5 CLOSEOUT SUBMITTALS

A. Record Documents: For fire-rated doors, list of door numbers and applicable room name and number to which door accesses.

- 1.6 QUALITY ASSURANCE
 - A. Fire-Rated Door Inspector Qualifications: Inspector for field quality control inspections of firerated door assemblies shall meet the qualifications set forth in NFPA 80, Section 5.2.3.1 and the following:
 - 1. Door and Hardware Institute Fire and Egress Door Assembly Inspector (FDAI) certification.
 - B. Egress Door Inspector Qualifications: Inspector for field quality control inspections of egress door assemblies shall meet the qualifications set forth in NFPA 101, Section 7.2.1.15.4 and the following:
 - 1. Door and Hardware Institute Fire and Egress Door Assembly Inspector (FDAI) certification.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. 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:
 - 1. Ceco Door; ASSA ABLOY.
 - 2. DKS Steel Door & Frame Systems, Inc.
 - 3. North American Door Corp.

2.2 PERFORMANCE REQUIREMENTS

- A. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings indicated on Drawings, based on testing at positive pressure according to NFPA 252 or UL 10C.
 - 1. Smoke- and Draft-Control Door Assemblies: Listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105.
- B. Fire-Rated, Borrowed-Lite Assemblies: Assemblies complying with NFPA 80 and listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257 or UL 9.
- C. Thermally Rated Door Assemblies: Provide door assemblies with U-factor of not more than 0.40 deg Btu/F x h x sq. ft. when tested according to ASTM C518.

2.3 INTERIOR STANDARD STEEL DOORS AND FRAMES

- A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
- B. Heavy-Duty Doors and Frames: ANSI/SDI A250.8, Level 2; ANSI/SDI A250.4, Level B..
 - 1. Doors:
 - a. Type: As indicated in the Door and Frame Schedule.
 - b. Thickness: 1-3/4 inches.
 - c. Face: Uncoated steel sheet, minimum thickness of 0.042 inch.
 - d. Edge Construction: Model 2, Seamless.
 - e. Core: Manufacturer's standard.
 - 2. Frames:
 - a. Materials: Uncoated steel sheet, minimum thickness of 0.053 inch.
 - b. Construction: Knocked down.

2.4 EXTERIOR STANDARD STEEL DOORS AND FRAMES

- A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
- B. Maximum-Duty Doors and Frames: ANSI/SDI A250.8, Level 4; ANSI/SDI A250.4, Level A. Door 100.1.
 - 1. Doors:
 - a. Type: As indicated in the Door and Frame Schedule.
 - b. Thickness: 1-3/4 inches.
 - c. Face: Metallic-coated steel sheet, minimum thickness of 0.067 inch, with minimum A40 coating.
 - d. Edge Construction: Model 2, Seamless.
 - e. Top Edge Closures: Close top edges of doors with flush closures of same material as face sheets. Seal joints against water penetration.
 - f. Bottom Edges: Close bottom edges of doors with end closures or channels of same material as face sheets. Provide weep-hole openings in bottoms of exterior doors to permit moisture to escape.
 - g. Core: Vertical steel stiffener.
 - 2. Frames:
 - a. Materials: Metallic-coated steel sheet, minimum thickness of 0.067 inch, with minimum A40 coating.
 - b. Construction: Full profile welded.

2.5 EXTERIOR CUSTOM HOLLOW-METAL DOORS AND FRAMES

- A. Commercial Doors and Frames: NAAMM-HMMA 861; ANSI/SDI A250.4, Physical Performance Level A. Door 200.1.
 - 1. Doors:
 - a. Type: As indicated in the Door and Frame Schedule.
 - b. Thickness: 1-3/4 inches.
 - c. Face: Metallic-coated steel sheet, minimum thickness of 0.053 inch, with minimum G60 or A60 coating.
 - d. Edge Construction: Continuously welded with no visible seam.
 - e. Top Edge Closures: Close top edges of doors with flush closures of same material as face sheets. Seal joints against water penetration.
 - f. Bottom Edges: Close bottom edges of doors with end closures or channels of same material as face sheets. Provide weep-hole openings in bottoms of exterior doors to permit moisture to escape.
 - g. Core: Steel stiffened.
 - 2. Frames:
 - a. Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch, except 0.067 inch for openings exceeding 4 feet wide; with minimum G60 or A60 coating.
 - b. Construction: Full profile welded.

2.6 FRAME ANCHORS

- A. Jamb Anchors:
 - 1. Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.
 - 2. Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor. Provide one additional anchor for each 24 inches of frame height above 7 feet.
 - 3. Postinstalled Expansion Anchor: Minimum 3/8-inch-diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.
- B. Floor Anchors: Provide floor anchors for each jamb that extends to floor.
- C. Floor Anchors for Concrete Slabs with Underlayment: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at top of underlayment.
- D. Material: ASTM A879/A879M, Commercial Steel (CS), 04Z coating designation; mill phosphatized.
 - 1. For anchors built into exterior walls, steel sheet complying with ASTM A1008/A1008M or ASTM A1011/A1011M; hot-dip galvanized according to ASTM A153/A153M, Class B.

2.7 MATERIALS

- A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- B. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- C. Hot-Rolled Steel Sheet: ASTM A1011/A1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- D. Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B.
- E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153/A153M.
- F. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.
- G. Mineral-Fiber Insulation: ASTM C665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E136 for combustion characteristics.
- H. Glazing: Comply with requirements in Section 088000 "Glazing."

2.8 FABRICATION

- A. Door Astragals: Provide overlapping astragal on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted or as required to comply with published listing of qualified testing agency.
- B. Hollow-Metal Frames: Fabricate in one piece except where handling and shipping limitations require multiple sections. Where frames are fabricated in sections, provide alignment plates or angles at each joint, fabricated of metal of same or greater thickness as frames.
 - 1. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
 - 2. Door Silencers: Except on weather-stripped frames, drill stops to receive door silencers as follows. Keep holes clear during construction.
 - a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
 - b. Double-Door Frames: Drill stop in head jamb to receive two door silencers.
- C. Hardware Preparation: Factory prepare hollow-metal doors and frames to receive templated mortised hardware, and electrical wiring; include cutouts, reinforcement, mortising, drilling, and tapping according to ANSI/SDI A250.6, the Door Hardware Schedule, and templates.
 - 1. Reinforce doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.

- 2. Comply with BHMA A156.115 for preparing hollow-metal doors and frames for hardware.
- D. Glazed Lites: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with mitered hairline joints.
 - 1. Provide stops and moldings flush with face of door, and with beveled stops unless otherwise indicated.
 - 2. Multiple Glazed Lites: Provide fixed and removable stops and moldings so that each glazed lite is capable of being removed independently.
 - 3. Provide fixed frame moldings on outside of exterior and on secure side of interior doors and frames. Provide loose stops and moldings on inside of hollow-metal doors and frames.
 - 4. Coordinate rabbet width between fixed and removable stops with glazing and installation types indicated.
 - 5. Provide stops for installation with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.

2.9 STEEL FINISHES

- A. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.
 - 1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI/SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Remove welded-in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces. Touch up factory-applied finishes where spreaders are removed.
- B. Drill and tap doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.

3.2 INSTALLATION

- A. Hollow-Metal Frames: Comply with ANSI/SDI A250.11.
 - 1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces without damage to completed Work.

- a. Where frames are fabricated in sections, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces. Touch-up finishes.
- b. Install frames with removable stops located on secure side of opening.
- 2. Fire-Rated Openings: Install frames according to NFPA 80.
- 3. Floor Anchors: Secure with postinstalled expansion anchors.
 - a. Floor anchors may be set with power-actuated fasteners instead of postinstalled expansion anchors if so indicated and approved on Shop Drawings.
- 4. Solidly pack mineral-fiber insulation inside frames.
- 5. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with grout or mortar.
- 6. In-Place Concrete or Masonry Construction: Secure frames in place with postinstalled expansion anchors. Countersink anchors, and fill and make smooth, flush, and invisible on exposed faces.
- 7. Installation Tolerances: Adjust hollow-metal frames to the following tolerances:
 - a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 - c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.
- B. Hollow-Metal Doors: Fit and adjust hollow-metal doors accurately in frames, within clearances specified below.
 - 1. Non-Fire-Rated Steel Doors: Comply with ANSI/SDI A250.8.
 - 2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.
 - 3. Smoke-Control Doors: Install doors according to NFPA 105.
- C. Glazing: Comply with installation requirements in Section 088000 "Glazing" and with hollowmetal manufacturer's written instructions.

3.3 FIELD QUALITY CONTROL

- A. Inspection Agency: Engage a qualified inspector to perform inspections and to furnish reports to Architect.
- B. Inspections:
 - 1. Fire-Rated Door Inspections: Inspect each fire-rated door according to NFPA 80, Section 5.2.
 - 2. Egress Door Inspections: Inspect each door equipped with panic hardware, each door equipped with fire exit hardware, each door located in an exit enclosure, each electrically controlled egress door, and each door equipped with special locking arrangements according to NFPA 101, Section 7.2.1.15.

- C. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
- D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.
- E. Prepare and submit separate inspection report for each fire-rated door assembly indicating compliance with each item listed in NFPA 80.

3.4 REPAIR

- A. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
- B. Metallic-Coated Surface Touchup: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.
- C. Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

SECTION 083113 - ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes access doors and frames for walls and ceilings.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each type of access door and frame and for each finish specified.

1.3 CLOSEOUT SUBMITTALS

A. Record Documents: For fire-rated doors, list of applicable room name and number in which access door is located.

PART 2 - PRODUCTS

2.1 ACCESS DOORS AND FRAMES

- A. Flush Access Doors with Exposed Flanges:
 - 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. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - b. Larsens Manufacturing Company.
 - c. Maxam Metal Products Limited.
 - 2. Description: Face of door flush with frame, with exposed flange and concealed hinge.
 - 3. Locations: Ceiling.
 - 4. Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gage, factory primed.
 - 5. Frame Material: Same material, thickness, and finish as door.
 - 6. Latch and Lock: Cam latch, pinned-hex-head wrench operated.

2.2 MATERIALS

- A. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
- B. Steel Sheet: Uncoated or electrolytic zinc coated, ASTM A879/A879M, with cold-rolled steel sheet substrate complying with ASTM A1008/A1008M, Commercial Steel (CS), exposed.

- C. Frame Anchors: Same material as door face.
- D. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel according to ASTM A153/A153M or ASTM F2329.

2.3 FABRICATION

- A. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- B. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish mounting holes, attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- C. Latch and Lock Hardware:
 - 1. Quantity: Furnish number of latches and locks required to hold doors tightly closed.
 - 2. Keys: Furnish two keys per lock and key all locks alike.

2.4 FINISHES

- A. Painted Finishes: Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
 - 1. Factory Primed: Apply manufacturer's standard, lead- and chromate-free, universal primer immediately after surface preparation and pretreatment.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with manufacturer's written instructions for installing access doors and frames.
- B. Adjust doors and hardware, after installation, for proper operation.

3.2 FIELD QUALITY CONTROL

- A. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
- B. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

SECTION 085313 - VINYL WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes vinyl-framed windows.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.
- C. Samples: For each exposed product and for each color specified.

1.3 INFORMATIONAL SUBMITTALS

- A. Product test reports.
- B. Sample warranties.

1.4 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace vinyl windows that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period:
 - a. Window: 10 years from date of Substantial Completion.
 - b. Glazing Units: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 WINDOW PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.
 - 1. Window Certification: WDMA certified with label attached to each window.

- B. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440 as follows:
 - 1. Minimum Performance Class: LC.
 - 2. Minimum Performance Grade: 35.
- C. Thermal Transmittance: NFRC 100 maximum whole-window U-factor of 0.45 Btu/sq. ft. x h x deg F.
- D. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum whole-window SHGC of 0.40.

2.2 VINYL WINDOWS

- A. 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:
 - 1. Andersen Windows; Andersen Corporation.
 - 2. Jeld-Wen, Inc.
 - 3. Pella Corporation.
- B. Operating Types: As indicated on Drawings
- C. Frames and Sashes: Impact-resistant, UV-stabilized PVC complying with AAMA/WDMA/CSA 101/I.S.2/A440.
 - 1. Finish: Integral color, white.
 - 2. Gypsum Board Returns: Provide at interior face of frame.
- D. Insulating-Glass Units: ASTM E2190.
 - 1. Glass: ASTM C1036, Type 1, Class 1, q3.
 - a. Tint: Clear.
 - b. Kind: Fully tempered.
 - 2. Lites: Two.
 - 3. Filling: Fill space between glass lites with argon.
 - 4. Low-E Coating: Pyrolytic on second surface.
- E. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal.
- F. Hardware, General: Provide manufacturer's standard corrosion-resistant hardware sized to accommodate sash weight and dimensions.
 - 1. Exposed Hardware Color and Finish: As selected by Architect from manufacturer's full range.
- G. Hung Window Hardware:
 - 1. Counterbalancing Mechanism: AAMA 902.
 - 2. Locks and Latches: Operated from the inside only.

- 3. Tilt Hardware: Releasing tilt latch allows sash to pivot about horizontal axis.
- H. Weather Stripping: Provide full-perimeter weather stripping for each operable sash unless otherwise indicated.
- I. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.
 - 1. Exposed Fasteners: Do not use exposed fasteners to greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

2.3 ACCESSORIES

2.4 FABRICATION

- A. Fabricate vinyl windows in sizes indicated. Include a complete system for installing and anchoring windows.
- B. Glaze vinyl windows in the factory.
- C. Weather strip each operable sash to provide weathertight installation.
- D. Hardware: Mount hardware through double walls of vinyl extrusions or provide corrosion-resistant reinforcement.
- E. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation. Allow for scribing, trimming, and fitting at Project site.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E2112.
- B. Install windows level, plumb, square, true to line, without distortion, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.
- C. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.
- D. Clean exposed surfaces immediately after installing windows. Remove excess sealants, glazing materials, dirt, and other substances.

E. Remove and replace sashes if glass has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Glass products.
 - 2. Insulating glass.
 - 3. Glazing tapes.
 - 4. Miscellaneous glazing materials.

1.2 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches square.
- C. Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For glass.
- B. Product test reports.
- C. Preconstruction adhesion and compatibility test report.

1.5 QUALITY ASSURANCE

A. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C1021 to conduct the testing indicated.

New Rochelle 1923 Building Renovation - Flowers Park

1.6 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- B. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - 1. U-Factors: Center-of-glazing values, in accordance with NFRC 100 and based on LBL's WINDOW 7 computer program, expressed as Btu/sq. ft. x h x deg F.
 - 2. SHGC and Visible Transmittance: Center-of-glazing values, in accordance with NFRC 200 and based on LBL's WINDOW 7 computer program.
 - 3. Visible Reflectance: Center-of-glazing values, in accordance with NFRC 300.

2.2 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. NGA Publications: "Glazing Manual."
 - 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."

- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.

2.3 GLASS PRODUCTS

- A. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
- B. Reflective- and Low-E-Coated Vision Glass: ASTM C1376.

2.4 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified in accordance with ASTM E2190.
 - 1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
 - 2. Perimeter Spacer: Manufacturer's standard spacer material and construction.
 - 3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.5 GLAZING TAPES

- A. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
 - 1. AAMA 810.1, Type 1, for glazing applications in which tape acts as primary sealant.
 - 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.6 MISCELLANEOUS GLAZING MATERIALS

- A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- B. Setting Blocks:
 - 1. Neoprene with Shore A durometer hardness of 85, plus or minus 5.
 - 2. Type recommended in writing by sealant or glass manufacturer.
- C. Spacers:

- 1. Neoprene blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- 2. Type recommended in writing by sealant or glass manufacturer.
- D. Edge Blocks:
 - 1. Neoprene with Shore A durometer hardness per manufacturer's written instructions.
 - 2. Type recommended in writing by sealant or glass manufacturer.
- E. Cylindrical Glazing Sealant Backing: ASTM C1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

PART 3 - EXECUTION

3.1 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and in accordance with requirements in referenced glazing publications.
- H. Confirm installation method below with existing window glazing to be replaced.

3.2 TAPE GLAZING

A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.

- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Apply heel bead of elastomeric sealant.
- F. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- G. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.3 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.4 CLEANING AND PROTECTION

- A. Immediately after installation, remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.

- 1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.

3.5 MONOLITHIC GLASS SCHEDULE

- A. Clear Glass Type: Fully tempered float glass.
 - 1. Minimum Thickness: 6 mm.
 - 2. Safety glazing required.

3.6 INSULATING GLASS SCHEDULE

- A. Low-E-Coated, Clear Insulating Glass Type:
 - 1. Field verify existing
 - 2. Overall Unit Thickness: 1 inch (Field verify existing glazing to be replaced)
 - 3. Minimum Thickness of Each Glass Lite: 4 mm.
 - 4. Outdoor Lite: Annealed
 - 5. Interspace Content: Argon.
 - 6. Indoor Lite: Fully tempered float glass.
 - 7. Low-E Coating: Pyrolytic or sputtered on second or third surface.
 - 8. Safety glazing required.
 - 9. Field verify existing window glazing to be replaced.

SECTION 088300 - MIRRORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes the following types of silvered flat glass mirrors:
1. Tempered glass mirrors qualifying as safety glazing.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include mirror elevations, edge details, mirror hardware, and attachment details.

1.3 CLOSEOUT SUBMITTALS

A. Maintenance Data: For mirrors to include in maintenance manuals.

1.4 PRECONSTRUCTION TESTING

A. Preconstruction Mirror Mastic Compatibility Test: Submit mirror mastic products to mirror manufacturer for testing to determine compatibility of mastic with mirror backing.

1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to replace mirrors that deteriorate within specified warranty period. Deterioration of mirrors is defined as defects developed from normal use that are not attributed to mirror breakage or to maintaining and cleaning mirrors contrary to manufacturer's written instructions. Defects include discoloration, black spots, and clouding of the silver film.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. 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:
 - 1. Avalon Glass and Mirror Company.

- 2. Donisi Mirror Company.
- 3. National Glass Industries.

2.2 SILVERED FLAT GLASS MIRRORS

- A. Mirrors, General: ASTM C1503.
- B. Tempered Glass Mirrors: Mirror Glazing Quality for blemish requirements and complying with ASTM C1048 for Kind FT, Condition A, tempered float glass before silver coating is applied.
 - 1. Nominal Thickness: 4.0 mm.
- C. Safety Glazing Products: For tempered mirrors, provide products that comply with 16 CFR 1201, Category II.

2.3 MISCELLANEOUS MATERIALS

- A. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- B. Edge Sealer: Coating approved by mirror manufacturer.

2.4 MIRROR HARDWARE

- A. Aluminum J-Channels: Aluminum extrusions with a return deep enough to produce a glazing channel to accommodate mirrors of thickness indicated and in lengths required to cover edges of mirrors in a single piece.
 - 1. Bottom and Side Trim: J-channels formed with front leg and back leg not less than 3/8 and 7/8 inch in height, respectively, and a thickness of not less than 0.04 inch.
 - 2. Top Trim: J-channels formed with front leg and back leg not less than 5/8 and 1 inch in height, respectively, and a thickness of not less than 0.04 inch.
 - 3. Finish: Clear bright anodized.
- B. Fasteners: Fabricated of same basic metal and alloy as fastened metal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, over which mirrors are to be mounted, with Installer present, for compliance with installation tolerances, substrate preparation, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected and surfaces are dry.

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3.2 INSTALLATION

- A. General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications. Mount mirrors accurately in place in a manner that avoids distorting reflected images.
- B. Install mirrors with mirror hardware. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so heads do not impose point loads on backs of mirrors.
- C. Clean exposed surface of mirrors not more than four days before date scheduled for inspections that establish date of Substantial Completion. Clean mirrors as recommended in writing by mirror manufacturer.

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SECTION 092216 - NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Non-load-bearing steel framing systems for interior partitions.
 - 2. Suspension systems for interior ceilings and soffits.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of code-compliance certification for studs and tracks.
- B. Evaluation reports for embossed, high-strength steel studs and tracks and power-actuated fasteners.

1.4 QUALITY ASSURANCE

A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Steel Framing Industry Association or the Steel Stud Manufacturers Association.

PART 2 - PRODUCTS

2.1 FRAMING SYSTEMS

- A. Framing Members, General: Comply with ASTM C754 for conditions indicated.
 - 1. Steel Sheet Components: Comply with ASTM C645 requirements for steel unless otherwise indicated.
 - 2. Protective Coating: ASTM A653/A653M, G40, hot-dip galvanized unless otherwise indicated.
- B. Studs and Tracks: ASTM C645. Use either conventional steel studs and tracks or embossed, high-strength steel studs and tracks.

- 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. ClarkDietrich.
 - b. MRI Steel Framing, LLC.
 - c. Steel Construction Systems.
- 2. Minimum Base-Steel Thickness: 0.0296 inch.
- 3. Depth: As indicated on Drawings.
- C. Slip-Type Head Joints: Where indicated, provide one of the following:
 - 1. Clip System: Clips designed for use in head-of-wall deflection conditions that provide a positive attachment of studs to tracks while allowing 1-1/2-inch minimum vertical movement.
 - a. 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:
 - 1) CEMCO; California Expanded Metal Products Co.
 - 2) ClarkDietrich.
 - 2. Deflection Track: Steel sheet top track manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
- D. 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:
 - 1. ClarkDietrich.
 - 2. MBA Building Supplies.
 - 3. Steel Construction Systems.
- E. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
 - 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. ClarkDietrich.
 - b. MBA Building Supplies.
 - c. Steel Construction Systems.
 - 2. Minimum Base-Steel Thickness: 0.0269 inch.
- F. Hat-Shaped, Rigid Furring Channels: ASTM C645.
 - 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. ClarkDietrich.
- b. MBA Building Supplies.
- c. Steel Construction Systems.
- 2. Minimum Base-Steel Thickness: 0.0296 inch.
- 3. Depth: 7/8 inch.
- G. Z-Shaped Furring: With slotted or nonslotted web, face flange of 1-1/4 inches, wall attachment flange of 7/8 inch, minimum uncoated-steel thickness of 0.0179 inch, and depth required to fit insulation thickness indicated.
 - 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. ClarkDietrich.
 - b. MBA Building Supplies.
 - c. MRI Steel Framing, LLC.

2.2 SUSPENSION SYSTEMS

- A. Tie Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.062-inch-diameter wire, or double strand of 0.048-inch-diameter wire.
- B. Wire Hangers: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.16 inch in diameter.
- C. Carrying Channels (Main Runners): Cold-rolled, commercial-steel sheet with a base-steel thickness of 0.0538 inch and minimum 1/2-inch-wide flanges.
 - 1. Depth: As indicated on Drawings.
- D. Furring Channels (Furring Members):
 - 1. Hat-Shaped, Rigid Furring Channels: ASTM C645, 7/8 inch deep.
 - a. Minimum Base-Steel Thickness: 0.0296 inch.

2.3 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Steel Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Installation Standard: ASTM C754.

NON-STRUCTURAL METAL FRAMING

- 1. Gypsum Board Assemblies: Also comply with requirements in ASTM C840 that apply to framing installation.
- B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
- C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- D. Install bracing at terminations in assemblies.

3.2 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
- B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- C. Install studs so flanges within framing system point in same direction.
- D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
 - 1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
 - 2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
 - a. Install two studs at each jamb unless otherwise indicated.
 - b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance from jamb stud to allow for installation of control joint in finished assembly.
 - c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
 - 3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
- E. Direct Furring:
 - 1. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
- F. Z-Shaped Furring Members:
 - 1. Erect insulation, specified in Section 072100 "Thermal Insulation," vertically and hold in place with Z-shaped furring members spaced 24 inches o.c.

- 2. Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
- 3. At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner; on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches from corner and cut insulation to fit.
- G. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

3.3 INSTALLING CEILING SUSPENSION SYSTEMS

- A. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
- B. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
- C. Suspend hangers from building structure as follows:
 - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
 - a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
 - 2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
 - a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
 - 3. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
 - 4. Do not connect or suspend steel framing from ducts, pipes, or conduit.
- D. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

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SECTION 092300 - GYPSUM PLASTERING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Gypsum plastering on expanded-metal lath.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 EXPANDED-METAL LATH

- A. Expanded-Metal Lath: ASTM C847, cold-rolled carbon-steel sheet with ASTM A653/A653M, G60, hot-dip galvanized-zinc coating.
 - 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. CEMCO; California Expanded Metal Products Co.
 - b. ClarkDietrich.
 - 2. Paper Backing: Kraft paper factory bonded to back of lath.
 - 3. 3/8-Inch Rib Lath: 3.4 lb/sq. yd..

2.2 ACCESSORIES

A. General: Comply with ASTM C841, and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.

2.3 MISCELLANEOUS MATERIALS

- A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.
- B. Bonding Compound: ASTM C631.
- C. Fasteners for Attaching Metal Lath to Substrates: ASTM C841.

- D. Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, not less than 0.0475-inch diameter unless otherwise indicated.
- E. Mix Additives: Use gypsum plaster accelerators and retarders from plaster manufacturer if required by Project conditions. Use only additives that manufacturer recommends in writing for use with plaster to which it is added.

2.4 BASE-COAT PLASTER MATERIALS

- A. Lightweight-Gypsum Ready-Mixed Plaster: ASTM C28/C28M, with mill-mixed perlite aggregate.
 - 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. National Gypsum Company.
 - b. USG Corporation.
- B. Aggregates for Base-Coat Plasters: ASTM C35, perlite.

2.5 FINISH-COAT PLASTER MATERIALS

- A. Gypsum Ready-Mixed Finish Plaster: Manufacturer's standard, mill-mixed, gaged, interior finish.
 - 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. National Gypsum Company.
 - b. USG Corporation.
- B. Aggregates for Float Finishes: ASTM C35, perlite; graded according to ASTM C842.

2.6 PLASTER MIXES

- A. Mixing: Comply with ASTM C842 and manufacturer's written instructions for applications indicated.
- B. Mix Additives: Use accelerators and retarders, if required by Project conditions, according to manufacturer's written instructions.

PART 3 - EXECUTION

3.1 INSTALLING EXPANDED-METAL LATH

A. Expanded-Metal Lath: Install according to ASTM C841.

3.2 INSTALLING ACCESSORIES

- A. General: Install according to ASTM C841.
- B. Cornerbeads: Install at external corners.
- C. Casing Beads: Install at terminations of plasterwork, except where plaster passes behind and is concealed by other work and where metal screeds, bases, or frames act as casing beads.
- D. Control Joints: Locate as indicated on Drawings.

3.3 PLASTER APPLICATION

- A. General: Comply with ASTM C842.
- B. Base-Coat Plaster:
 - 1. Over Expanded-Metal Lath:
 - a. Scratch Coat: Gypsum neat plaster with job-mixed sand.
 - b. Brown Coat: Lightweight-gypsum ready-mixed plaster.
- C. Finish Coats:
 - 1. Smooth-Troweled Finishes: Gypsum ready-mixed finish plaster.
- D. Concealed Plaster:
 - 1. Where plaster application is concealed behind built-in cabinets, similar furnishings, and equipment, apply finish coat.
 - 2. Where plaster application is concealed above suspended ceilings and in similar locations, omit finish coat.
 - 3. Where plaster application is used as a base for adhesive application of tile and similar finishes, omit finish coat.

3.4 PLASTER REPAIRS

A. Repair or replace work to eliminate cracks, dents, blisters, buckles, crazing and check cracking, dry outs, efflorescence, sweat outs, and similar defects and where bond to substrate has failed.

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SECTION 092900 - GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Interior gypsum board.
 - 2. Tile backing panels.

1.2 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Gypsum wallboard.
 - 2. Gypsum ceiling board.
 - 3. Interior trim.
 - 4. Joint treatment materials.
 - 5. Laminating adhesive.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.

2.2 GYPSUM BOARD, GENERAL

A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.3 INTERIOR GYPSUM BOARD

- A. Gypsum Board, Type X: ASTM C1396/C1396M.
 - 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. CertainTeed Gypsum.
 - b. Georgia-Pacific Gypsum LLC.

- c. National Gypsum Company.
- 2. Thickness: 5/8 inch.
- 3. Long Edges: Tapered.
- B. Gypsum Ceiling Board: ASTM C1396/C1396M.
 - 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. CertainTeed Gypsum.
 - b. National Gypsum Company.
 - c. USG Corporation.
 - 2. Thickness: 1/2 inch.
 - 3. Long Edges: Tapered.

2.4 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
 - 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. CertainTeed Corporation.
 - b. James Hardie Building Products, Inc.
 - c. USG Corporation.
 - 2. Thickness: 5/8 inch.
 - 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.5 TRIM ACCESSORIES

- A. Interior Trim: ASTM C1047.
 - 1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet.
 - 2. Shapes:
 - a. Cornerbead.
 - b. Bullnose bead.
 - c. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - d. L-Bead: L-shaped; exposed long flange receives joint compound.
 - e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
 - f. Expansion (control) joint.
 - g. Curved-Edge Cornerbead: With notched or flexible flanges.

- B. Exterior Trim: ASTM C1047.
 - 1. Material: Hot-dip galvanized-steel sheet, plastic, or rolled zinc.
 - 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. Expansion (Control) Joint: One-piece, rolled zinc with V-shaped slot and removable strip covering slot opening.

2.6 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C475/C475M.
- B. Joint Tape:
 - 1. Interior Gypsum Board: Paper.
 - 2. Exterior Gypsum Soffit Board: Paper.
 - 3. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh.
 - 4. Tile Backing Panels: As recommended by panel manufacturer.
- C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use drying-type, all-purpose compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.
 - 3. Fill Coat: For second coat, use drying-type, all-purpose compound.
 - 4. Finish Coat: For third coat, use drying-type, all-purpose compound.
- D. Joint Compound for Tile Backing Panels:
 - 1. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.7 AUXILIARY MATERIALS

- A. Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.
- B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
- C. Steel Drill Screws: ASTM C1002 unless otherwise indicated.
 - 1. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 to 0.112 inch thick.

- 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
- D. Thermal Insulation: As specified in Section 072100 "Thermal Insulation."
- E. Vapor Retarder: As specified in Section 072600 "Vapor Retarders."

PART 3 - EXECUTION

3.1 INSTALLATION AND FINISHING OF PANELS

- A. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- B. Comply with ASTM C840.
- C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch-wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- D. For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- E. Prefill open joints and damaged surface areas.
- F. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- G. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C840:
 - 1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 - 2. Level 2: Panels that are substrate for tile.
 - 3. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
 - a. Primer and its application to surfaces are specified in Section 099123 "Interior Painting."
- H. Cementitious Backer Units: Finish according to manufacturer's written instructions.

3.2 **PROTECTION**

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.

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SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Glazed wall tile.
 - 2. Tile backing panels.
 - 3. Waterproof membrane for thinset applications.
 - 4. Metal edge strips.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples:
 - 1. Assembled samples mounted on a rigid panel, with grouted joints, for each type and composition of tile and for each color and finish required.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Installer is a Five-Star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.

PART 2 - PRODUCTS

2.1 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide Standard-grade tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

2.2 TILE PRODUCTS

- A. Ceramic Tile Type CT-1: Unglazed porcelain tile.
 - 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. American Marazzi Tile, Inc.
 - b. American Olean; a division of Dal-Tile Corporation.
 - c. Crossville, Inc.
 - d. Daltile.
 - e. Interceramic.
 - 2. Certification: Tile certified by the Porcelain Tile Certification Agency.
 - 3. Face Size: 12 by 24 inches.
 - 4. Face Size Variation: Rectified.
 - 5. Thickness: 3/8 inch.
 - 6. Face: Plain with square or cushion edges.
 - 7. Tile Color, Glaze, and Pattern: As selected by Architect from manufacturer's full range.
 - 8. Grout Color: As selected by Architect from manufacturer's full range.
 - 9. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from manufacturer's standard shapes:
 - a. External Corners: Surface bullnose, module size same as adjoining flat tile.

2.3 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 or ASTM C1325, Type A.
 - 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. Custom Building Products.
 - b. Georgia-Pacific Gypsum LLC.

- c. USG Corporation.
- 2. Thickness: 5/8 inch.

2.4 WATERPROOF MEMBRANE

- A. General: Manufacturer's standard product, selected from the following, that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
- B. Fluid-Applied Membrane: Liquid-latex rubber or elastomeric polymer.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Boiardi Products Corporation; a QEP company.
 - b. Bonsal American, an Oldcastle company.
 - c. Custom Building Products.

2.5 SETTING MATERIALS

- A. Standard Dry-Set Mortar (Thinset): ANSI A118.1.
 - 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. Boiardi Products Corporation; a QEP company.
 - b. Bonsal American, an Oldcastle company.
 - c. Custom Building Products.
 - 2. For wall applications, provide nonsagging mortar.

2.6 GROUT MATERIALS

- A. Standard Cement Grout: ANSI A118.6.
 - 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. Boiardi Products Corporation; a QEP company.
 - b. Bonsal American, an Oldcastle company.
 - c. Custom Building Products.

2.7 MISCELLANEOUS MATERIALS

A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

- B. Metal Edge Strips: Angle or L-shape, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; nickel silver exposed-edge material.
 - 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. Schluter Systems L.P.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- B. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.
- C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.2 INSTALLATION

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
- E. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

- F. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
 1. Porcelain Tile: 1/4 inch.
- G. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
- H. Metal Edge Strips: Install where edge of tile will be exposed and as indicated.
- I. Install tile backing panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.
- J. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.

3.3 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

- A. Interior Wall Installations, Wood or Metal Studs or Furring:
 - 1. Ceramic Tile Installation CT-1 : TCNA W244C or TCNA W244F; thinset mortar on cementitious backer board.
 - a. Ceramic Tile Type: CT-1.
 - b. Thinset Mortar: Standard dry-set mortar.
 - c. Grout: Standard unsanded cement grout.
- B. Shower Receptor and Wall Installations:
 - 1. Ceramic Tile Installation CT-1 : TCNA B412; thinset mortar on waterproof membrane over cementitious backer board.
 - a. Ceramic Tile Type: CT-1.
 - b. Thinset Mortar: Standard dry-set mortar.
 - c. Grout: Standard unsanded cement grout.

END OF SECTION 093013

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SECTION 096723 - RESINOUS FLOORING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Resinous flooring systems.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each type of exposed finish required.

1.3 INFORMATIONAL SUBMITTALS

- A. Material certificates.
- B. Material test reports.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- C. Close spaces to traffic during resinous flooring application and for 24 hours after application unless manufacturer recommends a longer period.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Flammability: Self-extinguishing according to ASTM D635.

2.2 RESINOUS FLOORING

- A. Resinous Flooring System: Abrasion-, impact-, and chemical-resistant, aggregate-filled, and resin-based monolithic floor surfacing designed to produce a seamless floor and integral cove base.
 - 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. Sherwin-Williams Company, General Polymers.
 - b. Sika Corporation; Flooring.
 - c. Tnemec Inc.
- B. System Characteristics:
 - 1. Color and Pattern: As selected by Architect from manufacturer's full range.
 - 2. Wearing Surface: Orange-peel texture.
 - 3. Overall System Thickness: 1/4 inch.
- C. Primer: Type recommended by resinous flooring manufacturer for substrate and resinous flooring system indicated.
- D. Reinforcing Membrane: Flexible resin formulation that is recommended by resinous flooring manufacturer.
 - a. Provide fiberglass scrim embedded in reinforcing membrane.
- E. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.
- F. Body Coats:
 - 1. Resin: Epoxy.
 - 2. Formulation Description: High solids.
 - 3. Type: Pigmented.
 - 4. Application Method: Self-leveling slurry with broadcast aggregates.
 - 5. Number of Coats: One.
 - 6. Thickness of Coats: 1/8 inch.
 - 7. Aggregates: Manufacturer's standard.
- G. Topcoats: Sealing or finish coats.
 - 1. Resin: Epoxy.

- 2. Formulation Description: High solids.
- 3. Type: Pigmented.
- 4. Number of Coats: Two.
- 5. Thickness of Coats: 1/16 inch.
- 6. Finish: Matte.
- H. System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:
 - 1. Compressive Strength: minimum according to ASTM C579.
 - 2. Tensile Strength: minimum according to ASTM C307.
 - 3. Flexural Modulus of Elasticity: minimum according to ASTM C580.
 - 4. Water Absorption: percent maximum according to ASTM C413.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous flooring application.
- B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
 - 1. Roughen concrete substrates as follows:
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
 - Comply with NACE No. 6/SSPC-SP13, with a Concrete Surface Profile (CSP) of 3 or greater in accordance with International Concrete Repair Institute (ICRI) Technical Guideline No. 310.2R, unless manufacturer's written instructions are more stringent.
 - 2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
 - 3. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
 - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. of slab area in 24 hours.
 - b. Relative Humidity Test: Use in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.

- 4. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C. Patching and Filling: Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
- D. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

3.2 INSTALLATION

- A. Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
 - 1. Expansion and Isolation Joint Treatment: At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.
- B. Primer: Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Reinforcing Membrane: Apply reinforcing membrane to entire substrate surface.
- D. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions. Round internal and external corners.
 - 1. Integral Cove Base: 4 inches high.
- E. Self-Leveling Body Coats: Apply self-leveling slurry body coats in thickness indicated for flooring system.
 - 1. Aggregates: Broadcast aggregates at rate recommended by manufacturer and, after resin is cured, remove excess aggregates to provide surface texture indicated.
- F. Grout Coat: Apply grout coat, of type recommended by resinous flooring manufacturer, to fill voids in surface of final body coat.
- G. Topcoats: Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer and to produce wearing surface indicated.
- H. Protect resinous flooring from damage and wear during the remainder of construction period.

END OF SECTION 096723

SECTION 102113.19 - PLASTIC TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Solid-plastic toilet compartments configured as toilet enclosures.
- B. Related Requirements:
 - 1. Section 055000 "Metal Fabrications" for supports that attach floor-and-ceiling-anchored compartments to overhead structural system.
 - 2. Section 092216 "Non-Structural Metal Framing" for blocking.
 - 3. Section 102800 "Toilet, Bath, and Laundry Accessories" for accessories mounted on toilet compartments.

1.2 ACTION SUBMITTALS

- A. Product Data:
 - 1. Solid-plastic toilet compartments:
- B. Shop Drawings: For solid-plastic toilet compartments.
 - 1. Include plans, elevations, sections, details, and attachment details.
- C. Samples: For each type of toilet compartment material indicated.
 - 1. Include Samples of hardware and accessories involving material and color selection.

1.3 INFORMATIONAL SUBMITTALS

- A. Certificates:
 - 1. Product Certificates: For each type of toilet compartment by manufacturer.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire Performance: Tested in accordance with, and pass the acceptance criteria of, NFPA 286.
- B. Regulatory Requirements: Comply with applicable provisions in the U.S. Department of Justice "2010 ADA Standards for Accessible Design" and ICC A117.1 for toilet compartments designated as accessible.

2.2 SOLID-PLASTIC TOILET COMPARTMENTS

- A. 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:
 - 1. AJW Architectural Products.
 - 2. Global Partitions Corp., an ASI Group Company.
 - 3. Scranton Products.
- B. Toilet-Enclosure Style: Floor and ceiling anchored.
- C. Door, Panel, and Pilaster Construction: Solid, high-density polyethylene (HDPE) panel material, not less than 1 inch thick, seamless, with eased edges, and with homogenous color and pattern throughout thickness of material.
 - 1. Heat-Sink Strip: Manufacturer's standard continuous, stainless steel strip fastened to exposed bottom edges of solid-plastic components to hinder malicious combustion.
 - 2. Color and Pattern: One color and pattern in each room as selected by Architect from manufacturer's full range.
- D. Pilaster Shoes and Sleeves (Caps): Manufacturer's standard design; stainless steel.
- E. Brackets (Fittings):
 - 1. Full-Height (Continuous) Type: Manufacturer's standard design; stainless steel.

2.3 HARDWARE AND ACCESSORIES

- A. Hardware and Accessories, Heavy Duty: Manufacturer's heavy-duty operating hardware and accessories.
 - 1. Hinges: Manufacturer's minimum 0.062-inch-thick stainless steel continuous, cam type that swings to a closed or partially open position, allowing emergency access by lifting door. Mount with through bolts.
 - 2. Latch and Keeper: Manufacturer's heavy-duty, surface-mounted, cast-stainless steel latch unit, designed to resist damage due to slamming, with combination rubber-faced door strike and keeper, and with provision for emergency access. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible. Mount with through bolts.

- 3. Coat Hook: Manufacturer's heavy-duty combination cast-stainless steel hook and rubbertipped bumper, sized to prevent inswinging door from hitting compartment-mounted accessories. Mount with through bolts.
- 4. Door Bumper: Manufacturer's heavy-duty, rubber-tipped, cast-stainless steel bumper at outswinging doors. Mount with through bolts.
- 5. Door Pull: Manufacturer's heavy-duty, cast-stainless steel pull at outswinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible. Mount with through bolts.

2.4 MATERIALS

- A. Aluminum Castings: ASTM B26/B26M.
- B. Aluminum Extrusions: ASTM B221.
- C. Brass Castings: ASTM B584.
- D. Brass Extrusions: ASTM B455.
- E. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304, stretcher-leveled standard of flatness.
- F. Stainless Steel Castings: ASTM A743/A743M.
- G. Zamac: ASTM B86, commercial zinc-alloy die castings.

2.5 FABRICATION

- A. Fabrication, General: Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories where required for attachment of toilet accessories.
- B. Floor-and-Ceiling-Anchored Units: Provide manufacturer's standard corrosion-resistant anchoring assemblies with leveling adjustment nuts at tops and bottoms of pilasters. Provide shoes and sleeves (caps) at pilasters to conceal anchorage.
- C. Door Size and Swings: Unless otherwise indicated, provide 24-inch-wide, inswinging doors for standard toilet compartments and 36-inch-wide, outswinging doors with a minimum 32-inch-wide, clear opening for compartments designated as accessible.

PART 3 - EXECUTION

3.1 INSTALLATION OF PLASTIC TOILET COMPARTMENTS

A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.

- 1. Maximum Clearances:
 - a. Pilasters and Panels: 1/2 inch.
 - b. Panels and Walls: 1 inch.
- 2. Full-Height (Continuous) Brackets: Secure panels to walls and to pilasters with fullheight brackets.
 - a. Locate bracket fasteners, so holes for wall anchors occur in masonry or tile joints.
 - b. Align brackets at pilasters with brackets at walls.
- B. Floor-and-Ceiling-Anchored Units: Secure pilasters to supporting construction and level, plumb, and tighten. Hang doors and adjust, so doors are level and aligned with panels, when doors are in closed position.

3.2 ADJUSTING

A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on inswinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on outswinging doors to return doors to fully closed position.

END OF SECTION 102113.19

SECTION 102123 - CUBICLE CURTAINS AND TRACK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Cubicle-curtain tracks and carriers.
 - 2. Cubicle curtains.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 CLOSEOUT SUBMITTALS

A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Cubicle Curtains: Provide curtain fabrics with the following characteristics:
 - 1. Laundering: Launderable to a water temperature of not less than 160 deg F.
 - 2. Flame Resistance: Provide fabrics identical to those that have passed NFPA 701 when tested by a qualified testing agency acceptable to authorities having jurisdiction.
 - a. Identify fabrics with appropriate markings of a qualified testing agency.

2.2 CUBICLE-CURTAIN SUPPORT SYSTEMS

- A. 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:
 - 1. Construction Specialties, Inc.
 - 2. Cubicle Curtain Factory, Inc.
- B. Extruded-Aluminum Curtain Track: Not less than 1-1/4 inches wide by 3/4 inch high.
 - 1. Curved Track: Factory-fabricated, 12-inch- radius bends.
 - 2. Finish: Clear anodized.

- C. Curtain Track Accessories: Fabricate splices, end caps, connectors, end stops, coupling and joining sleeves, wall flanges, brackets, ceiling clips, and other accessories from same material and with same finish as track.
 - 1. End Stop: Removable with carrier hook.
- D. Curtain Glide Carriers: One-piece nylon glide with nylon hook.
- E. Concealed Fasteners: Stainless steel.

2.3 CURTAINS

- A. 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:
 - 1. Cubicle Curtain Factory, Inc.
 - 2. Standard Textile Co., Inc.
- B. Fabric: Curtain manufacturer's standard, 100 percent polyester; inherently and permanently flame resistant, stain resistant, and antimicrobial.
 - 1. Pattern: Solid color.
 - 2. Width: Equal to track length from which curtain is hung plus 10 percent of added fullness, but not less than 12 inches of added fullness.
 - 3. Color: As selected by Architect from manufacturer's full range.
- C. Curtain Grommets: Two-piece, rolled-edge, rustproof, nickel-plated brass; spaced not more than 6 inches o.c.; machined into top hem.
- D. PVC-Strip Curtain Drop: 18 inches long with chrome-plated steel hook.
- E. Snap Attachments: Provide manufacturer's standard nickel-plated brass snap attachments for modular panels.
- F. Curtain Tieback: Nickel-plated brass chain; one at each curtain termination.

2.4 CURTAIN FABRICATION

- A. Continuous Curtain Panels:
 - 1. Width: Equal to track length from which curtain is hung plus 10 percent of added fullness, but not less than 12 inches of added fullness.
 - 2. Length: Equal to floor-to-ceiling height, minus depth of track and carrier at top, and minus clearance above the finished floor of 12 inches.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install tracks level and plumb, according to manufacturer's written instructions.
- B. For tracks of up to 20 feet in length, provide track fabricated from single, continuous length.
 - 1. Curtain-Track Mounting: Surface.
- C. Track Accessories: Install splices, end caps, connectors, end stops, coupling and joining sleeves, and other accessories as required for a secure and operational installation.
 - 1. Provide one hinged loading unit for each bed.
- D. Curtain Carriers: Provide curtain carriers adequate for 6-inch spacing along full length of curtain plus an additional carrier.
- E. Cubicle Curtains: Hang curtains on each curtain track. Secure with curtain tieback.

END OF SECTION 102123

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SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Public-use washroom accessories.
 - 2. Public-use shower room accessories.
 - 3. Underlavatory guards.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each finish specified, full size.
 - 1. Approved full-size Samples will be returned and may be used in the Work.

1.3 INFORMATIONAL SUBMITTALS

A. Sample warranties.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 WARRANTY

- A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Hand Dryers: Manufacturer agrees to repair or replace hand dryers that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- 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. Structural Performance: Design accessories and fasteners to comply with the following requirements:
 - 1. Grab Bars: Installed units are able to resist 250 lbf concentrated load applied in any direction and at any point.
 - 2. Shower Seats: Installed units are able to resist [250 lbf] [360 lbf] <Insert load> applied in any direction and at any point.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

A. Manufacturers and Products: Refer to accessory and equipment schedule on drawings for manufacturers and model numbers.

2.3 PUBLIC-USE SHOWER ROOM ACCESSORIES

- A. Manufacturers and Products: Refer to accessory and equipment schedule on drawings for manufacturers and model numbers.
- B. Shower Curtain :
 - 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. American Specialties, Inc.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley Corporation.
 - 2. Size: Minimum 6 inches wider than opening by 72 inches high.
 - 3. Material: Vinyl, minimum 0.006 inch thick, opaque, matte.
 - 4. Color: As selected from manufacturer's full range.
 - 5. Grommets: Corrosion resistant at minimum 6 inches o.c. through top hem.
 - 6. Shower Curtain Hooks: Chrome-plated or stainless steel, spring wire curtain hooks with snap fasteners, sized to accommodate specified curtain rod. Provide one hook per curtain grommet.
- C. Folding Shower Seat:
 - 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. American Specialties, Inc.
- b. Bobrick Washroom Equipment, Inc.
- c. Bradley Corporation.
- 2. Configuration: Stainless steel seat designed to fold into recessed-mounted, stainless steel wall box for wheelchair access.
- 3. Seat: Stainless steel, ASTM A480/A480M No. 4 finish (satin); 0.05-inch-minimum nominal thickness; with single-piece, pan-type construction and edge seams welded and ground smooth.
- 4. Mounting Mechanism: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
- D. Soap Dish:
 - 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. American Specialties, Inc.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley Corporation.
 - 2. Description: Surface mounted
 - 3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
- E. Robe Hook:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. American Specialties, Inc.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley Corporation.
 - 2. Description: Double-prong unit.
 - 3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
- F.

2.4 UNDERLAVATORY GUARDS

- A. Underlavatory Guard:
 - 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. Plumberex Specialty Products, Inc.
 - b. Truebro by IPS Corporation.

- 2. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.
- 3. Material and Finish: Antimicrobial, molded plastic, white.

2.5 FABRICATION

A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 - 1. Remove temporary labels and protective coatings.
- B. Grab Bars: Install to comply with specified structural-performance requirements.
- C. Shower Seats: Install to comply with specified structural-performance requirements.

END OF SECTION 102800

SECTION 105113 - METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Welded open-front athletic lockers.
 - 2. Locker benches.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For metal lockers.
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Include locker identification system and numbering sequence.
- C. Samples: For each color specified.

1.3 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
 - 1. Warranty Period for Welded Metal Lockers: Lifetime from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: For lockers indicated to be accessible, comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

2.1 WELDED, OPEN-FRONT ATHLETIC LOCKERS

- A. 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:
 - 1. AJW Architectural Products.
 - 2. DeBourgh Mfg. Co
 - 3. List Industries Inc.
- B. Locker Sizes and Configurations.
 - 1. Tiers: Single.
 - 2. Height: 72 inches.
 - 3. Width: 18 inches.
 - 4. Depth: 18 inches.
- C. Body: Assembled by welding body components together at seams with exposed welds sanded smooth. Fabricate from unperforated steel sheet with thicknesses as follows:
 - 1. Tops and Bottoms: 0.060-inch nominal thickness, with single bend at edges.
 - 2. Side Panels: Fabricated from 0.060-inch nominal-thickness sheet metal welded to 1-by-1by-1/8-inch nominal-thickness steel angle frame.
 - 3. Backs: 0.048-inch nominal thickness, welded to side frames and intermediate partitions.
 - 4. Tier Dividers: 0.060-inch nominal thickness.
 - 5. Shelves: 0.060-inch, 16 gage, nominal thickness, with double bend at front and single bend at sides and back.
 - 6. Exposed End Panels: Fabricated from 0.060-inch nominal-thickness sheet metal welded to 1-by-1/8-inch nominal-thickness steel angle frame.
- D. Perforated Sides: Fabricated from 0.060-inch nominal-thickness steel sheet with manufacturer's standard diamond perforations. Perforations shall not occur at security compartment.
- E. Frames: Channel formed; fabricated from 0.105-inch, 12 gage, nominal-thickness cold-rolled steel angles; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames.
- F. Reinforced Bottoms: Structural channels, formed from 0.060-inch, 16 gage, nominal-thickness steel sheet; welded to front and rear of side-panel frames. Bottoms to include installation holes with spacer channel pipe to prevent warping upon anchoring.
- G. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.
 - 1. Knuckle Hinges: Steel, full loop, five or seven knuckles, tight pin; minimum 3 inches high. Provide no fewer than three hinges for each door 42 inches or more high. Hinges welded to the door and the frame, connected by a pin secured with a tamper resistant crimp cap.
- H. Security Boxes: Nonperforated, consisting of partition extending from upper shelf to top of metal locker, fabricated from 0.060-inch nominal-thickness steel sheet welded to sides at minimum 6-inch intervals.

- 1. Basis-of-Design Product: DeBourgh Mfg. Co.; Collegiate; 12 inches.
- 2. Security Compartment Door:
 - a. Door fabricated from 0.075-inch, 14 gage, nominal-thickness cold-rolled steel sheet with 3/4-inch flanges on three sides with an overlap channel on the latch side.
 - a. Louvered Vents: No fewer than six louver openings at top and bottom of formed door lockers; 7 percent opening; pre-punched for padlock lock.
 - b. Rubber Bumpers: Provide two rubber bumpers for silent closing.
- I. Box Locker Spring Latch: 0.060-inch, Identification Plates: Manufacturer's standard, black anodized laser-etched, aluminum plates, with numbers and letters at least 3/8-inch high.
 - 1. Locate number plate near center of each door.
 - 2. Owner to furnish numbering sequence.
- J. Hooks: Manufacturer's standard ball-pointed, steel; zinc plated, two single ceiling hooks and one double ceiling hook in each locker opening.
- K. Coat Rods: 3/4-inch- diameter steel, chrome finished.
- L. Recess Trim: Fabricated from 0.048-inch, 18 gage, nominal-thickness steel sheet.
- M. Filler Panels: Fabricated from 0.048-inch, 18 gage, nominal-thickness steel sheet.
- N. Boxed End Panels: Fabricated from 0.060-inch nominal-thickness steel sheet.
- O. Finished End Panels: Fabricated from 0.024-inch, 24 gage, nominal-thickness steel sheet to cover unused penetrations and fasteners, except for perimeter fasteners, at exposed ends of nonrecessed metal lockers; finished to match lockers.
- P. Materials:
 - 1. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
 - 2. Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B; with A60 zinc-iron, alloy (galvannealed) coating designation.
 - 3. Expanded Metal: ASTM F1267, Type II (flattened), Class I (uncoated), 3/4-inch steel mesh, with at least 70 percent open area.
- Q. Finish: Baked polyester/TGIC (triglycidyl isocyanurate) powder coat on clean phosphatized and sealed unit substrates.
 - 1. Thickness: Minimum 2 mil.
 - 2. Color: As selected by Architect from manufacturer's full range.

2.2 LOCKS

A. Combination Padlock: Provided by Owner.

METAL LOCKERS

New Rochelle 1923 Building Renovation - Flowers Park

2.3 LOCKER BENCHES

- A. 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:
 - 1. AJW Architectural Products.
 - 2. DeBourgh Mfg. Co
 - 3. Penco Products, Inc.
- B. Provide bench units with overall assembly height of 17-1/2 inches.
- C. Bench Tops: Manufacturer's standard one-piece units, with rounded corners and edges.
 - 1. Size: Minimum 9-1/2 inches wide by 1-1/4 inches thick except provide 20- to 24-inchwide tops where accessible benches are indicated.
 - 2. Laminated clear hardwood with one coat of clear sealer on all surfaces and one coat of clear lacquer on top and sides.
- D. Fixed-Bench Pedestals: Manufacturer's standard supports, with predrilled fastener holes for attaching bench top and anchoring to floor, complete with fasteners and anchors.
 - 1. Color: As selected by Architect from manufacturer's full range.

E. Materials:

- 1. Stainless Steel Plate, Sheet, and Strip: ASTM A240/A240M or ASTM A666, Type 304.
- 2. Steel Tube: ASTM A500/A500M, cold rolled.

2.4 FABRICATION

- A. Fabricate metal lockers square, rigid, without warp, and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
- B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments.
- C. Equipment: Provide each locker with an identification plate and the following equipment:
 - 1. Open-Front Athletic Lockers: Two single-prong wall hooks bolted to locker back and coat rod.
- D. Welded Construction: Factory preassemble metal lockers by welding all joints, seams, and connections; with no bolts, nuts, screws, or rivets used in assembly of main locker groups. Factory weld main locker groups into one-piece structures. Grind exposed welds smooth and flush.
- E. Accessible Lockers: Fabricate as follows:
 - 1. Locate bottom shelf no lower than 15 inches above the floor.
 - 2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 48 inches above the floor.

- F. Continuous Zee Base: Fabricated in lengths as long as practical to enclose base and base ends; finished to match lockers.
- G. Recess Trim: Fabricated with minimum 2-1/2-inch face width and in lengths as long as practical; finished to match lockers.
- H. Filler Panels: Fabricated in an unequal leg angle shape; finished to match lockers. Provide slipjoint filler angle formed to receive filler panel.
- I. Boxed End Panels: Fabricated with 1-inch-wide edge dimension, and designed for concealing fasteners and holes at exposed ends of nonrecessed metal lockers; finished to match lockers.
- J. Finished End Panels: Fabricated to conceal unused penetrations and fasteners, except for perimeter fasteners, at exposed ends of nonrecessed metal lockers; finished to match lockers.
- K. Center Dividers: Full-depth, vertical partitions between bottom and shelf; finished to match lockers.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install lockers level, plumb, and true; shim as required, using concealed shims.
 - 1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
 - 2. Anchor single rows of metal lockers to walls near top and bottom of lockers.
 - 3. Anchor back-to-back metal lockers to floor.
- B. Welded Lockers: Connect groups together with manufacturer's standard fasteners, with no exposed fasteners on face frames.
- C. Trim: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
 - 1. Attach recess trim to recessed metal lockers with concealed clips.
 - 2. Attach filler panels with concealed fasteners.
 - 3. Attach boxed end panels using concealed fasteners to conceal exposed ends of nonrecessed metal lockers.
 - 4. Attach finished end panels using fasteners only at perimeter to conceal exposed ends of nonrecessed metal lockers.
- D. Fixed Benches: Provide no fewer than two pedestals for each bench, uniformly spaced not more than 72 inches apart.

END OF SECTION 105113

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SECTION 123623.13 - PLASTIC-LAMINATE-CLAD COUNTERTOPS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Plastic-laminate-clad countertops.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For plastic-laminate-clad countertops.
 - 1. Apply AWI Quality Certification Program label to Shop Drawings.
- C. Samples: Plastic laminates in each type, color, pattern, and surface finish required.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For the following:
 - 1. Composite wood products.
 - 2. High-pressure decorative laminate.
 - 3. Adhesives.
- B. Quality Standard Compliance Certificates: AWI Quality Certification Program.

1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful inservice performance.
 - 1. Shop Certification: AWI's Quality Certification Program accredited participant.
- B. Installer Qualifications: AWI's Quality Certification Program accredited participant.

PART 2 - PRODUCTS

2.1 PLASTIC-LAMINATE-CLAD COUNTERTOPS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of plastic-laminate-clad countertops indicated for construction, finishes, installation, and other requirements.
 - 1. Provide inspections of fabrication and installation together with labels and certificates from AWI certification program indicating that countertops comply with requirements of grades specified.
- B. Grade: Economy.
- C. High-Pressure Decorative Laminate: NEMA LD 3, Grade HGL.
- D. 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:
 - 1. Formica Corporation.
 - 2. Lamin-Art, Inc.
 - 3. Wilsonart LLC.
- E. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. As indicated by manufacturer's designations.
 - 2. Match Architect's sample.
 - 3. As selected by Architect from manufacturer's full range in the following categories:
 - a. Solid colors, gloss finish.
 - b. Wood grains, gloss finish with grain running parallel to length of countertop.
 - c. Patterns, gloss finish.
- F. Edge Treatment: Same as laminate cladding on horizontal surfaces.
- G. Core Material: As selected by fabricator to comply with quality standard.
- H. Core Material at Sinks: exterior-grade plywood.
- I. Core Thickness: 1-1/8 inch.
 - 1. Build up countertop thickness to 1-1/2 inches at front, back, and ends with additional layers of core material laminated to top.
- J. Backer Sheet: Provide plastic-laminate backer sheet, NEMA LD 3, Grade BKL, on underside of countertop substrate.
- K. Paper Backing: Provide paper backing on underside of countertop substrate.

2.2 WOOD MATERIALS

- A. Wood Products: Provide materials that comply with requirements of referenced quality standard unless otherwise indicated.
 - 1. Wood Moisture Content: 5 to 10 percent.
- B. Composite Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of countertop and quality grade specified unless otherwise indicated.
 - 1. MDF: Medium-density fiberboard, ANSI A208.2, Grade 130.
 - 2. Particleboard: ANSI A208.1, Grade M-2.
 - 3. Softwood Plywood: DOC PS 1.

2.3 MISCELLANEOUS MATERIALS

- A. Adhesive for Bonding Plastic Laminate: Unpigmented contact cement.
 - 1. Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.4 FABRICATION

- A. Fabricate countertops to dimensions, profiles, and details indicated. Provide front and end overhang of 1 inch over base cabinets. Ease edges to radius indicated for the following:
 - 1. Solid-Wood (Lumber) Members: 1/16 inch unless otherwise indicated.
- B. Complete fabrication, including assembly, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Grade: Install countertops to comply with same grade as item to be installed.
- B. Assemble countertops and complete fabrication at Project site to the extent that it was not completed in the shop.
 - 1. Provide cutouts for appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately, and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.
- C. Field Jointing: Where possible, make in the same manner as shop jointing, using dowels, splines, adhesives, and fasteners recommended by manufacturer. Prepare edges to be joined in

shop so Project-site processing of top and edge surfaces is not required. Locate field joints where shown on Shop Drawings.

- 1. Secure field joints in countertops with concealed clamping devices located within 6 inches of front and back edges and at intervals not exceeding 24 inches. Tighten according to manufacturer's written instructions to exert a constant, heavy-clamping pressure at joints.
- D. Scribe and cut countertops to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Countertop Installation: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.
 - 1. Install countertops level and true in line. Use concealed shims as required to maintain not more than a 1/8-inch-in-96-inches variation from a straight, level plane.
 - 2. Secure backsplashes to tops with concealed metal brackets at 16 inches o.c. and to walls with adhesive.
 - 3. Seal joints between countertop and backsplash, if any, and joints where countertop and backsplash abut walls with mildew-resistant silicone sealant or another permanently elastic sealing compound recommended by countertop material manufacturer.
- F. Protection: Provide Kraft paper or other suitable covering over countertop surfaces, taped to underside of countertop at a minimum of 48 inches o.c. Remove protection at Substantial Completion.

END OF SECTION 123623.13

SECTION 144200 - WHEELCHAIR LIFTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Vertical platform lifts.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For each lift.
 - 1. Include plans, elevations, sections, attachment details, and required clearances.
 - 2. Indicate dimensions, weights, loads, and points of load to building structure.
 - 3. Include diagrams for power, signal, and control wiring.
- C. Samples: For each exposed product and for each color and texture specified.

1.3 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Research reports.
- C. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.
- B. Inspection and acceptance certificates and operating permits.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.6 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of lifts that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.
- B. Regulatory Requirements: Comply with ASME A18.1, "Safety Standard for Platform Lifts and Stairway Chairlifts."

2.2 VERTICAL PLATFORM LIFT < Insert drawing designation>

- A. Vertical Platform Lift, General: Preengineered lift system.
 - 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. Liftavator, Inc.
 - b. Ameriglide Hercules II (Basis of Design)
 - c. Lift-U.
- B. Platform Size: 42 by 54 inches.
- C. Door Operation and Clear Opening Width: Low-energy, power-operated doors that remain open for 20 seconds minimum; end door with minimum 32-inch clear opening width.
- D. Rated Speed: 10 fpm.
- E. Power Supply: Electric.
 - 1. Electrical Characteristics:
 - a. Horsepower: 1/3.
 - b. Voltage: 120-V ac, single phase, 60 Hz.
- F. Emergency Operation: Provide manual operation and battery power system to raise or lower unit to a landing in case of malfunction or power loss.
- G. Self-Supporting Unit: Support vertical loads of unit only at base, with lateral support only at landing levels.

- H. Partial Runway Enclosure: Manufacturer's standard enclosure assembly.
 - 1. Runway Enclosure: Rectangular steel-tube frame with flush steel-sheet panels.
 - 2. Runway-Enclosure Doors: Rectangular steel-tube frame with flush steel-sheet panels.
- I. Platform: Aluminum floor plate with nonskid surface texture.
- J. Platform Enclosure and Door: Extruded-aluminum frame with flush galvanized-steel-sheet panels.
- K. Accessories: Provide units with the following accessories:
 - 1. Fold-down seat with seatbelt.
 - 2. Lighting system within lift enclosures as selected by Architect from manufacturer's available products.

2.3 MATERIALS

- A. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
- B. Steel Tubing: ASTM A500/A500M.
- C. Steel Pipe: ASTM A53/A53M; standard weight (Schedule 40) unless otherwise indicated or required by loads.
- D. Steel Sheet: ASTM A1008/A1008M, cold-rolled commercial steel (CS) or ASTM A1011/A1011M hot-rolled, commercial steel (CS); as required for each use.
- E. Galvanized-Steel Sheet: ASTM A653/A653M, G90 zinc coating.
- F. Galvanizing: Hot-dip galvanize items complying with the following:
 - 1. ASTM A123/A123M, for galvanizing steel and iron products.
 - 2. ASTM A153/A153M, for galvanizing steel and iron hardware.
- G. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use, corrosion resistance, and finish indicated; manufacturer's standard strengths and thicknesses for type of use.
 - 1. Extruded Aluminum: ASTM B221.
 - 2. Aluminum Sheet and Plate: ASTM B209.
- H. Stainless-Steel Bars and Shapes: ASTM A276/A276M, Type 304.
- I. Stainless-Steel Tubing: ASTM A554, Grade MT-304.
- J. Stainless-Steel Sheet, Strip, and Plate: ASTM A240/A240M or ASTM A666, Type 304.
- K. Stainless-Steel Floor Plate: ASTM A793.
- L. Glass: Comply with requirements in Section 088000 "Glazing."

WHEELCHAIR LIFTS

- M. Glass: [As indicated by manufacturer's designations] [Match Architect's sample] [As selected by Architect from manufacturer's full range] <Insert requirement> and complying with ASME A18.1.
- N. Acrylic Glazing: ASTM D4802, Category A-1 (cell-cast) or Category A-2 (continuous cast), Finish 1 (smooth or polished), clear or tinted as indicated.
- O. Inserts: Furnish required concrete and masonry inserts and similar anchorage devices for installing structural members, guide rails, machines, and other lift components where installation of devices is specified in another Section.
- P. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.4 FASTENERS

- A. Post-Installed Anchors: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC193 as appropriate for the substrate.
 - 1. Material for Interior Locations: Carbon-steel components zinc-plated to comply with ASTM B633 or ASTM F1941 (ASTM F1941M), Class Fe/Zn 5, unless otherwise indicated.

2.5 FINISHES

- A. Steel Factory Finish: Manufacturer's standard baked-enamel or powder-coat finish.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.
- B. Aluminum Finishes:
 - 1. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Minimum Headroom Clearance: Verify that installed lift will have a minimum headroom of 80 inches above any point on platform floor at any point of travel.
- B. Minimum Headroom Clearance: Verify that installed lift will have a minimum headroom of 79 inches at any point during travel.

3.2 INSTALLATION

- A. General: Comply with ASME A18.1 and manufacturer's written instructions for installation of lifts unless otherwise indicated.
- B. Wiring Method: Conceal conductors and cables within housings of units or building construction. Do not install conduit exposed to view in finished spaces.
- C. Coordinate runway doors with platform travel and positioning, for accurate alignment and minimum clearance between platforms, runway doors, sills, and door frames.
- D. Position sills accurately and fill space under sills solidly with nonshrink, nonmetallic grout.
- E. Coordinate platform doors with platform travel and positioning.
- F. Adjust stops for accurate stopping at each landing.
- G. Adjust retractable ramps to meet maximum allowable slope and change-in-elevation requirements, and to lie fully against landing surfaces.
- H. Lubricate operating parts of lift, including drive mechanism, guide rails, hinges, safety devices, and hardware.

3.3 FIELD QUALITY CONTROL

- A. Acceptance Testing: On completion of lift installation and before permitting use of lifts, perform acceptance tests as required and recommended by ASME A18.1 and authorities having jurisdiction.
- B. Operating Test: In addition to acceptance testing, load lifts to rated capacity and operate continuously for 30 minutes between lowest and highest landings served. Readjust stops, signal equipment, and other devices for accurate stopping and operation of system.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain lifts. Include a review of emergency systems and emergency procedures to be followed at time of operational failure and other building emergencies.
- B. Check operation of lifts with Owner's personnel present and before date of Substantial Completion. Determine that operating systems and devices are functioning properly.
- C. Check operation of lifts with Owner's personnel present not more than one month before end of warranty period. Determine that operating systems and devices are functioning properly.

END OF SECTION 144200





1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801

ISSUED FOR REBID 2022.01.12

Stantec Project Number: 191506465

	Sheet List		
NO.	DRAWING NAME	ISSUED FOR 90% REVIEW	ISSUED FO REBID

MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

A000	COVER SHEET	•	•	•	•
LS100	LIFE SAFETY PLAN	•	•	•	•
G001	SIGNAGE PLANS			•	•
ARCHITECTL	JRE				
A001	ARCHITECTURAL ABBREVEATIONS, SYMBOLS, AND NOTES	•	•	•	•
A002	TYPICAL NOTES	•	•	•	•
AD101	GROUND FLOOR DEMOLITION & ABATEMENT PLAN	•	•	•	•
AD102	FIRST FLOOR DEMOLITION & ABATEMENT PLAN	•	•	•	•
A101	GROUND FLOOR CONSTRUCTION PLAN	•	•	•	•
A102	FIRST FLOOR CONSTRUCTION PLAN	•	•	•	•
A111	GROUND FLOOR CEILING PLAN	•	•	•	•
A112	FIRST FLOOR CEILING PLAN	•	•	•	•
A201	ELEVATIONS	•	•	•	•
A202	ELEVATIONS	•	•	•	•
A301	WALL SECTIONS	•	•	•	•
A321	SECTIONS DETAILS	•	•	•	•
A401	INTERIOR ELEVATIONS	•	•	•	•
A501	PLAN DETAILS		•	•	•
A502	TYPICAL DETAILS	•	•	•	•
A601	DOOR AND WINDOW SCHEDULES, AND DETAILS	•	•	•	•
A602	PARTITION TYPES & DOOR DETAILS		•	•	•
MECHANICA	L				
M001	MECHANICAL COVER PAGE	•	•	•	•
M002	MECHANICAL GENERAL NOTES	•	•	•	•
MD101	MECHANICAL GROUND & FIRST FLOOR DEMOLITION PLANS			•	•
M101	MECHANICALGROUND & FIRST FLOOR PLANS	•	•	•	•
M201	MECHANICAL DETAILS	•	•	•	•
M301	MECHANICAL SCHEDULES	•	•	•	•
M401	MECHANICAL SPECIFICATIONS	•	•	•	•
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ELECTRICAL DETAILS

ELECTRICAL DETAILS

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

NO.

PLUMBING



LOCATION MAPS

Sheet List

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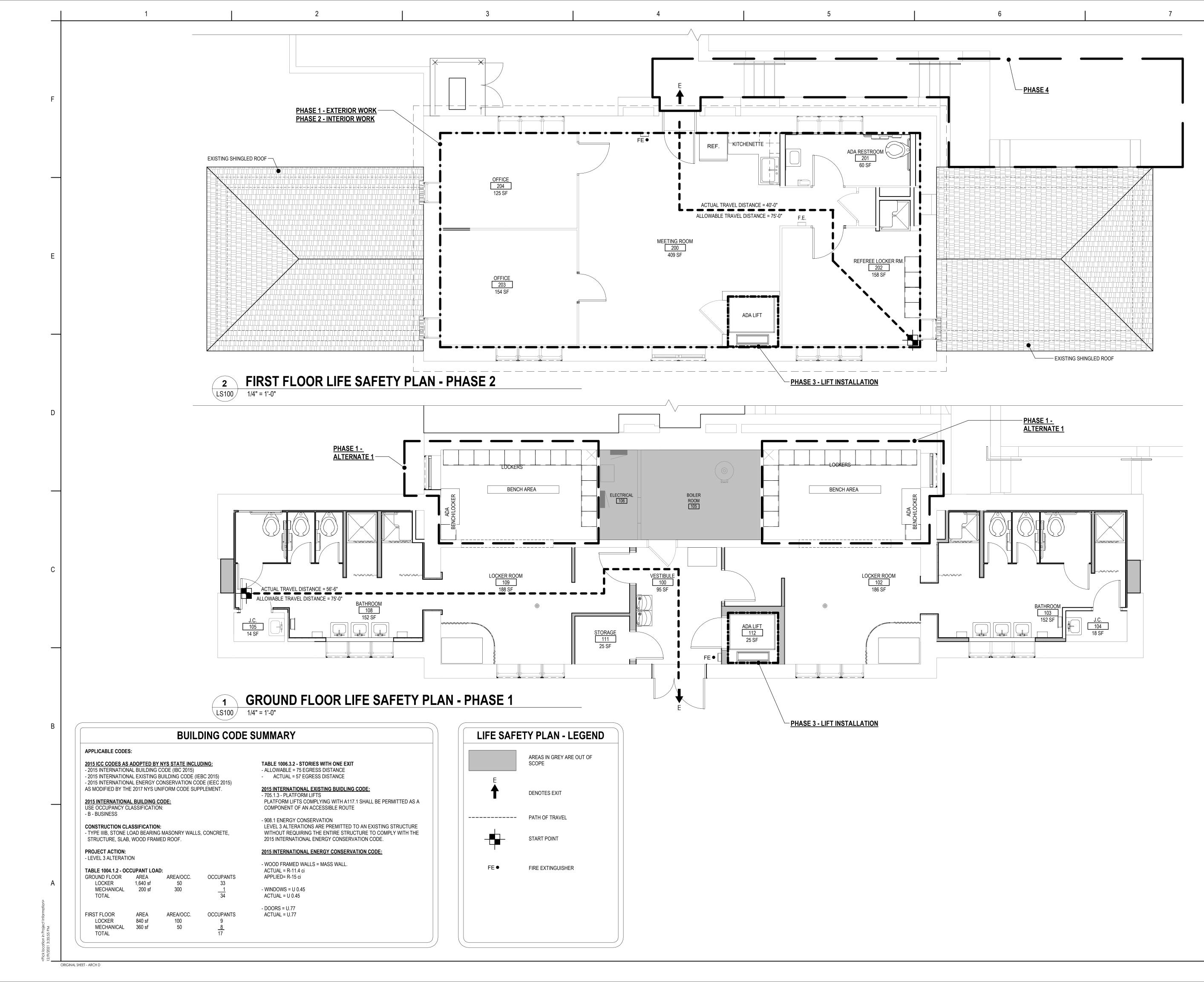
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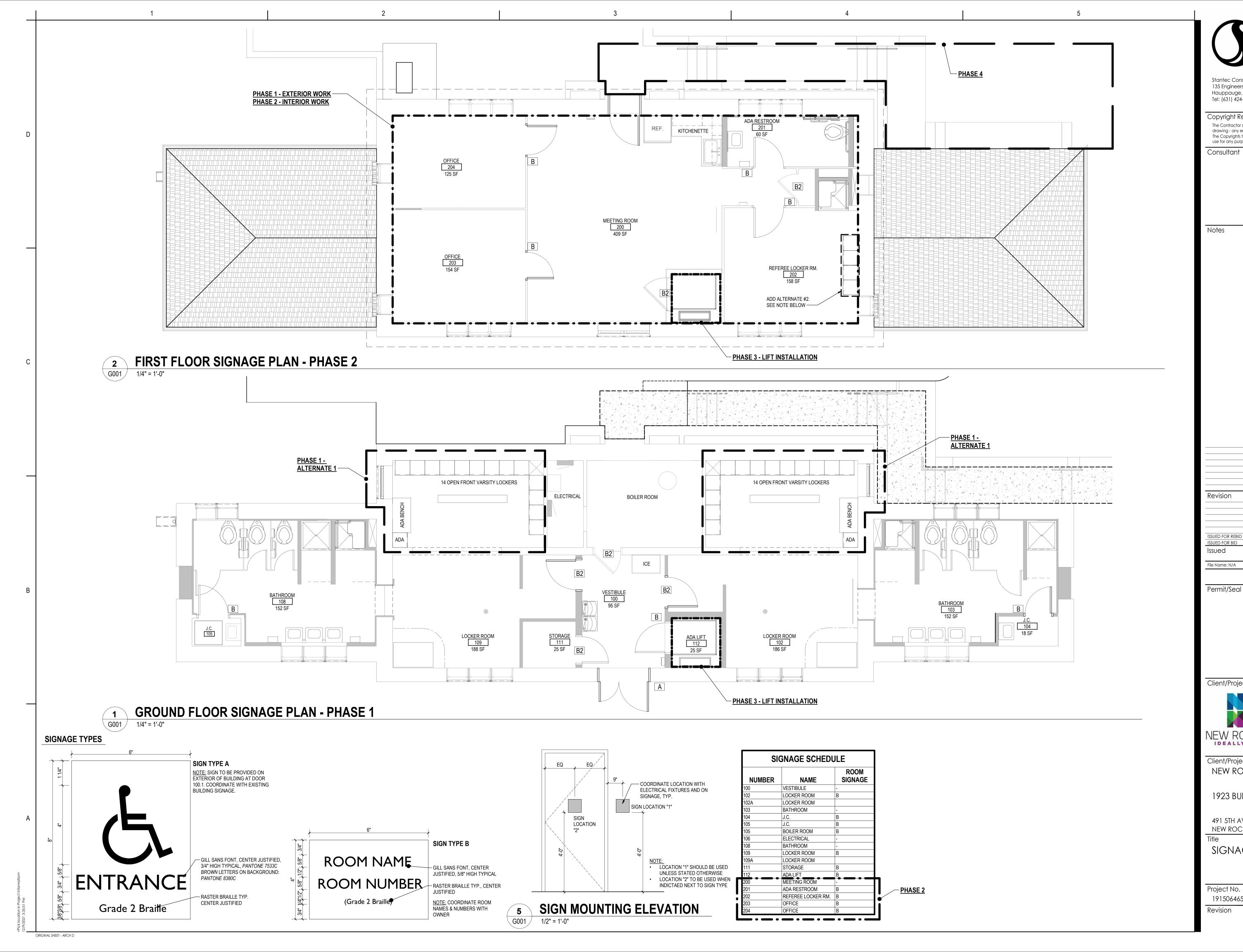
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Revision		Ву	Appd	YYYY.MM.DD
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Notes

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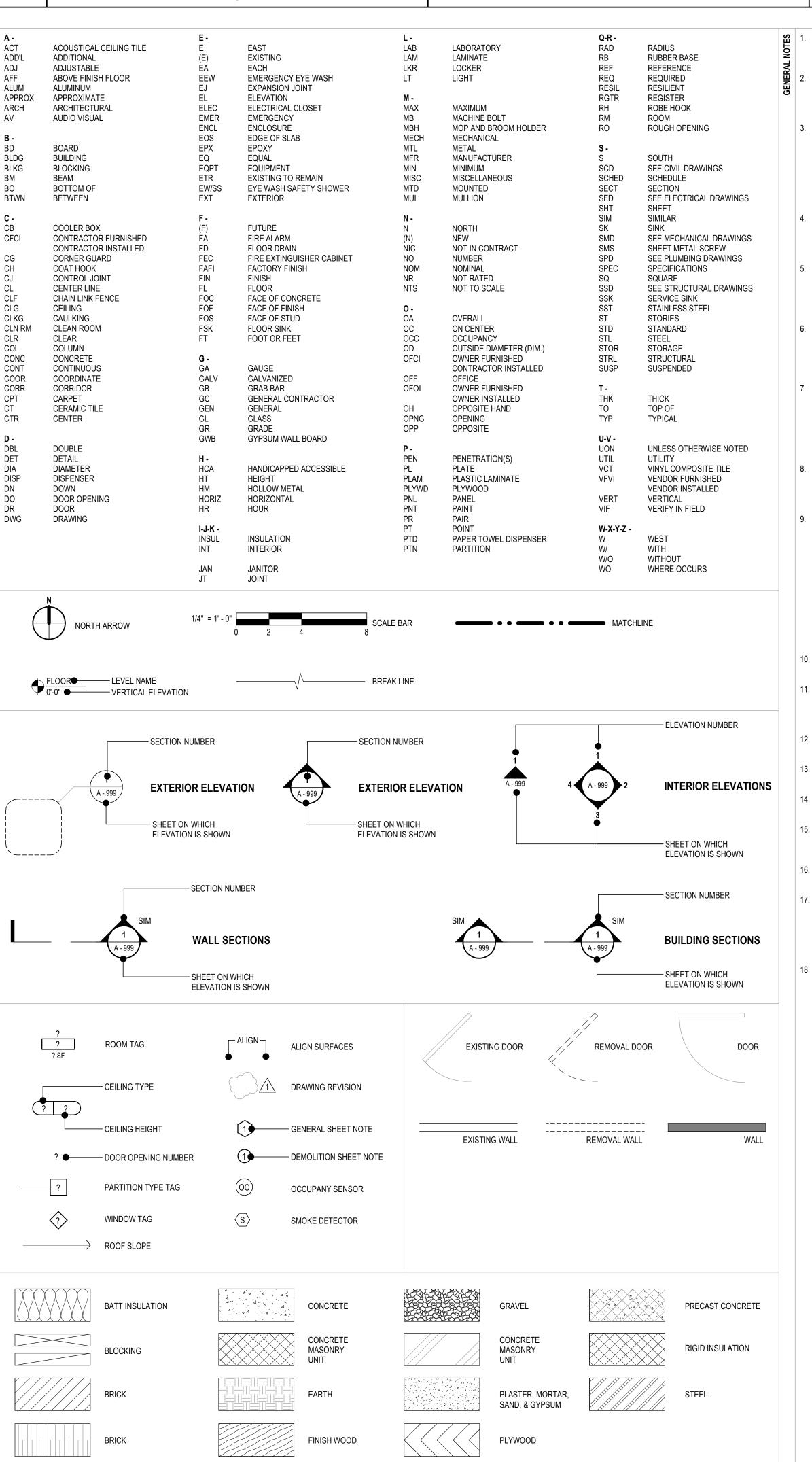
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DESIGN, CONSTRUCTION AND SAFETY SHALL CONFORM TO ALL LOCAL, STATE AND OWNER SPECIFIC CODES, INCLUDING (BUT NOT LIMITED TO), ANSI A117.1, AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED.

THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE, REGARDLESS OF WHETHER OR NOT ALL WORK OR EACH ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.

WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. WHERE ITEMS CAN NOT BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.

4. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SITE AND FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT / ENGINEER AND REQUEST CLARIFICATION.

DRAWINGS DO NOT INDICATE ALL DEMOLITION / REMOVALS. ALL CONTRACTORS ARE TO REFER TO DRAWINGS, SPECIFICATIONS AND VERIFY FIELD CONDITIONS TO DETERMINE FULL SCOPE AND PARTICULARS OF REMOVALS AS REQUIRED FOR AND COORDINATED WITH THE NEW WORK PRIOR TO COMMENCING WORK. VERIFY AND CONFIRM WITH OWNER WHICH ITEMS ARE TO BE SAVED FOR OWNER'S USE OR REINSTALLATION BY CONTRACTOR.

6. CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL COORDINATED INSTALLATION. PRIOR TO ROUGH-IN, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.

ALL CONTRACTORS ARE TO COORDINATE THE WORK OF EACH OTHER, SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, VERIFY AND CONFIRM WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.

REMOVE DEBRIS AND OTHER MATERIALS RESULTING FROM DEMOLITION FROM SITE AS DEMOLITION WORK PROGRESSES. REMOVE RUBBISH FROM JOB SITE REGULARLY AND LEAVE PREMISES AND WORK IN CLEAN CONDITION. RUBBISH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE APPROPRIATELY DISPOSED OF.

PRIOR TO COMPLETION, CLEAN PREMISES FOR OCCUPANCY BY OWNER. CLEANING SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

- A. REMOVAL OF GREASE, MASTIC, ADHESIVE, DUST, DIRT, STAINS, LABELS AND OTHER FOREIGN MATERIALS FROM EXPOSED SURFACES.
- B. THE EXTERNAL SURFACE OF ALL EQUIPMENT SHALL BE CLEANED AT THE COMPLETION OF THE WORK TO REMOVE ALL CONCRETE, DUST AND DIRT, WELDING AND CUTTING SPLATTER, ETC.
- C. PRIOR TO FINAL COMPLETION, OR OWNER OCCUPANCY, CONTRACTOR SHALL CONDUCT AN INSPECTION OF SIGHT EXPOSED SURFACES, AND ALL WORK AREAS, TO VERIFY THAT THE ENTIRE WORK IS CLEAN.

10. ALL DIMENSIONS ARE FROM FACE OF MASONRY, FACE OF EXISTING WALL FINISH, CENTERLINE OF NEW STUD WALL.

11. THE CONTRACTOR SHALL EXTENSIVELY REVIEW EXISTING CONDITIONS AT THE PROJECT SITE PRIOR STARTING WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INSTALLATION OF WORK AND MAY REQUIRE MODIFICATION OF EXISTING CONDITIONS FOR PROPER INSTALLATION. THE CONTRACTOR SHALL BE COMPLETE TO INSTALL.

12. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL SUBCONTRACTORS, AND WITH THOSE UNDER SEPARATE CONTRACT WITH THE OWNER.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR PROPER INSTALLATION OF MATERIAL AND EQUIPMENT.

14. CONTRACTOR TO COORDINATE WITH OWNER TO ENSURE SECURITY AND TO COMMUNICATE UTILITY SHUTDOWNS.

15. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTAIN ALL DEBRIS WITHIN THE CONSTRUCTION AREA AND TO MINIMIZE NOISE RELATED TO CONSTRUCTION OPERATIONS.

16. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR JOB CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY.

17. ALL PARTS OF THE WORK - INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC, - MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING REGULATIONS OF ALL FEDERAL, STATE DISTRICT, AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS, NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO FOR A PERMIT WORK CONTRARY TO A GOVERNING REGULATION.

18. FINISH MATERIALS SHALL COMPLY WITH BUILDING CODE OF THE STATE OF NEW YORK.

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Permit/Seal



Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE,

NEW ROCHELLE, NY 10801 Title

ARCHITECTURAL ABBREVEATIONS, SYMBOLS, AND NOTES

> Scale 12" = 1'-0"

Revision

Project No. 191506465



	1	2
		1 - GENERAL NOTES
		A. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARC ELECTRICAL, PLUMBING AND SPECIFICATIONS.
		 B. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEV OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START OF
		C. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MA THE WORK.
		D. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AN
D		E. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEAN AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESP OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES PERFORMING ANY OF THE WORK.
		F. OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLU HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CO RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES.
		G. COORDINATE WORK OF ALL DISCIPLINES (ARCH., STRUCT., ELECT., ETC.) WITH REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS PER
		H. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXIST
		I. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE D RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND A
		J. SEE SPECIFICATIONS FOR FULL SCOPE OF REQUIREMENTS APPLICABLE TO T
		K. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PER SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHAL ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGI ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECT
		2 - DESIGN CRITERIA
		A. FLOOR LIVE LOADS OFFICE - 50 PSF
		ASSEMBLY AREAS - 100 PSF
0		B. BUILDING IS DESIGNED USING 2016 NEW YORK UNIFORM CODE SUPPLEMENT TO INTERNATIONAL BUILDING CODE.
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3	3 - CONCRETE WORK	
E ARCHITECTURAL, MECHANICAL,	A. SUBMITTALS	A. SEE STRUCTURAL AND AR
ELEVATIONS, ETC., IN FIELD AND NOTIFY THE RT OF CONSTRUCTION OR SHOP DRAWINGS.	a. SUBMIT SHOP DRAWINGS SHOWING FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. DETAILING SHALL COMPLY WITH THE ACI DETAILING MANUAL.	B. SUBMITTALS a. SUBMIT SHOP DRAWI
R, MATERIAL AND EQUIPMENT PROPER FOR	b. SUBMIT CONCRETE MIX PROPORTIONS WITH SUPPORTING TEST DATA, MATERIAL CERTIFICATIONS AND PRODUCT DATA, TO DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS BELOW AND THE PROJECT SPECIFICATIONS.	COMPLYING WITH AC C. SUBMIT DESIGN MIXES FO
S AND REQUIREMENTS.	B. COMPLY WITH THE FOLLOWING CODES AND STANDARDS, LATEST EDITION:	D. MATERIALS
MEANS, METHODS, TECHNIQUES, SEQUENCES	a. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".	a. CONCRETE MASONRY WEIGHT AUTOCLAVE
RESPONSIBLE FOR THE ACTS OR OMISSIONS DYEES OR ANY OTHER PERSONS	b. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".	SHRINKAGE SHALL BE b. MORTAR: ASTM C270,
	c. ACI DETAILING MANUAL, LATEST EDITION.	c. f'm=1,500 psi d. REINFORCEMENT BAF
ICLUDING THE USE OF SAFETY GLASSES,	d. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".	e. JOINT REINFORCEME f. FINE GROUT: ASTM C
	 e. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE". f. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE". 	D. TESTING PROCEDURE:
WITH EXISTING CONDITIONS, SPECIAL S PERFORMING WORK AT THE SITE.	C. MATERIALS:	E. BLOCKS SHALL BE TESTED
NING, BRACING, ETC., AS NEEDED FOR THE	a. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.	F. STRENGTH OF MASONRY WITH ACI 530.1, SPECIFICA
GE DONE TO EXISTING FEATURES AS A	b. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.	a. GROUT COMPRESSIV
ND AT NO ADDITIONAL COST TO THE OWNER.	c. SUPPORTS FOR REINFORCEMENT:	SHALL BE DETERMINE PREPARED EVERY 50
TO THIS PROJECT.	 (A) FOR SLABS-ON-GRADE USE CONCRETE BRICKS OR CHAIRS TO SUPPORT AND MAINTAIN PROPER LOCATION OF WWF AND REINFORCING BARS. 	G. PROTECT MASONRY WOR
E PERMITTED FOR SHOP DRAWING SHALL REVIEW AND PROVIDE REVIEW STAMP ENGINEER INDICATING UNDERSTANDING AND	 (B) BOLSTERS, CHAIRS, SPACERS, ETC. SHALL BE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI SPECS. FOR EXPOSED TO VIEW SURFACES WHERE SUPPORTS ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS WHICH ARE PROTECTED BY PLASTIC OR STAINLESS STEEL. 	ALL UNITS SHALL BE LAID UNITS SHALL BE LAID WITH OTHERWISE.
JECT PLANS/SPECIFICATIONS.	d. PORTLAND CEMENT-ASTM C150, TYPE II.	H. PLACE HORIZONTAL REIN
	e. AGGREGATES-ASTM C33.	VERTICAL REINFORCING II LOCATED AS INDICATED. S
A	f. AIR ENTRAINING ADMIXTURE-ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.	I. USE LOW-LIFT GROUTING IS APPROVED BY THE OWI
	g. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.	J. USE UNIT TEST METHOD, J
	a. PROPORTIONING AND DESIGN OF MIXES:	K. ALL EXPOSED MORTAR JC
	b. PREPARE DESIGN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH	
NT TO THE 2015	 OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318. c. NORMAL WEIGHT CONCRETE-MINIMUM 28 COMPRESSIVE STRENGTH 4000 PSI. (TYP. UNO) COORDINATE WITH 	
	SPECIFICATIONS.	A. STRUCTURAL STEEL WOR
	E. FORM WORK:	COLUMNS, CHANNELS, AN
	a. PROVIDE OPENINGS IN CONCRETE FORM WORK TO ACCOMMODATE WORK OF OTHER TRADES.	B. COMPLY WITH THE FOLLO
	F. CONCRETE SHALL BE READY MIXED PER ASTM C94. JOB SITE MIXING SHALL NOT BE PERMITTED.	a. AISC STEEL CONSTRU
	G. CONCRETE PLACEMENT: a. THE ADDITION OF WATER TO THE CONCRETE MIX AT THE JOB SITE IS NOT PERMITTED UNLESS SPECIFICALLY	c. CURRENT OSHA EREC
	ALLOWED BY THE OWNER'S REPRESENTATIVE.	C. MATERIALS: a. ANGLES, BARS, PLATI
	b. PROTECT CONCRETE WORK FROM THE DETRIMENTAL EFFECTS OF COLD TEMPERATURES IN COMPLIANCE WITH ACI 306.	b. HIGH STRENGTH BOL c. WELDS: E70XX ELECT
	c. PROTECT CONCRETE WORK FROM THE DETRIMENTAL EFFECTS OF HOT WEATHER OR WINDY CONDITIONS IN COMPLIANCE WITH ACI 305.	D. ALL STRUCTURAL STEEL S STRENGTH BOLTED UNLES
	d. PLACE FLOOR SLABS TO SURFACE LEVEL TOLERANCES OF FF20-FL17.	E. ALL BOLTS SHALL BE TIGH
	H. CONCRETE FINISHES:	BOLTS SHALL BE USED AT
	a. FORMED SURFACES EXPOSED TO VIEW - SMOOTH RUBBED FINISH. SLAB FINISH - PROVIDE TROWEL FINISH.	F. PROVIDE ANCHORS AND C
	I. PROVIDE MOISTURE CURE TO SLAB SURFACES FOR 7 DAYS BY EITHER COVERING THE CONCRETE WITH WATER, APPLYING A CONTINUOUS WATER-FOG SPRAY, OR COVERING WITH AN ABSORPTIVE COVER. CHEMICAL CURING COMPOUNDS WILL NOT BE ALLOWED ON FLOOR SLABS.	G. STEEL SHALL RECEIVE ON H. SHOP DRAWINGS: SUBMIT AND ASSEMBLY OF STRUC
	J. THE OWNER WILL EMPLOY A TESTING AGENCY TO PERFORM SAMPLING AND TESTING AND SUBMIT TEST REPORTS.	I. ALL STEEL EXPOSED TO V
	K. SAMPLING AND TESTING OF CONCRETE SHALL INCLUDE:	J. ALL CONNECTIONS NOT S
	a. SLUMP-ASTM C143-ONE TEST AT POINT OF PLACEMENT FOR EACH TRUCK LOAD OF EACH TYPE OF CONCRETE UNTIL CONCRETE CONSISTENCY IS UNIFORM, AND AT LEAST EVERY THIRD TRUCK THEREAFTER; ADDITIONAL TESTS WHEN CONCRETE C CONSISTENCY SEEMS TO HAVE CHANGED.	K. ALL BOLTED CONNECTION
	 b. AIR ENTRAINMENT-ASTM C173 VOLUMETRIC METHOD, OR ASTM C231 PRESSURE METHOD, ONE FOR EACH DAY'S PLACEMENT OF EACH TYPE OF AIR ENTRAINED CONCRETE. 	L. ALL WELDED CONNECTION
	c. CONCRETE TEMPERATURE-TEST HOURLY WHEN AIR TEMPERATURE IS 41°F AND BELOW OR WHEN 80°F AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST CYLINDERS IS MADE.	
	d. COMPRESSION TEST SPECIMENS-ASTM C31-ONE SET OF 6 CYLINDERS FOR EACH COMPRESSIVE STRENGTH	
	TEST. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS. COMPRESSIVE STRENGTH TESTS-ASTM C39-ONE SET FOR EACH DAY'S PLACEMENT EXCEEDING 5 CUBIC YARDS PLUS ADDITIONAL SETS FOR EACH 50 CUBIC YARDS OVER AND ABOVE THE FIRST 25 CUBIC YARDS OF EACH CONCRETE CLASS PLACED IN ONE DAY; TWO SPECIMENS TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND TWO SPECIMENS RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.	
	e. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF fc=4000 PSI (TYPICAL UNLESS NOTED)	
	f. ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS (TYP. UNO)	

4 - MASONRY

ARCHITECTURAL DRAWINGS FOR LOCATION, SIZE AND SPACING OF REINFORCED MASONRY.

AWINGS FOR FABRICATION, BENDING AND PLACEMENT OF MASONRY REINFORCEMENT I ACI DETAILING MANUAL. S FOR EACH TYPE GROUT AT LEAST 15 DAYS PRIOR TO START OF WORK.

ONRY UNITS: HOLLOW OR SOLID UNITS ASTM C90. ALL UNITS SHALL BE TYPE I,NORMAL AVED CURED. MOISTURE CONTENT SHALL NOT EXCEED 30% OF MAXIMUM ABSORPTION, AND LL BE LESS THAN 0.35% AS PER ASTM C426. C270, TYPE S. NO MASONRY CEMENT WILL BE ALLOWED.

BARS: ASTM A615 GRADE 60. EMENT: TRUSS TYPE WITH 0.148 INCH DIAMETER M C476.

TED PER ASTM C-140 FOR STRENGTH, ABSORPTION AND SIZE.

NRY CONSTRUCTION SHALL BE DETERMINED BY UNIT STRENGTH METHOD IN ACCORDANCE IFICATION FOR MASONRY STRUCTURES, SECTION 1.4.

SSIVE STRENGTH SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C-1019. GROUT SLUMP MINED IN ACCORDANCE WITH ASTM C-143. ONE SET OR MORTAR CUBES (3 EACH) SHALL BE Y 5000 SQ. FT. OF WALL CONSTRUCTED.

WORK FROM DAMAGE DUE TO OTHER WORK AND THE WEATHER AS RECOMMENDED BY NCMA. LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. SOLID WITH FULL HEAD AND BED JOINTS, 3/8" THICK. LAY IN FULL RUNNING BOND UNLESS INDICATED

REINFORCING ON FULL MORTAR BED AT 16" O.C. MIN. OR AS INDICATED ON DRAWINGS. ING IN MASONRY WHERE SHOWN SHALL BE PLACED IN GROUT FILLED CORES AND PROPERLY ED. SPLICES SHALL BE MINIMUM 48 X BAR DIAMETER.

NG TECHNIQUES TO FILL CORES, UNLESS HIGH-LIFT GROUTING (VERTICAL PLACEMENT >4'0") OWNER'S REPRESENTATIVE IN WRITING.

OD, ACCORDING TO ASTM C -140, TO VERIFY MATERIALS PROPERTIES.

R JOINTS SHALL BE TOOLED.

5 - STRUCTURAL STEEL

/ORK INCLUDES ALL STRUCTURAL STEEL TO BE FURNISHED AND ERECTED, BEAMS, ANGLES, JOISTS, LINTELS, BEARING PLATES, ETC., AS INDICATED ON THE DRAWINGS. LLOWING CODES AND STANDARDS:

STRUCTION MANUAL, ASD, 14TH EDITION ING SOCIETY (AWS) DI.1 "STRUCTURAL WELDING CODE STEEL". ERECTION AND FABRICATION REQUIREMENTS.

PLATES AND CHANNELS: ASTM A-36. BOLTS: ASTM A 325. LECTRODES.

EL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE HIGH-ILESS SHOWN OTHERWISE.

TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. SLIP CRITICAL D AT ALL MOMENT CONNECTIONS.

ND OTHER DEVICES TO BE BUILT INTO CONCRETE WORK.

E ONE COAT OF PRIMER PAINT, UNLESS NOTED OTHERWISE.

BMIT SHOP DRAWINGS INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION TRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMS.

O WEATHER SHALL BE HOT DIPPED GALVANIZED.

T SPECIFICALLY DETAILED SHALL BE EITHER BOLTED OR WELDED CONNECTIONS.

TIONS SHALL BE (2) 3/4" DIA. A325 BOLTS MINIMUM (TYP. UNO).

TIONS SHALL BE IN 3/16" FILLET WELDED ALL AROUND (TYP. UNO).

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Revision



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

TYPICAL NOTES

Project No. 191506465

Scale 12" = 1'-0" Drawing No.

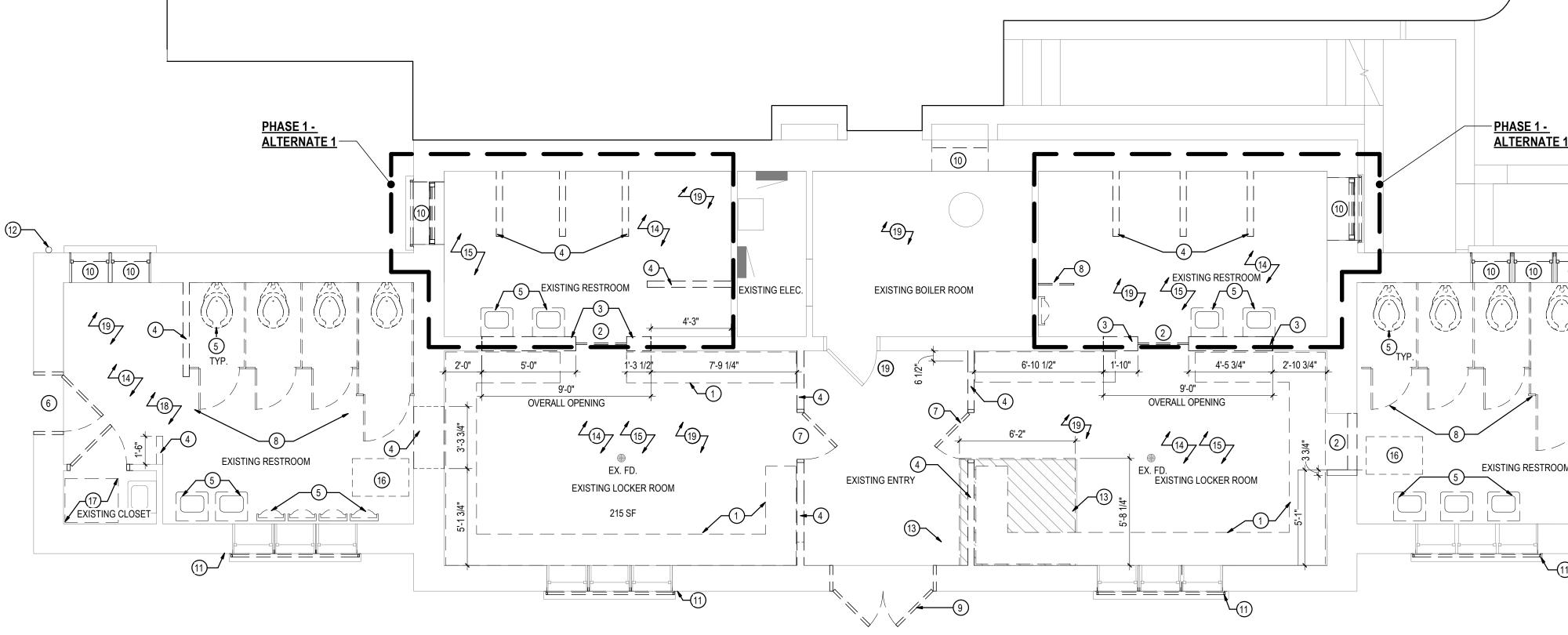


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Drawing No.

PHASE 1 - ALTERNATE 1 -**DEMOLITION SCOPE**

- 3. SHORE EXISTING STRUCTURE AND REMOVE MASONRY WALL AS INDICATED. SEE DETAIL 1/A502.
- 4. REMOVE EXISTING NON-BEARING PARTITION WALL AS INDICATED.
- 5. REMOVE EXISTING PLUMBING FIXTURES AS INDICATED. REFER TO PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION SCOPE.
- 8. REMOVE EXISTING TOILET PARTITIONS, AND CASEWORK AS INDICATED IN THEIR ENTIRETY, INCLUDING ASSOCIATED HARDWARE AND ACCESSORIES.
- 14. REMOVE ALL FLOOR FINISHES AND PREPARE FLOOR FOR EPOXY FLOOR INSTALLATION.
- 15. CLEAN AND PREPARE WALLS FOR EPOXY PAINT SYSTEM. 19. EXISTING LIGHT FIXTURES TO BE REMOVED - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



GROUND FLOOR DEMOLITION PLAN - PHASE 1 \AD101 / 1/4" = 1'-0"

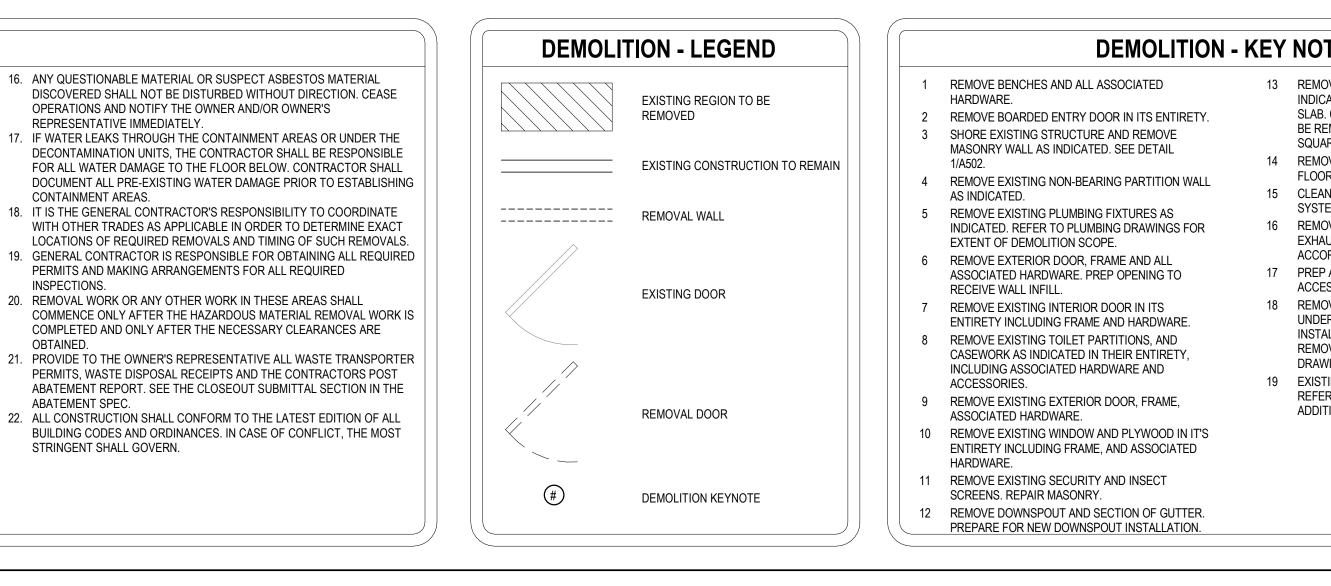
DEMOLITION - SHEET NOTES

- GENERAL CONTRACTOR. ANY DEMOLITION OR REMOVAL INDICATED OR IMPLIED BY THESE DRAWINGS IS SHOWN IN GENERAL TO PROVIDE THE FULL EXTENT OF DEMOLITION. IT IS NOT TO BE CONSIDERED A RECORD DRAWING OF EXISTING CONDITIONS. IT S THE GENERAL CONTRACTORS RESPONSIBILITY TO DETERMINE THE FULL SCOPE, INTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.
- ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL GOVERNING BUILDING CODES, LOCAL CODES, AND ALL RULES AND REGULATIONS AS ESTABLISHED BY THE AUTHORITIES HAVING JURISDICTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS. DO NOT SCALE DRAWINGS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS INDICATED
- GRAPHICALLY OR AS NOTED. GENERAL CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IN IDENTIFICATION OF MATERIALS REQUIRED ALL EXISTING FIRE & LIFE SAFETY DEVICES AND SYSTEMS TO REMAIN
- AND SHALL BE FULLY OPERATIONAL AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION. WHERE SERVICE MUST BE INTERRUPTED, G.C. SHALL PROVIDE APPROVED PERSONNEL OR SYSTEMS TO SERVE AS TEMPORARY FIRE WATCH. ALL FIRE-WATCH PERSONNEL AND PROCEDURES SHALL COMPLY WITH BUILDING OWNER REQUIREMENTS
- AND ALL AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY LIGHTING THROUGHOUT SPACE AS REQUIRED BY BUILDING OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION. FOR ANY CUTS/PENETRATIONS THROUGH THE ROOF G.C. SHOULD
- CONTRACT WITH OWNER REQUIRED VENDORS TO MAINTAIN ANY WARRANTIES.

- SCOPE OF DEMOLITION IS GENERALLY INDICATED ON THIS DRAWING FOR 8. ASBESTOS-CONTAINING MATERIALS (ACM) ARE ASSUMED TO BE PRESENT WITHIN THE WORK AREA. REFER TO SPECIFICATION AND THE DEMOLITION KEYNOTE LEGEND FOR ASBESTOS CONTAINING MATERIAL FOR REMOVAL. THE RESULTS OF THE TESTING FOR ACM & PCB'S ARE LISTED IN THE BUILDING ASBESTOS SURVEY REPORT BOUND IN THE APPENDIX OF THE SPECIFICATION.
 - 9. THE GENERAL CONTRACTOR SHALL PERFORM ALL CONTRACT WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, NEW YORK STATE DEPARTMENT OF LABOR (N.Y.S.D.O.L.) INDUSTRIAL CODE RULE 56, OSHA, NESHAPS AND ALL OTHER APPLICABLE CODES.
 - 10. ATTEND THE PRE-WORK CONFERENCE AND PROVIDE A DETAILED ABATEMENT WORK PLAN FOR REVIEW. 11. THE GENERAL CONTRACTOR SHALL COORDINATE THE SCHEDULED WORK
 - WITH THE OWNER'S REPRESENTATIVE. 12. CONTRACTOR IS RESPONSIBLE FOR ON-SITE SAFETY AND SECURITY OF THEIR EMPLOYEES DURING ALL HAZARDOUS REMOVAL ACTIVITIES AND ASSUMES RESPONSIBILITY FOR PROCEEDING WITH THE WORK IN A MANNER THAT OFFERS THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED
 - HAZARDS CAUSING SERIOUS HEALTH. HARM. OR INJURY. 13. ASBESTOS WASTE DUMPSTER LOCATION TO BE COORDINATED WITH THE OWNER. VERIFY THAT LANDFILL ACCEPTS ALL TYPES OF HAZARDOUS MATERIALS WITHIN THE PROJECTS SCOPE OF WORK.
 - 14. COORDINATE HOOKUP OF WATER SERVICE FOR DECONTAMINATION PURPOSES WITH THE OWNER'S REPRESENTATIVE. 15. UNDER NO CIRCUMSTANCES SHALL CONTAMINATED LIQUIDS OR DEBRIS
 - ENTER THE EXISTING SEWER SYSTEM. ALL WASTEWATER SHALL BE FILTERED THROUGH A SYSTEM CAPTURING 5.0 MICRON PARTICLE SIZE AND ABOVE.
 - 16. GENERAL CONTRACTOR SHALL RECEIVE APPROVAL FROM THE PROJECT MONITOR BASED ON INSPECTION, TO ASSURE ALL OPENINGS AND PENETRATIONS HAVE BEEN SEALED PROPERLY BEFORE ANY ABATEMENT IS UNDERTAKEN.

- REPRESENTATIVE IMMEDIATELY. CONTAINMENT AREAS.
- INSPECTIONS.
- OBTAINED.
- ABATEMENT SPEC.

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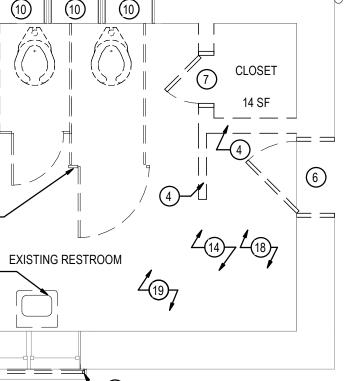
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TEO	
TES	(
DVE CONCRETE SLAB TO EXTENTS ATED. PREP FOR DEPRESSED CONCRETE . CORE EACH CORNER OF SLAB SECTION TO EMOVED AND USE A CHIPPING HAMMER TO RE ALL HOLES.	
INCE ALL FLOOR FINISHES AND PREPARE IR FOR EPOXY FLOOR INSTALLATION.	
N AND PREPARE WALLS FOR EPOXY PAINT EM.	
LINI DVE ENTIRE ASBESTOS CONTAINING UST DUCT FROM UNIT HEATER IN	
RDANCE WITH INDUSTRIAL CODE RULE 56.	

17 PREP AND PREPARE EXISTING HOLE FOR NEW ACCESS HATCH.

18 REMOVE CONCRETE SLAB AS REQUIRED FOR UNDERGROUND PIPE REMOVAL AND INSTALLATION. COORDINATE FULL SCOPE OF PIPE REMOVAL AND INSTALLATION WITH PLUMBING DRAWINGS.

19 EXISTING LIGHT FIXTURES TO BE REMOVED -REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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ABATEMENT PLAN Project No. 191506465

NEW ROCHELLE, NY 10801

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491 5TH AVE,

Scale As indicated Drawing No.

AD101

1923 BUILDING RENOVATION FLOWER PARK

GROUND FLOOR DEMOLITION &

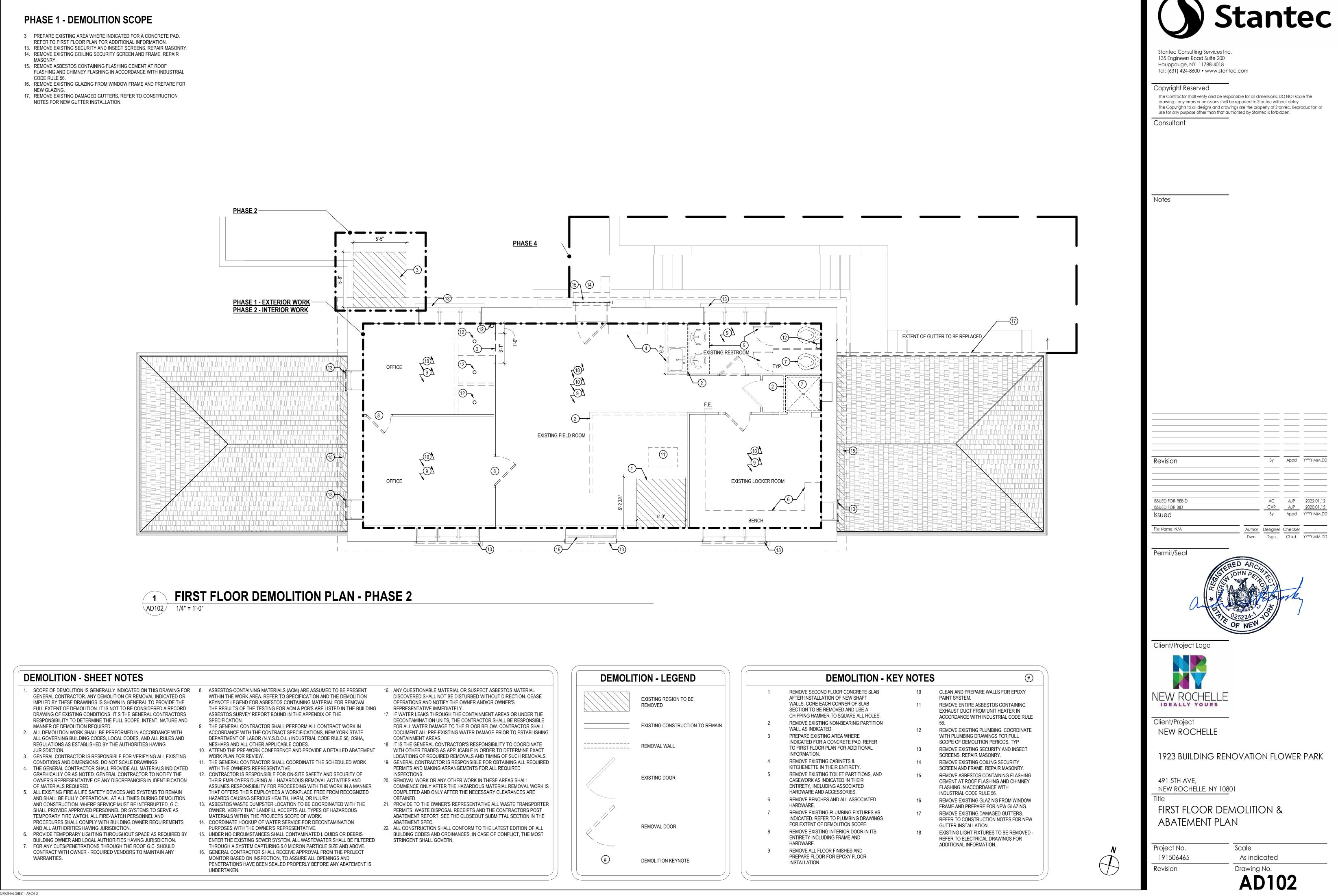
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- MASONRY.

- NOTES FOR NEW GUTTER INSTALLATION.





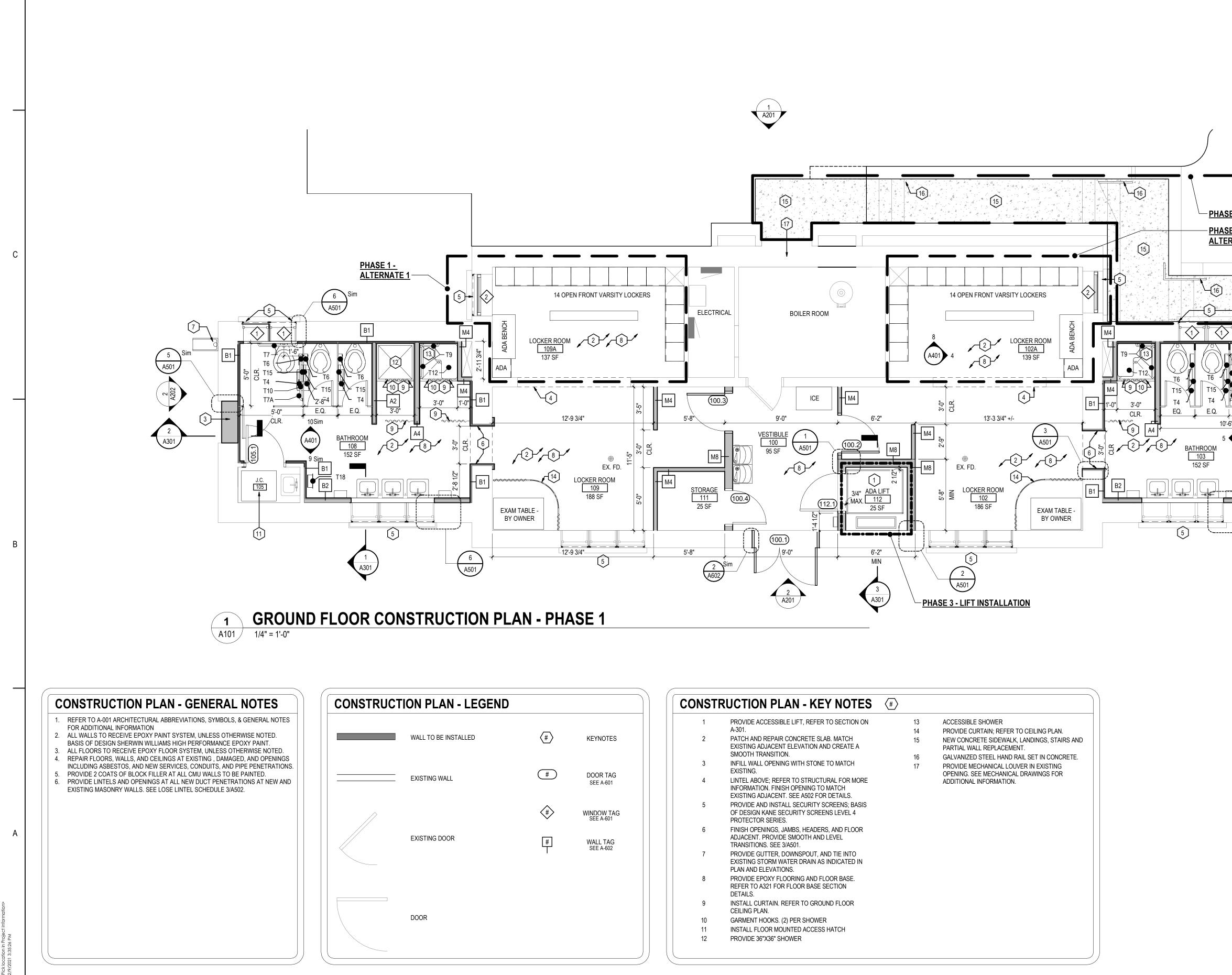
PHASE 1 - ALTERNATE 1 -**NEW WORK SCOPE**

2. PATCH AND REPAIR CONCRETE SLAB. MATCH EXISTING ADJACENT ELEVATION AND CREATE A SMOOTH TRANSITION

- 4. LINTEL ABOVE; REFER TO STRUCTURAL FOR MORE INFORMATION. FINISH OPENING TO MATCH EXISTING ADJACENT.
- 8. PROVIDE EPOXY FLOORING AND FLOOR BASE. REFER TO A321 FOR FLOOR BASE SECTION DETAILS.

PHASE 3 - NEW SCOPE WORK

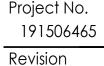
1. PROVIDE ACCESSIBLE LIFT, REFER TO SECTION ON A301.



PHASE 4 - NEW SCOPE WORK

15. NEW CONCRETE SIDEWALK, LANDINGS, STAIRS, AND PARTIAL WALL REPLACEMENT. SEE ADD ALTERNATE #1. 16. GALVANIZED STEEL HANDRAIL SET IN CONCRETE. SEE ADD ALTERNATE #1.





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491 5TH AVE, NEW ROCHELLE, NY 10801 Title GROUND FLOOR CONSTRUCTION PLAN

1923 BUILDING RENOVATION FLOWER PARK

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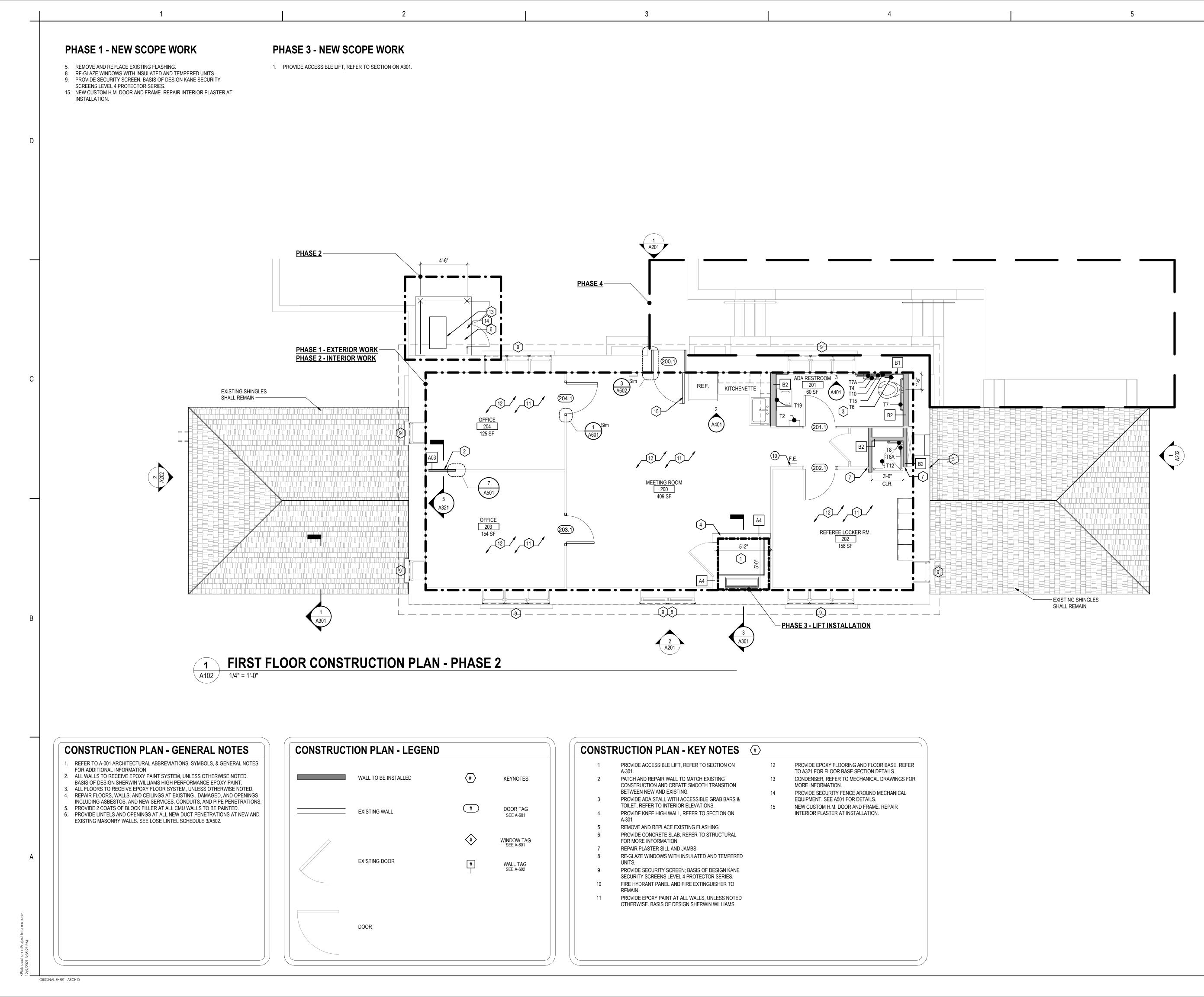
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—<u>PHASE 4</u> -<u>PHASE 1 -</u> **ALTERNATE 1**

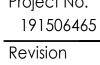
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Project No.

Scale As indicated Drawing No. A102

FIRST FLOOR CONSTRUCTION PLAN

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

1923 BUILDING RENOVATION FLOWER PARK

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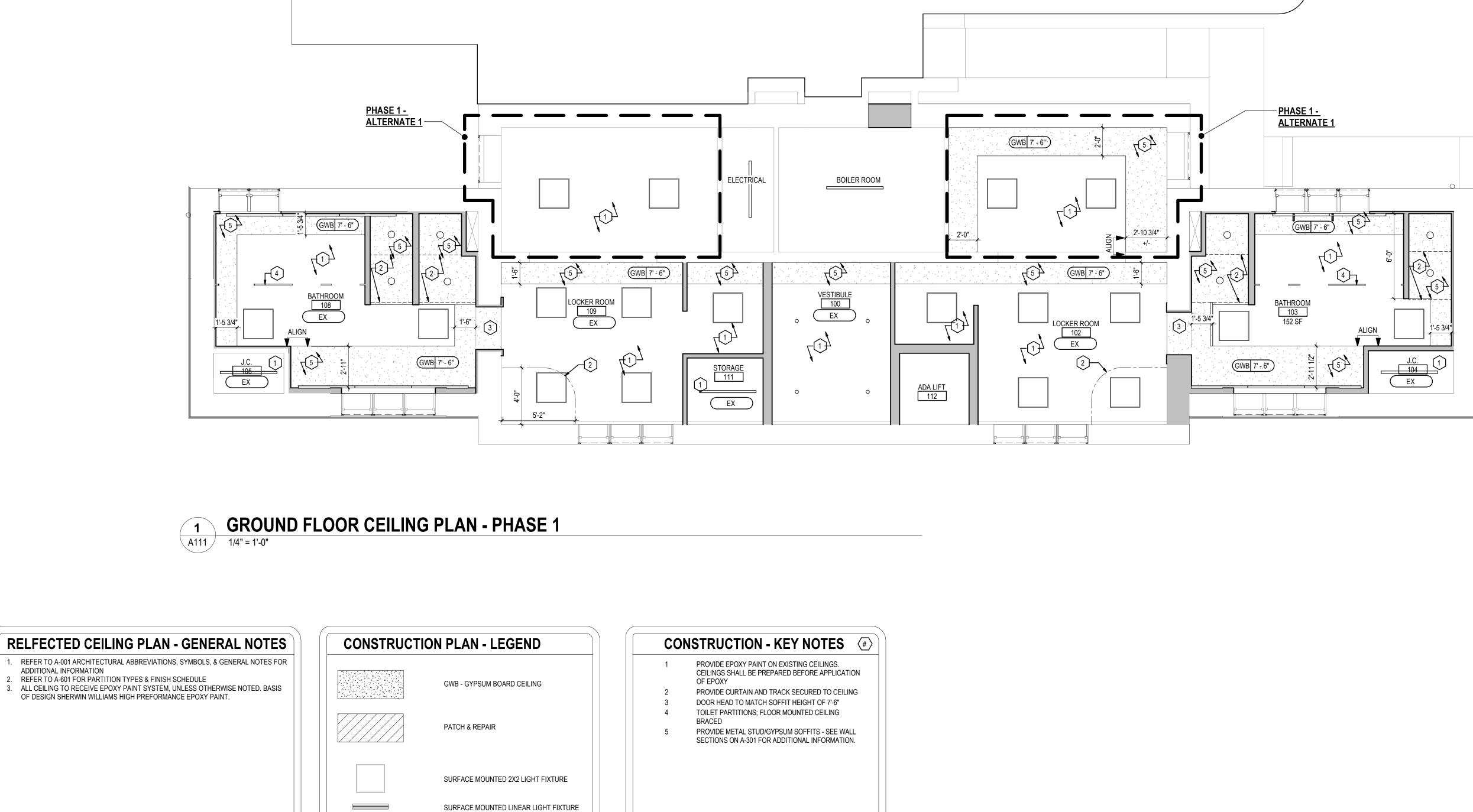


1. PROVIDE EPOXY PAINT ON EXISTING CEILINGS. CEILINGS SHALL BE PREPARED BEFORE APPLICATION OF EPOXY.5. PROVIDE METAL STUD/GYPSUM SOFFITS - SEE WALL SECTIONS ON A-300 FOR ADDITIONAL INFORMATION.

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Project No. 191506465 Revision

As indicated Drawing No.

GROUND FLOOR CEILING PLAN

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

1923 BUILDING RENOVATION FLOWER PARK

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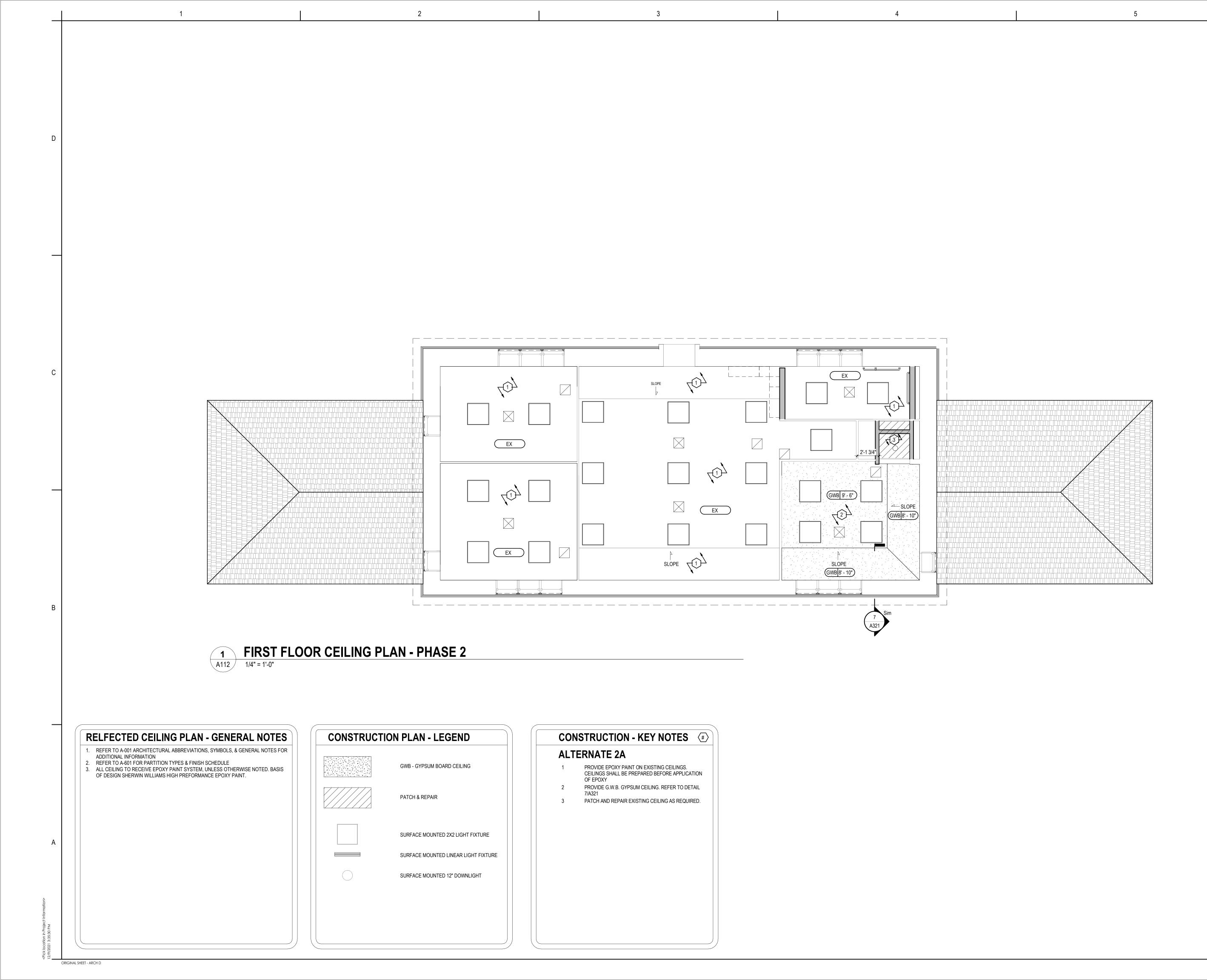
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FIRST FLOOR CEILING PLAN

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

1923 BUILDING RENOVATION FLOWER PARK

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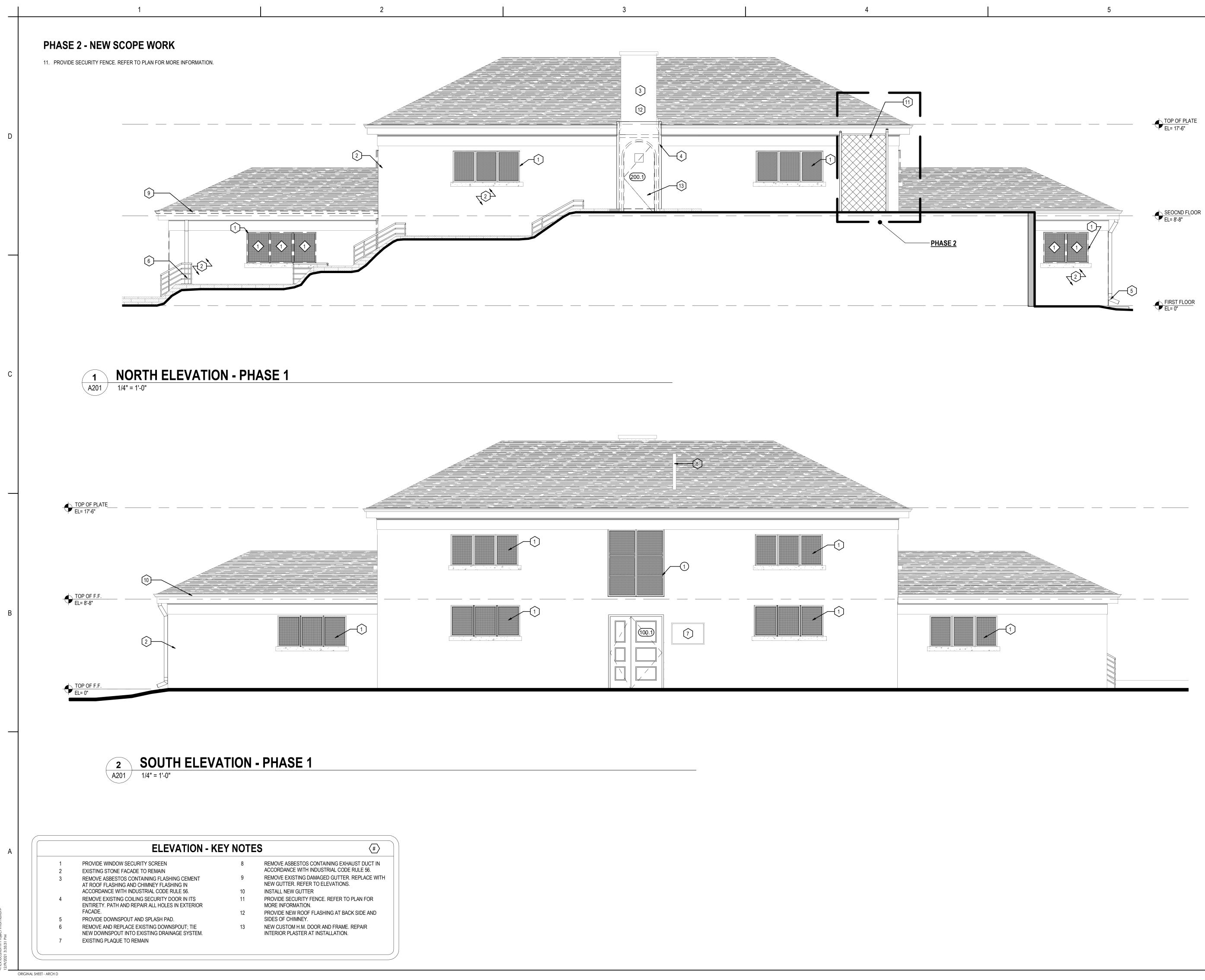
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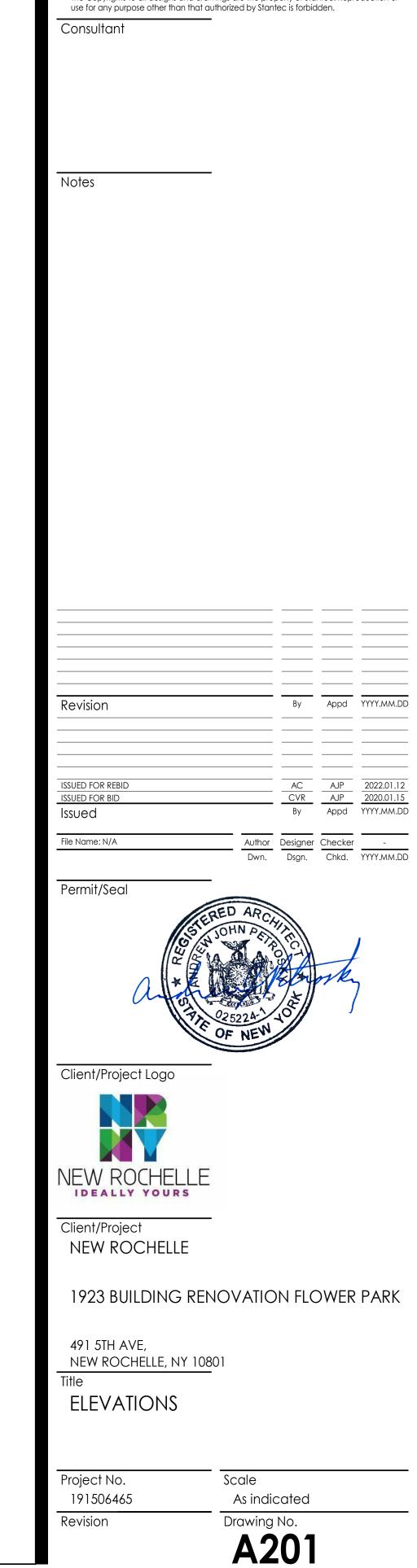
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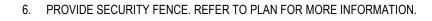
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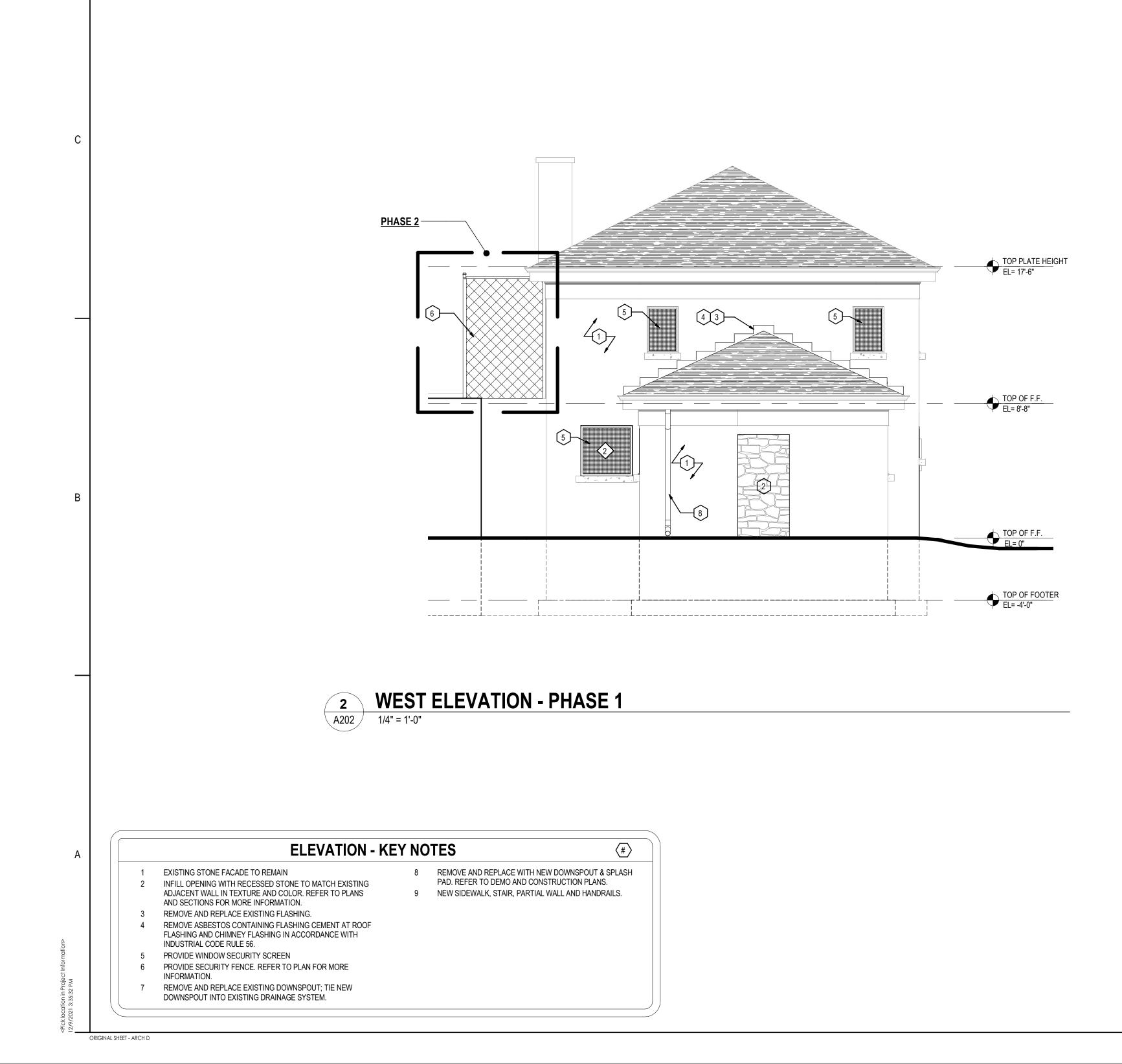
PHASE 2 - NEW SCOPE WORK

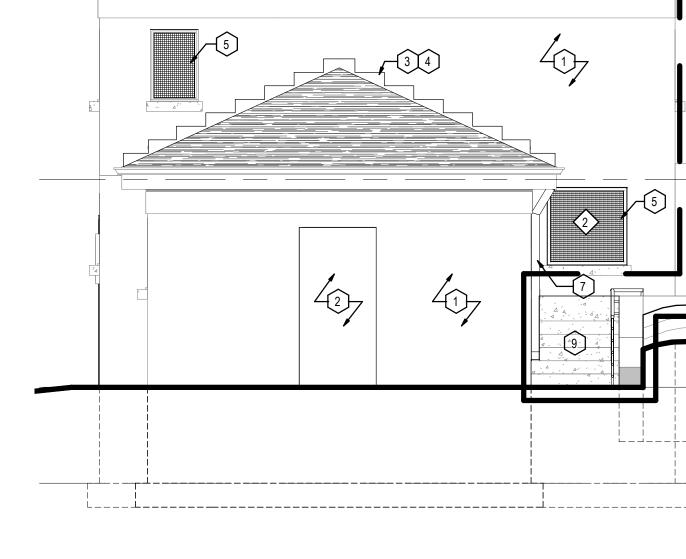
PHASE 4 - NEW SCOPE WORK

PROVIDE SECURITY FENCE. REFER TO PLAN FOR MORE INFORMATION.
 NEW SIDEWALK, STAIR, PARTIAL WALL AND HANDRAILS.

2

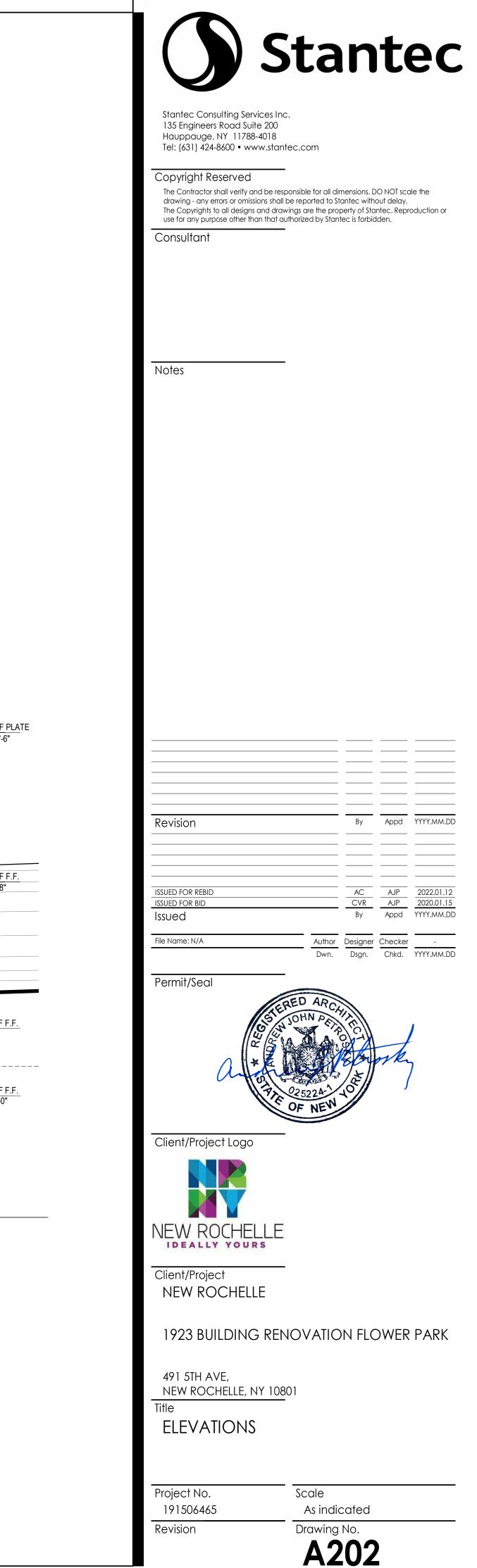


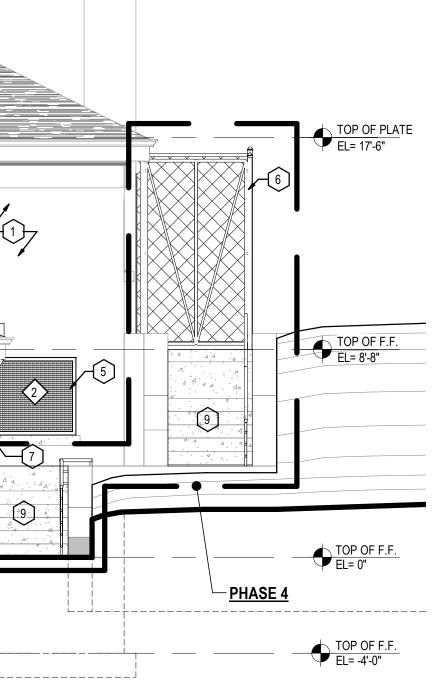


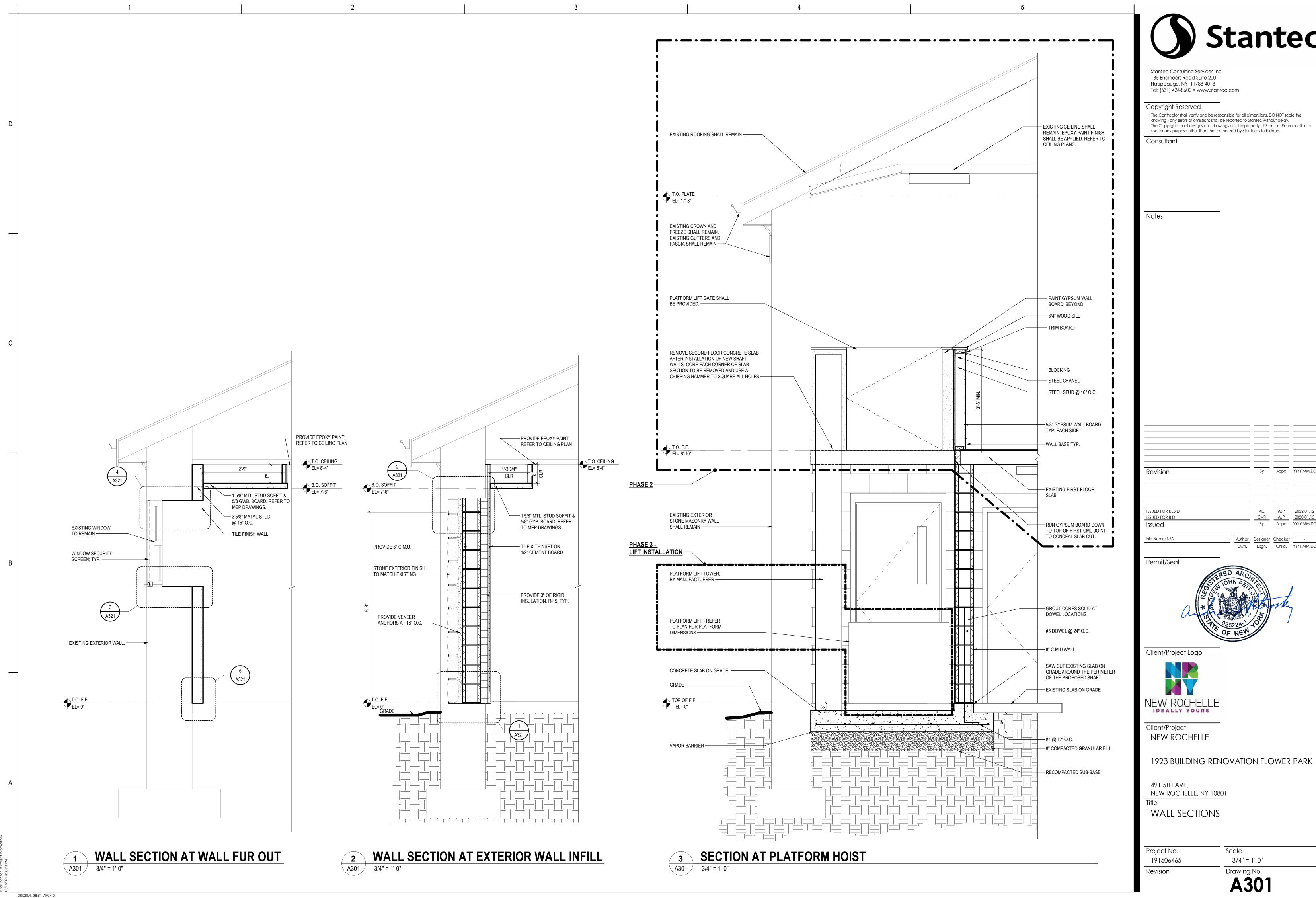


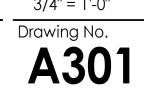
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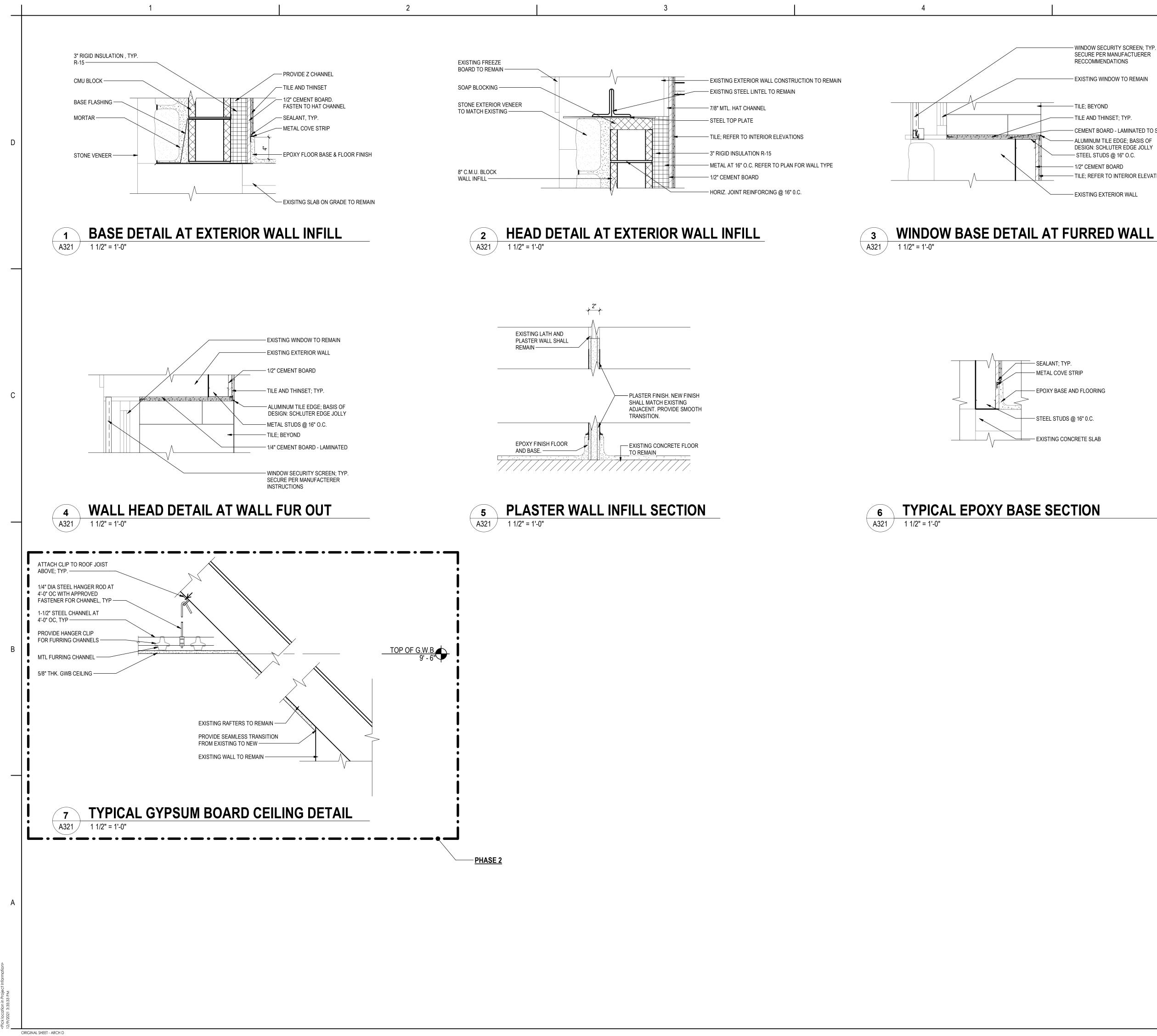
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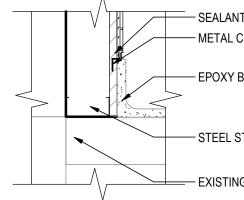
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Scale 3/4" = 1'-0"





	WINDOW SECURITY SCREEN; TYP. SECURE PER MANUFACTUERER RECCOMMENDATIONS
	EXISTING WINDOW TO REMAIN
	TILE; BEYOND
	TILE AND THINSET; TYP.
	CEMENT BOARD - LAMINATED TO SILL
	ALUMINUM TILE EDGE; BASIS OF DESIGN: SCHLUTER EDGE JOLLY - STEEL STUDS @ 16" O.C.
	1/2" CEMENT BOARD
	TILE; REFER TO INTERIOR ELEVATIONS
	EXISTING EXTERIOR WALL
Fl	JRRED WALL

- METAL COVE STRIP

- EPOXY BASE AND FLOORING

- STEEL STUDS @ 16" 0.C.

- EXISTING CONCRETE SLAB

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 ISSUED FOR REBID CVR ISSUED FOR BID Issued By AuthorDesignerChecker07/23/19Dwn.Dsgn.Chkd.YYYY.MM.DD File Name: N/A Permit/Seal Client/Project Logo NEW ROCHELLE Client/Project NEW ROCHELLE 1923 BUILDING RENOVATION FLOWER PARK 491 5TH AVE, NEW ROCHELLE, NY 10801 Title SECTIONS DETAILS

Scale

1 1/2" = 1'-0"

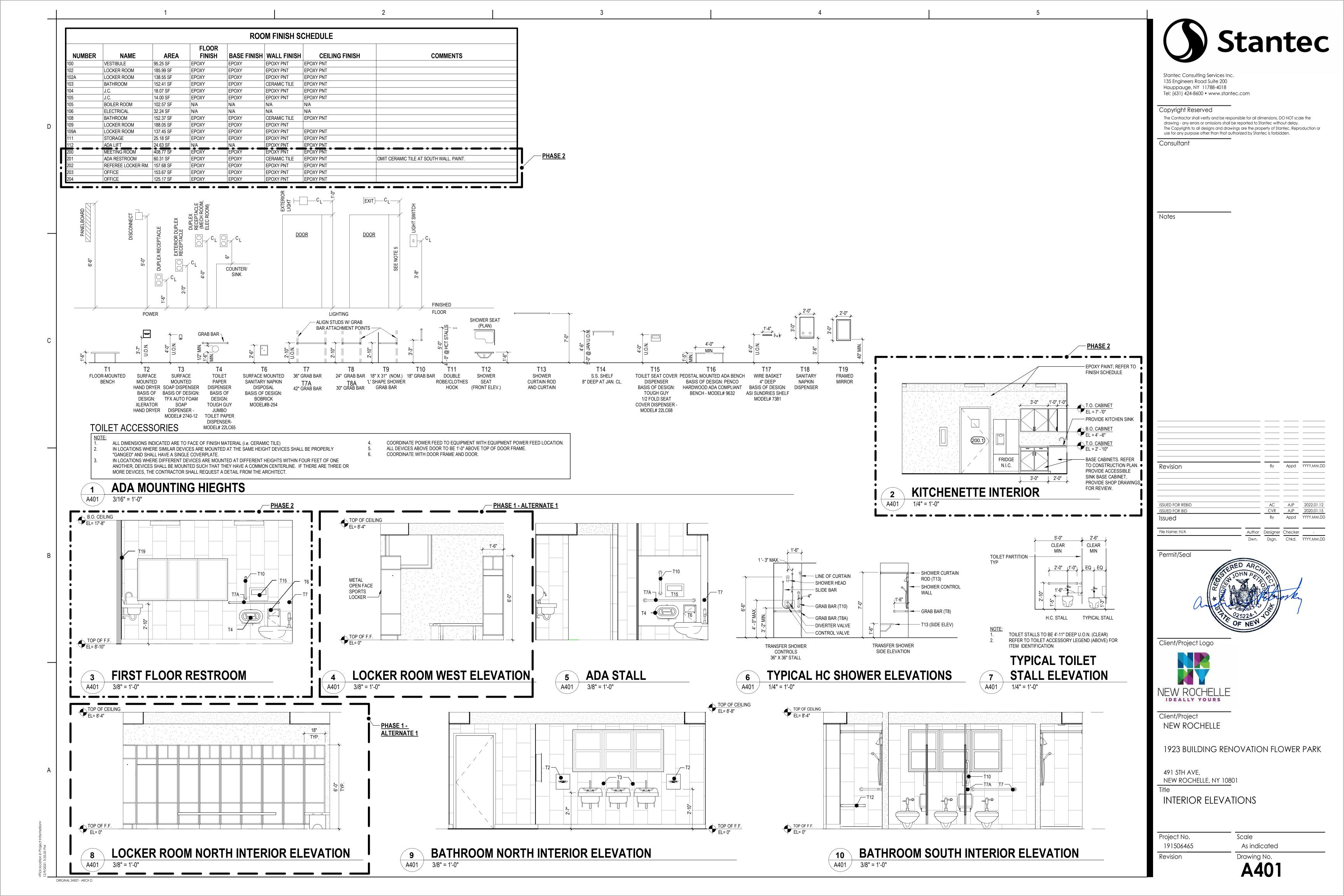
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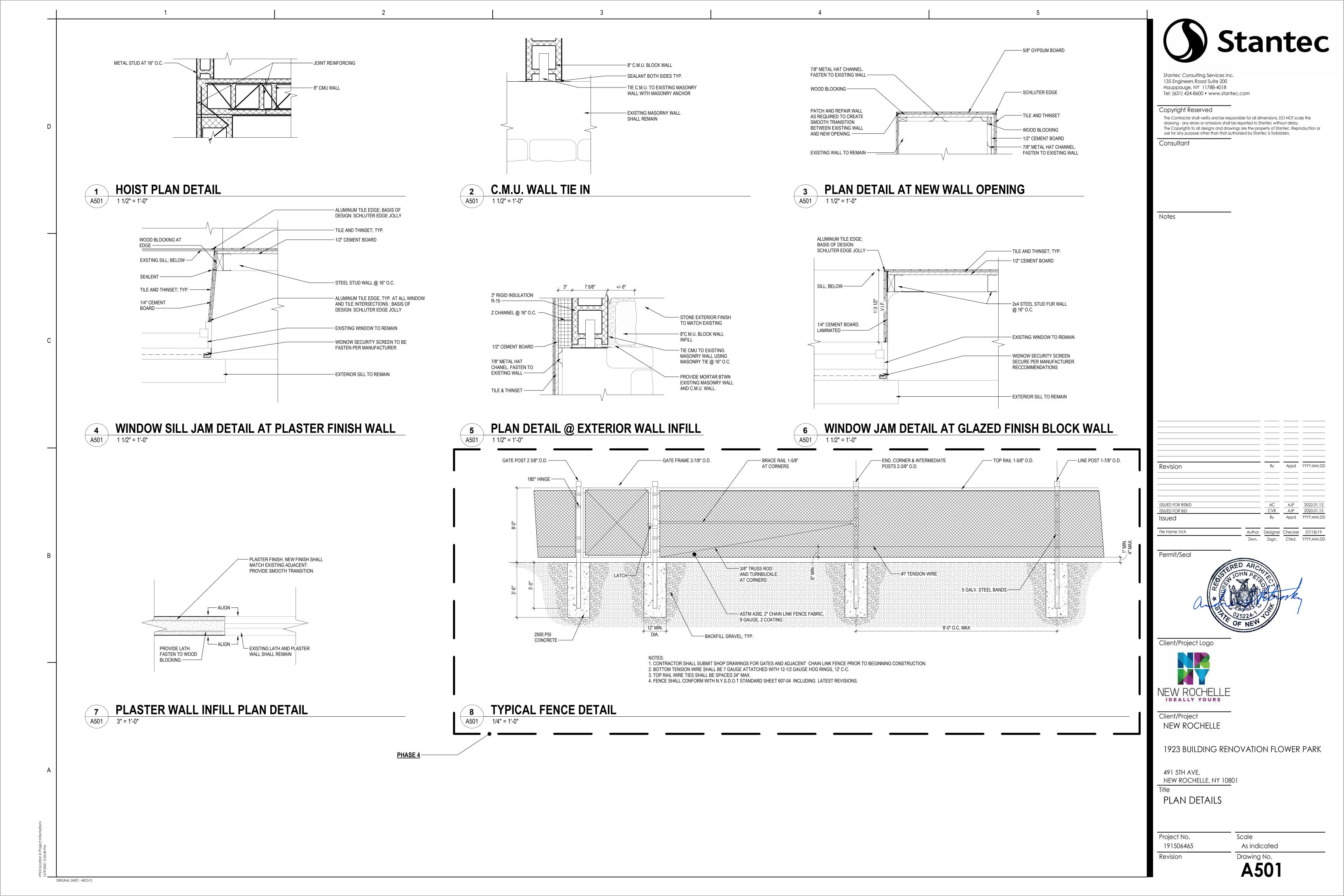
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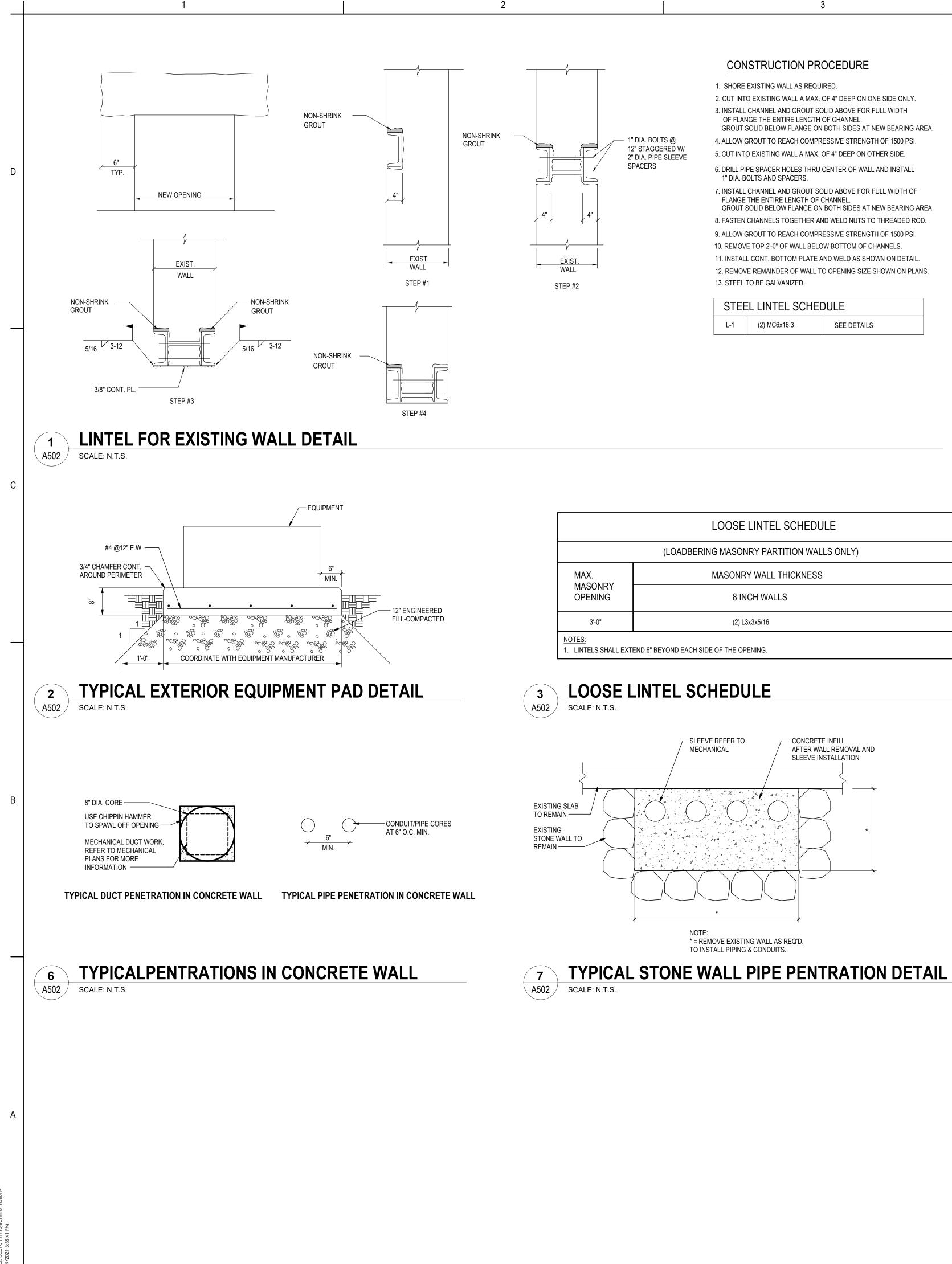
Project No.

Revision

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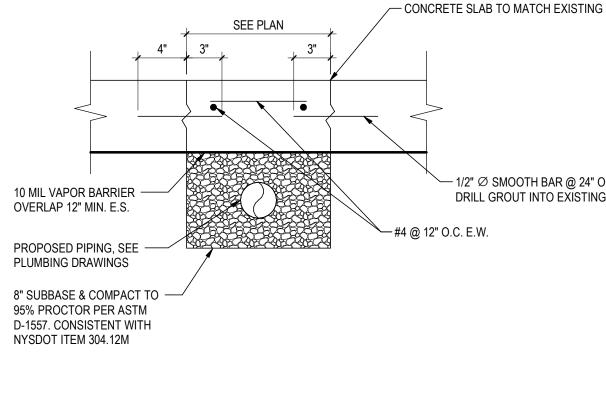




- 2. CUT INTO EXISTING WALL A MAX. OF 4" DEEP ON ONE SIDE ONLY.
- GROUT SOLID BELOW FLANGE ON BOTH SIDES AT NEW BEARING AREA.
- 5. CUT INTO EXISTING WALL A MAX. OF 4" DEEP ON OTHER SIDE.
- 7. INSTALL CHANNEL AND GROUT SOLID ABOVE FOR FULL WIDTH OF
- GROUT SOLID BELOW FLANGE ON BOTH SIDES AT NEW BEARING AREA. 8. FASTEN CHANNELS TOGETHER AND WELD NUTS TO THREADED ROD. 9. ALLOW GROUT TO REACH COMPRESSIVE STRENGTH OF 1500 PSI. 10. REMOVE TOP 2'-0" OF WALL BELOW BOTTOM OF CHANNELS.
- 12. REMOVE REMAINDER OF WALL TO OPENING SIZE SHOWN ON PLANS.

STEE	EL LINTEL SCHED	ULE	
L-1 (2) MC6x16.3		SEE DETAILS	

	LOOSE LINTEL SCHEDULE
	(LOADBERING MASONRY PARTITION WALLS ONLY)
	MASONRY WALL THICKNESS
	8 INCH WALLS
	(2) L3x3x5/16
(T	END 6" BEYOND EACH SIDE OF THE OPENING.





TYP. INTERIOR TRENCH DETAIL SCALE: N.T.S.

- 1/2" Ø SMOOTH BAR @ 24" O.C. DRILL GROUT INTO EXISTING SLAB

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1923 BUILDING RENOVATION FLOWER PARK

Scale

As indicated

A502

Drawing No.

Client/Project Logo

NEW ROCHELLE

NEW ROCHELLE

Client/Project

491 5TH AVE,

Title

Project No.

Revision

191506465

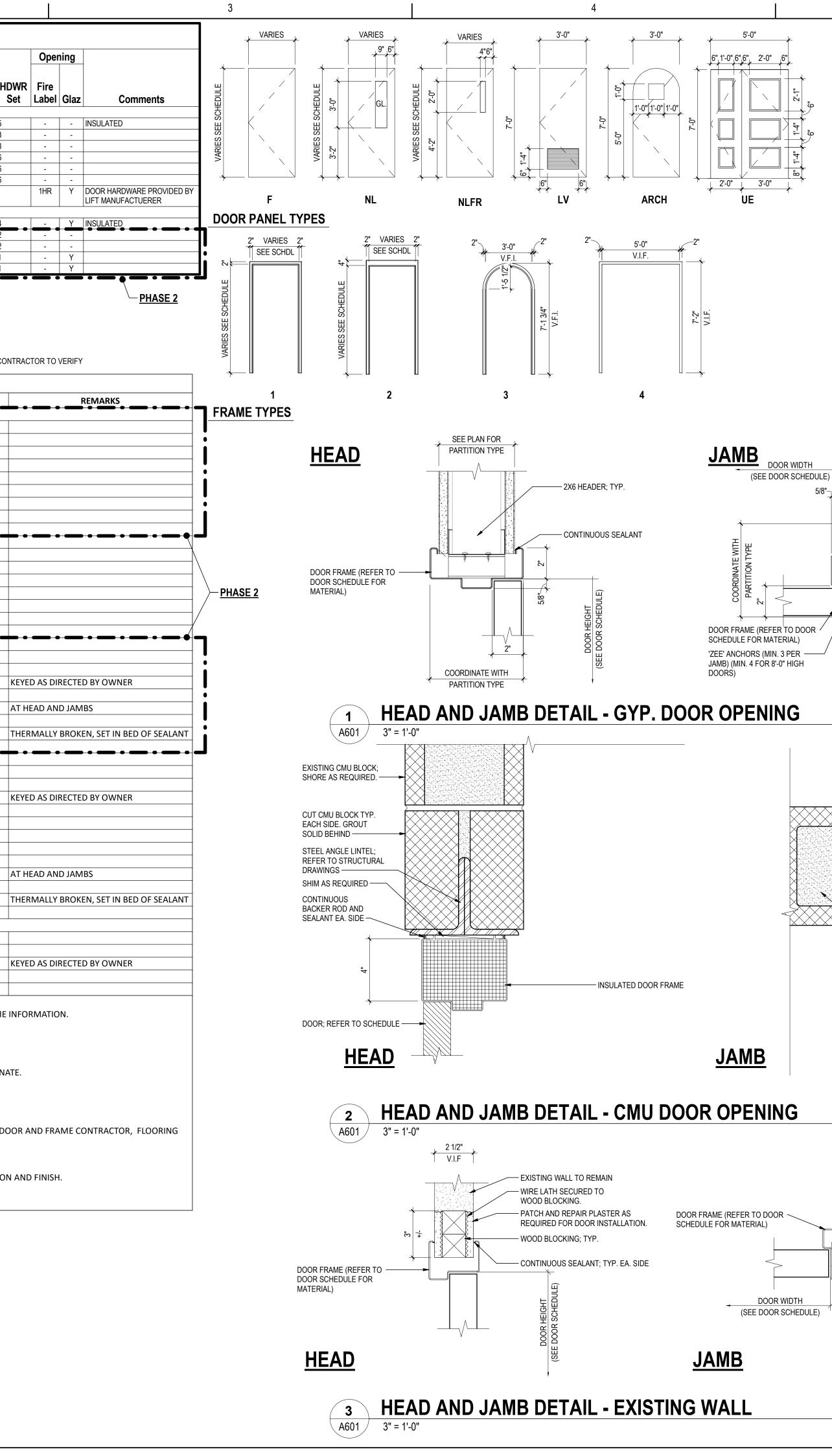
NEW ROCHELLE, NY 10801

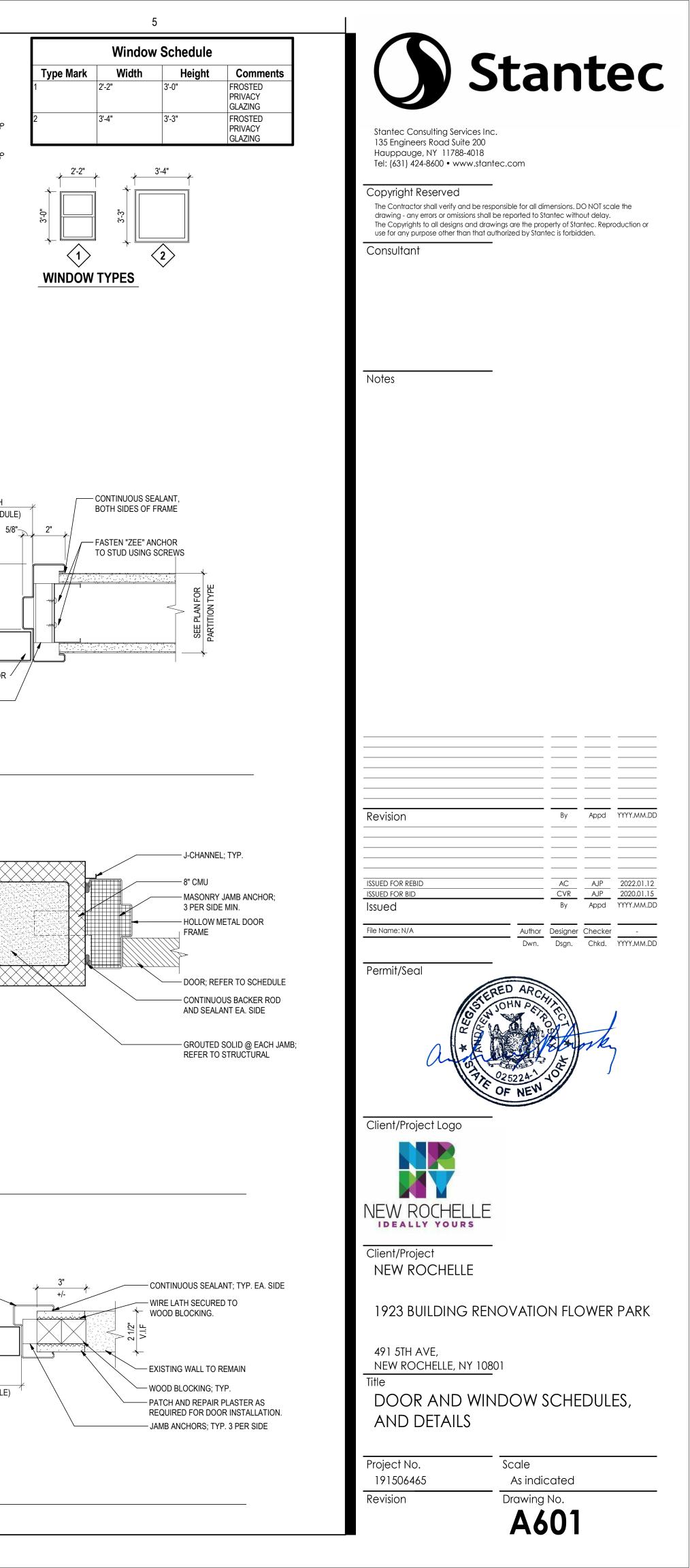
TYPICAL DETAILS

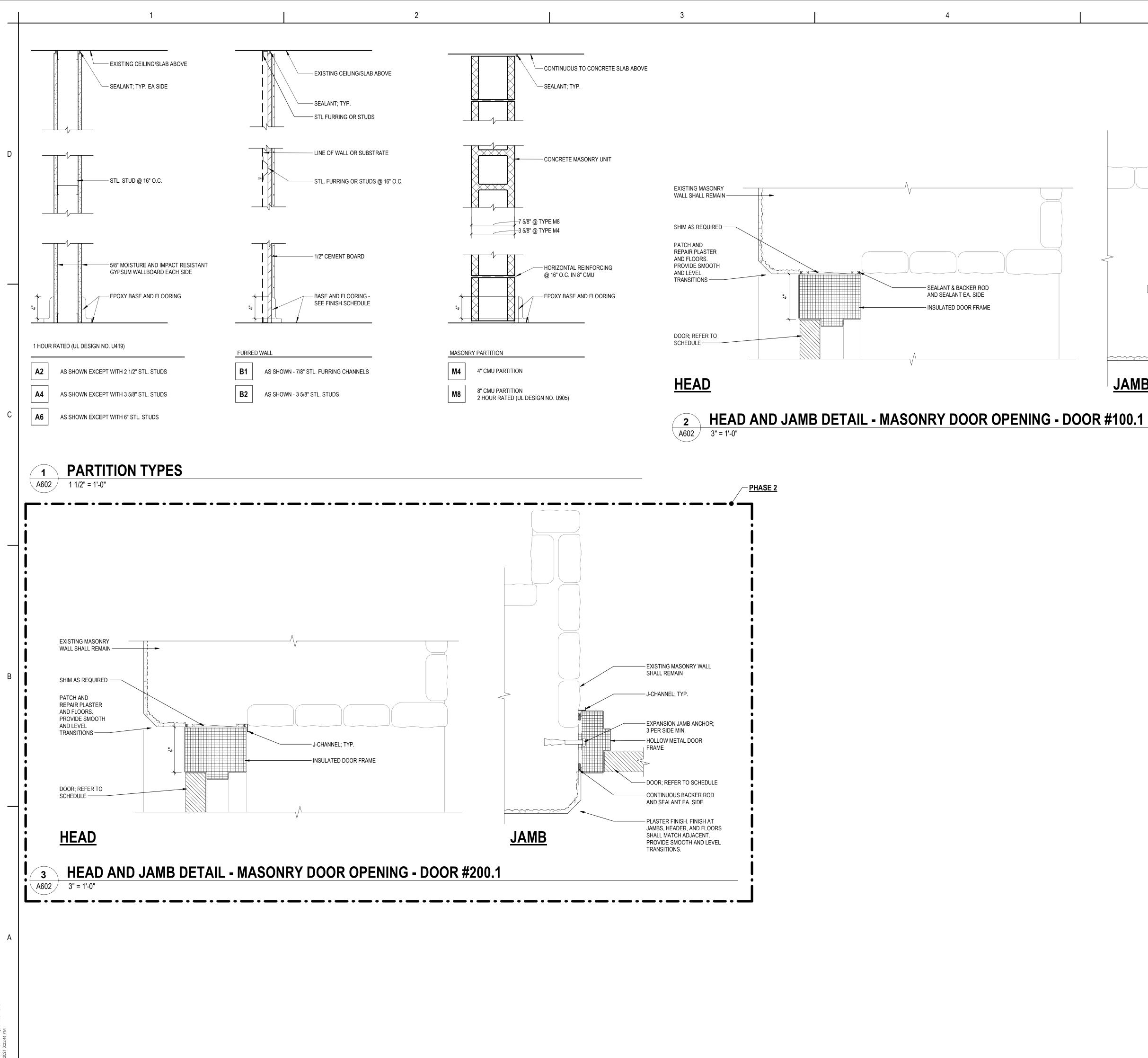
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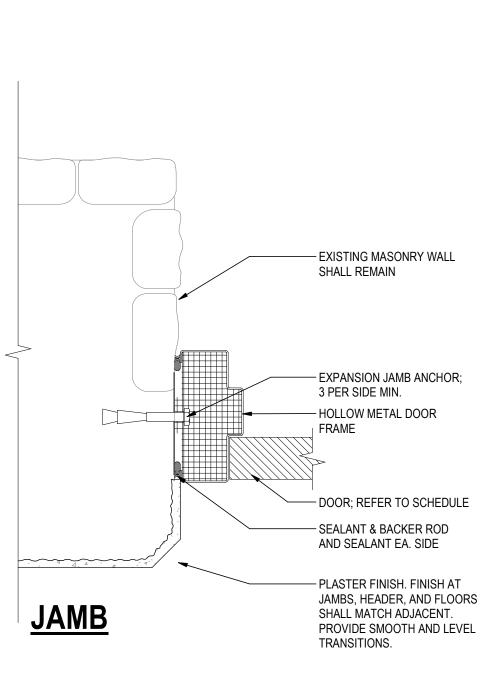
	Deer-								DOOR SCHEDULE							
Clear Dim.					Door Panel Widths No. of Panel 1 Panel 2 Thickness Panels Width Width							Type Mat'l Einich Ho				0:11
No. GROUN 100.1	D FLOOR	5'-0"	7'-0"	1 1 3/4"	Paneis 2	2'-0"	Width	Type	Material	Finish	Type	Mat'l	PNT	2/A602	2/A602	Sil
100.2 100.3	VESTIBULE	3'-0" 3'-0"	6'-8" 6'-8"	1 3/4" 1 3/4"	1	3'-0" 3'-0"	0' - 0"	F	HM	PNT PNT	1	HM	PNT PNT	1/A601 1/A601	1/A601 1/A601	-
100.4 100.5	STORAGE J.C.	2'-8"	6'-8" 6'-8"	1 3/4" 1 3/4"	1	2'-8" 2'-8"	0' - 0"	F	HM	PNT PNT	1	HM	PNT PNT	1/A601 1/A601	1/A601 1/A601	-
105.1 112.1	J.C. ADA LIFT	3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"	1	3'-0" 3'-0"	0' - 0" 0' - 0"	F	HM	PNT PNT	1 2	HM	PNT PNT	- 2/A601	- 2A601	-
FIRST F													 			
200.1	MEETING ROOM ADA RESTROOM	3'-0"	7'-0" 6'-8"	1 3/4" 1 3/4"	1	3'-0" 3'-0"	0' - 0"	ARCH F	HM	PNT PNT	3	HM	PNT PNT	3/A602 1/A601	1/A601	-
202.1 203.1 204.1	REFEREE LOCKER RM. OFFICE OFFICE	3'-0" 2'-8" 3'-0"	6'-8" 6'-8" 6'-8"	1 3/4" 1 3/4" 1 3/4"	1	3'-0" 2'-8" 3'-0"	0' - 0" 0' - 0" 0' - 0"	F NL NL	HM HM HM	HM PNT PNT	1	HM HM HM	PNT PNT PNT	1/A601 3/A601 3/A601	1/A601 3/A601 3/A601	
PNT - PA FAFI - FA DOOR N 1) ALL G 2) ALL E 3) UNDE	ACTORY APPLIED FINISH I <u>OTES:</u> SLAZING ON OR WITHIN 24" XTERIOR DOORS AND FRAI FRCUT INTERIOR DOORS AS	MES TO BE	THERMAL	BROKEN AND IN R FINISHED FLO	OR BY 1/4".	. ALL RATED	DOOORS) AS TO CLE	AR FINISHE	D FLOOF	R BY 1/4" UI	NLESS O	THERWISE	NO
	T THICKNESS OF ALL NEW	FLOOR COV	<u>/ERINGS P</u>		RCUTTING	OF DOORS		HAI	RDWARE	E SCHE	DULE					
1 - LA	Hardward CCHING HM SINGLE DO		AGE LOCK							• •		FIN		-		NTI
	HINGES MORTISE LATCHSE	•		HAGEI			BB1279		R W/ROSE)		SATIN S				3 EA. 1 EA.	
	DOME FLOOR STO			IVES			FS436/F				SATIN S	S	NAE 25		1 EA.	
2 - LA	SILENCERS	OR (PRIVA	ACY LOCK									-	ME COLO		3 EA.	
	HINGES MORTISE LATCHSE	 T		HAGEI SCHLA			BB1279 L9040(0		W/ROSE)		SATIN S				3 EA. 1 EA.	
	DOME FLOOR STO SILENCERS	Р		IVES			FS436/F	S438			SATIN S				1 EA. 3 EA.	
3 - NO	N-LATCHING HM SINGI	E DOOR (PUSH/PL	JLL TRIM)	R		BB1279			• • •	SATIN	•			3 EA.	
	PUSH PLATE	т.		IVES	•		8300				SATIN S	S			1 EA.	
	MORTISE LATCHSE SURFACE MOUNTE		8	IVES LCN			8305 4041				SATIN S				1 EA. 1 EA.	
	ARMOR PLATE DOME FLOOR STO	P		IVES IVES			- FS436/F	S438			- SATIN S	S			1 EA. 1 EA.	
4 - LAT	SILENCERS	OR FXTFR	IOR							• • • •	TO MA	TCH FRA	ME COLO	DR	3 EA.	_
	HINGES MORTISE EXIT DEV			HAGE	R DUPRIN		BB1191 9975-NI				SATIN S				3 EA. 1EA.	
	MORTISE CYLINDE	R			JOFRIN	I.C. CORE				SATIN SS SATIN SS				1 EA.		
	DOME FLOOR STO GASKETING	Р		IVES ZERO	INTERNA	TIONAL	FS436/F 813N	·S438			SATIN S		ME COLO		1 EA. 1 EA.	
	DOOR SWEEPS THRESHOLD				INTERNA INTERNA	-	8192 8726				ALUMII ALUMII				1 EA. 1 EA.	
5 - LA	SILENCERS	OOR EXTE	RIOR							•	TO MA	TCH FRA		OR	3 EA.	_
	HINGES MORTISE EXIT DEV			HAGE	R DUPRIN		BB1191 9975-NI				SATIN S				3 EA. 1EA.	
	MORTISE CYLINDE	R			JUPKIN		I.C. COR				SATIN S	S			1 EA.	
	CONCEALED FLUSH			IVES IVES			FB51P DP2				SATIN S				1 EA. 1 EA.	
	DOME FLOOR STO SURFACE MOUNTE		2	IVES LCN			FS436/F 4041	S438			SATIN S	-			1 EA. 1 EA.	
	ASTRAGALS GASKETING				INTERNAT		139 813N				ALUMII				1 EA. 1 EA.	
	DOOR SWEEPS			ZERO	INTERNA	TIONAL	8192				ALUMI	NUM			1 EA.	
	THRESHOLD SILENCERS				INTERNA	HONAL	8726				ALUMII TO MA		ME COLO		1 EA. 3 EA.	
6 - LAT	TCHING HM DOUBLE DO HINGES	DOR (STO	REROOM	LOCK) HAGEI	R		BB1279				SATIN S	S			3 EA.	
	MORTISE LATCHSE MORTISE CYLINDE			SCHLA	GE		L9080(0		W/ROSE)		SATIN S				1 EA. 1 EA.	
	DOME FLOOR STO			IVES			FS436/F				SATIN S	S			1 EA.	
1.CON 2.ALL 3.ALL 4.ALL 5.ALL 6.PRO 7. ALL 8.ALL 9.CON 10.IT I 11.CO CONTI 12.IF E 13.ALI	MORTISE CYLINDE	R P S: CUT SHEET CEYED AND PECIFIED (TO BE 1 3 (ERS, KNO (HM) TYP S TO BE 1 (HM) TYP S TO BE V ADDLES AT MINIMUI RESPONSIE IBLE TO CO TO BE RE DR EXISTIN	D GRAND OR APPR 3/4" THIC BS OR PU ICAL UNI VELDED T T DOOR S M OF 3 K BILITY TO OORDINA USED, CC	IVES IVES MASTER KEY OVED EQUAL. K AND STANE JLLS TO BE 3 ^{1,1} ESS OTHERW TYPE., TYPICAL CEHEDULE OF EYS PER LOCK MAKE SURE A ATE WITH ALL ONTRACTOR T VE DOOR STO	E FOR REV ED PER O NO SUBS DARD BAC -2" A.F.F. 'ISE NOTE L REQUIR R FINISH I (SET, INCL ALL THE H TRADES, 'O TAKE A DPS, SILEN	WNER RE STITUTION CK SET 2 3 TO CENTE ED OR UNI EMENTS F PLAN TO E UDING G HARDWAR HARDWAR	I.C. COR FS436/F QUIREME NS TO BE U /4" UNLES ERLINE, UN LESS AT FI FOR HOLL BE SIZED A RAND MA RE SPECIFI RE SPECIFI SARY ACT D.N.	E S438 AL PRIOR INTS. JSED, UI SS OTHE NLESS O RE RATE OW ME AS REQU STER. ED IS CO ICATION	TO ORDERI NLESS APPRI RWISE NOTI FHERWISE N D DOORS, A TAL FRAMES IRED FOR DO MPATIBLE V , INCLUDING PROPERLY I	OVED BY / ED. NOTED. COUSTIC/ OOR TO P VITH EACH G BUT NO REUSE, AN	SATIN S SATIN S SATIN S TO MA MIT SHOP ARCHITEC ALLY RATE ROPERLY O H OTHER I T LIMITED	S S TCH FRA DRAWI T. D, OR E D, OR E OPERAT N ADDIT TO MIL	KTERIOR E. FION TO F LWORK, REPLACE	DR LUDING DOORS. FRAME ⁻ ELECTRI	1 EA. 1 EA. 3 EA. CUTS AN G.C. TO TYPES. CIAN, SE	C

ORIGINAL SHEET - ARCH D













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	ELECTRICAL SYMBOL LIST
	(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)
SYMBOL	DESCRIPTION
Φ	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE WITH DUAL USB PORTS
Φ	20A, 125V SINGLE RECEPTACLE – FLUSH WALL MOUNTED
•	20A, 125V DECORA STYLE QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE GFCI TYPE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
WP	20A, 125V GFCI TYPE WEATHER RESISTANT DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
۹	SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MOUNTED
•	20A, 125V DECORA STYLE HALF SWITCHED DUPLEX RECEPTACLE – FLUSH WALL MOUNTED. BOTTOM HALF OF DUPLEX RECEPTACLE TO BE SWITCHED VIA WALL SWITCH
OV	FLUSH FLOOR MOUNTED COMBINATION VOICE/DATA & POWER OUTLET
J	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
Q	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH FLOOR MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	UNFUSED DISCONNECT SWITCH – 30A, 3P, U.O.N.
$\square \frac{100A}{60A}$	FUSED DISCONNECT SWITCH – 100 AMP SWITCH, 60 AMP FUSE, UNFUSED (EXCEPT WHERE FUSE SIZE IS INDICATED) 3–POLE (EXCEPT WHERE NOTED)
R	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COOR. LOCATION W/MECH. CONT.
<u>CB</u> <u>100A</u> 60A	CIRCUIT BREAKER 100A FRAME/60A TRIP, 3 POLE, U.O.N. ST - SHUNT TRIP
	VARIABLE FREQUENCY DRIVE (VFD), FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION WITH MECH. CONTRACTOR
IVSS	SURGE SUPPRESSER, LIEBERT ACCUVAR #ACV-120-Y-111-RKE FED WITH 30A/3P C/B MOUNT WITHIN 3ft OF TOTAL WIRE LENGTH FROM SOURCE
(FSD)	COMBINATION FIRE/SMOKE DAMPER - COORD. LOCATION WITH MECH. CONTRACTOR
<u>/M</u> /	MOTOR
	PULLBOX, SIZED PER NEC
Т	DRY TYPE 480–208V TRANSFORMER DELTA–WYE WITH GROUNDED SECONDARY SIDE, UON.
-	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	GROUND BAR
	2#12+1#12G-3/4"C FOR ONE CKT. HOMERUN, U.O.N.
	3#12+1#12G-3/4"C FOR TWO CKT. HOMERUN, U.O.N.
	4#12+1#12G-3/4"C FOR THREE CKT. HOMERUN, U.O.N.
	3#12+1#12G-3/4"C HOMERUN, U.O.N.
	CONCEALED CONDUIT
•	CONDUIT TURNING UP
	CAPPED CONDUIT
	FLEXIBLE EQUIPMENT CONNECTION
Ţ	GROUND CONNECTION
	CIRCUIT BREAKER – MOLDED CASE TYPE
→ ← →>≻	DRAW OUT TYPE CIRCUIT BREAKER
	FUSED SWITCH, TYPE 'FA' FUSE
	FUSE
	UNFUSED SWITCH – 100 AMP SWITCH
	UTITLITY METER WITH CT. COMPARTMENT
SUB	DIGITAL SUB-METER E-MON D-MON 2000 CLASS #208400D KIT, PROVIDE A 20A/3-POLE BREAKER IN LOCAL POWER PANEL
CHIME DB / DB T	DOOR BELL PUSH BUTTON / DOOR BELL CHIME AND ASSOCIATED TRANSFORMER
Щ	WALL MOUNTED TELEVISION OUTLET WITH 3/4" EMPTY CONDUIT & DRAG LINE TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING
V	VOICE & DATA OUTLET LOCATION WITH 1" EMPTY CONDUIT & DRAG LINE TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING
⊈ \$ _H	ADA "CALL FOR ASSISTANCE" PULL CORD SWITCH, HORN/STROBE & 24V TRANS., EST EDWARDS KIT MODEL #6538-G5
\$ _T	MANUAL STARTER — TOGGLE TYPE WITH THERMAL ELEMENT — 250V HP RATED, FURNISHED BY ELEC CONTRACTOR
$\otimes \overline{\otimes} \overline{\underline{\bullet}}$	CEILING MOUNTED EDGE-LIT LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP, DUAL-LITE LE SERIES
<u>∳</u> ⊉ ⊉	WALL MOUNTED EDGE-LIT LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP, DUAL-LITE LE SERIES
	WALL MOUNTED EMERGENCY LIGHTING UNIT, DUAL-LITE $\#$ LZ-25-03L
	RECESSED CEILING MOUNTED EMERGENCY LIGHTING UNIT, LIGHTALARMS PHANTOM SERIES #PHN100-2LD7-IDNA WITH REMOTE TEST SWITCH PSW-1

LIGHTING CONTROL SYMBOL LIST			
(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)			
SYMBOL	DESCRIPTION		
\$	SINGLE POLE LINE VOLTAGE SWITCH		
\$ ³	3-WAY LINE VOLTAGE SWITCH		
\$ K	KEY ACTIVATED LINE VOLTAGE SWITCH		
P	LUTRON NOVA T SERIES DIMMER SWITCH, U.O.N., EXACT DEVICE SPEC SHALL BE COORDINATED WITH LIGHT FIXTURE DIMMING CAPABILITIES		
PP	POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING LUTRON #RMJS-16R-DV-B		
PPEM	POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING LUTRON #RMJS-16R-DV-B-EM		
DM	0–10V DIMMING MODULE MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, LUTRON #RMJS-8T-DV-B		
DMEM	0-10V EMERGENCY DIMMING MODULE MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, LUTRON #RMJS-8T-DV-B-EM		
WS	WIRELESS OCCUPANCY SENSOR, CEILING MOUNTED, LUTRON #LRF2-OCR2B-P-WH		
WH	VIVE WIRELESS HUB, FLUSH MOUNTED, LUTRON #HJS-0-FM + #PS-J-20W-UNV POWER SUPPLY MOUNTED IN JUNCTION BOX		
<u>S</u> H	DUAL TECHNOLOGY VACANCY SENSOR, WALL MTD. LUTRON #MS-B102		
DS	WIRELESS DAYLIGHT SENSOR, CEILING MOUNTED, LUTRON #LRF2-DCRB-WH		
N S S	WALL MTD WIRELESS OCCUPANCY SENSOR, LUTRON #LRF2-O-W-LB-P-WH		
\$ ^{WS}	WIRELESS 2-BUTTON SWITCH, LUTRON $\#PJ2-2B-GWH-L01 + \#CW-1-WH$		
\$ DS	WIRELESS 3-BUTTON RAISE/LOWER SWITCH, LUTRON #PJ2-3BRL-GWH-L01 + #CW-1-WH		
\$ SS	WIRELESS 4-BUTTON SCENE SWITCH, LUTRON #PJ2-4B-GWH-L31 + #CW-1-WH		
\$ ^{OR}	REMOTE TIMED OVERRIDE SWITCH TORK #SSA200R-24		
ТС	DIGITAL TIME CLOCK TORK DLC SERIES #DLC400BP		
6	SINGLE FIXTURE GENERATOR TRANSFER DEVICE, PHILLIPS BODINE #GTD		
BLCD	SINGLE CIRCUIT GENERATOR TRANSFER DEVICE WITH OVERRIDE, PHILLIPS BODINE #BLCD-20B		
GTD	SINGLE CIRCUIT GENERATOR TRANSFER DEVICE WITH DIMMING CONTROL AND OVERRIDE, PHILLIPS BODINE #GTD-20A		

D

ELECTRICAL ABBREVIATIONS				
(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)				
Α	AMPERE	КСМ	THOUSAND CIRCULAR MILS	
AC	ABOVE COUNTER	КV	KILOVOLT	
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE	
AIC	AMP INTERRUPTING CAPACITY	KW	KILOWATT	
ATS	AUTOMATIC TRANSFER SWITCH	KWH	KILOWATT HOUR	
AUTO	AUTOMATIC	LTG	LIGHTING	
AWG	AMERICAN WIRE GAUGE	MAX	MAXIMUM	
BLDG	BUILDING	МСВ	MAIN CIRCUIT BREAKER	
С	CONDUIT	мсс	MOTOR CONTROL CENTER	
СВ	CIRCUIT BREAKER	MIN	MINIMUM	
CCTV	CLOSED CIRCUIT TELEVISION	MTD	MOUNTED	
СКТ	CIRCUIT	N	NEUTRAL	
CO	CARBON MONOXIDE	NIC	NOT IN CONTRACT	
СОММ	COMMUNICATION	NTS	NOT TO SCALE	
СТ	CURRENT TRANSFORMER	OC	ON CENTER	
CU	COPPER	Р	POLE	
DEG	DEGREE	ø or PH	PHASE	
DGP	DATA GATHERING PANEL	PNL	PANEL	
DISC	DISCONNECT	PWR	POWER	
DN	DOWN	R	RELOCATED	
DWG	DRAWING	RECEPT	RECEPTACLE	
E/EX	EXISITNG TO REMAIN	TEL	TELEPHONE	
EC	ELECTRICAL CONTRACTOR	TOS	TOP OF SHAFT	
EM	EMERGENCY	τv	TELEVISION	
ER	EXISTING TO BE REMOVED	TYP	TYPICAL	
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED	
FACP	FIRE ALARM CONTROL PANEL	V	VOLT OR VOLTAGE	
FL	FLOOR	VA	VOLT AMPERE	
FT	FEET OR FOOT	VIF	VERIFY IN FIELD	
GRD	GROUND	W	WATT	
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF	
HID	HIGH INTENSITY DISCHARGE	WT	WATERTIGHT	
HP	HORSE POWER	XP	EXPLOSION PROOF	
HZ	HERTZ			
JB	JUNCTION BOX			

NEW YORK STATE CODES & STANDARDS

•	2015 INTERNATIONAL BUILDING CODE
•	2015 INTERNATIONAL FIRE CODE
•	2015 INTERNATIONAL PLUMBING CODE
•	2015 INTERNATIONAL MECHANICAL CODE
•	2015 INTERNATIONAL FUEL GAS CODE
•	2017 NYS UNIFORM CODE SUPPLEMENT
•	LOCAL FIRE DEPARTMENT/FIRE MARSHAL
	ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTI

ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION

- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- 2013 ASHRAE 90.1 • 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CODE (REVISED AUGUST 2016)

LOCAL CODES

NEW YORK STATE ENERGY CODES

• NEW ROCHELLE MUNICIPAL CODE

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CONTROL THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFER STANDARDS.	
• 2013 NPFA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS	

•	2013 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	
•	2013 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	
•	2014 NFPA 70 - NATIONAL ELECTRICAL CODE	
•	2013 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE	

PROFESSIONAL STATEMENT

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE.

SHEET NUMBER
E-001
E-002
ED-101
E-101
E-201
E-301
E-401
E-402
E-501
E-502

ELECTRICAL POWER NOTES

- NOTED.
- E.

- ١.

ELECTRICAL LIGHTING NOTES

- INSTANCES.

- ALL PHASES.
- COMMON FACEPLATE.
- A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED.
- DEDICATED NEUTRAL CONDUCTOR.
- J. MINIMUM OF 90 MINUTES.

E	ELECTRICAL DRAWING LIST
	SHEET TITLE
	ELECTRICAL COVER PAGE
	ELECTRICAL NOTES
	ELECTRICAL GROUND & FIRST FLOOR DEMOLITION PLANS
	ELECTRICAL GROUND & FIRST FLOOR POWER PLANS
	ELECTRICAL GROUND & FIRST FLOOR LIGHTING PLANS
	ELECTRICAL PANEL SCHEDULE
	ELECTRICAL DETAILS
	ELECTRICAL DETAILS
	ELECTRICAL SPECIFICATIONS
	ELECTRICAL SPECIFICATIONS

A. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT IN FIELD FOR EXACT LOCATION, QUANTITY AND ELEVATION OF RECEPTACLE OUTLETS PRIOR TO INSTALLATION.

B. RECEPTACLES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH DEVICE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. ALL RECEPTACLES SPECIFIED FOR PERSONAL COMPUTERS, LASER PRINTERS AND SIMILAR TYPES OF EQUIPMENT SHALL BE PROVIDED WITH A SEPARATE NEUTRAL AND GROUND CONDUCTOR. THIS IS TO COMPENSATE FOR HARMONIC CURRENTS. SHARED NEUTRAL CONDUCTORS FOR THESE HOMERUNS ARE NOT PERMITTED, UNLESS OTHERWISE

D. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.

CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES. VERIFY SPARE CIRCUIT BREAKERS IN THE FIELD.

MECHANICAL EQUIPMENT IS LOCATED ABOVE THE HUNG CEILING UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE DETERMINED FROM MECHANICAL DRAWINGS.

G. COORDINATE LOCATION FOR ALL MOTORIZED DAMPERS, DUCT MOUNTED SMOKE DETECTORS & MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR.

COORDINATE THE HARDWARE REQUIREMENTS FOR THE DOORS WITH THE ARCHITECT & SECURITY CONSULTANT PRIOR TO INSTALLATION (I.E. ELECTRIC HINGES, CARD READERS, ELECTRIC STRIKES, MAGNETIC SWITCHES, POWER SUPPLIES, ETC.)

ALL BRANCH CIRCUIT HOME RUNS SHALL BE 2#12 & 1#12 GRD IN 3/4" CONDUIT, U.O.N. TO PANEL & CIRCUIT INDICATED. MAXIMUM OF THREE HOMERUNS PER CONDUIT.

J. ALL POWER AND LIGHTING CIRCUITS, AND LOW VOLTAGE CABLING (VOICE/DATA, FIRE ALARM, LIGHTING CONTROLS, AUDIO/VISUAL, HVAC CONTROLS, ETC.) ROUTED THROUGH EXPOSED CEILINGS SHALL BE IN EMT CONDUIT. COORDINATE INSTALLATION WITH OTHER TRADES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPOSED CEILINGS.

A. FOR EXACT LOCATION, QUANTITY AND ELEVATION OF LGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ARCHITECT IN THE FIELD. B. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE. CIRCUITRY MAY BE SHOWN IN CERTAIN

C. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.

D. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAW-INGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.

E. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE THE CIRCUITS EVENLY ON

F. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A

G. ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH

H. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH

ALL NIGHT LIGHTS AND EMERGENCY LIGHTS (NL/EM) SHALL BE UNSWITCHED AND CIRCUITED DIRECTLY TO ASSOCIATED ELECTRICAL EMERGENCY PANEL.

ALL LIGHT FIXTURES DESIGNATED WITH "EM" OR ARE INDICATED TO BE PROVIDED WITH AN EMERGENCY BATTERY BACK UP BALLAST SHALL HAVE CAPABILITY OF ILLUMINATING ALL LAMPS WITHIN FIXTURE FOR A



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Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE,

NEW ROCHELLE, NY 10801 Title

ELECTRICAL COVER PAGE

Project No. 191506465

Scale NONE Drawing No.

E-001

Revision

1 05	ELECTRICAL DEMOLITION NOTES	1	ALL \
1. GE 1.1.	SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR NUMBER OF LIGHTING FIXTURES AND DEVICES TO BE REMOVED AND OR	'.	ALL N DEPA STATE
1.2.	RELOCATED. SEE HVAC DRAWINGS FOR HVAC EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.		WORK TO IN LAWS AND
1.3.	SEE PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT TO BE REMOVED.		NO E
1.4.	FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVED CONDUIT/WIRING BACK TO PANEL.	2.	PRIOF FIELD
1.5.	REMOVE ALL DUPLEX RECEPTACLES AND ASSOCIATED CIRCUITING. WHERE OUTLETS ARE REMOVED AND THROUGH CIRCUITING SERVE OTHER OUTLETS BEYOND THE DEMOLITION AREA, RESTORE OR MAINTAIN THROUGH CIRCUITING.		HERE SUBM
1.6.	CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO BUNDLE, NEATEN, AND CLEAN UP EXISTING LOOSE CABLING INCLUDING BUT NOT LIMITED TO LOW VOLTAGE CABLING, FIRE ALARM CABLING, MC CABLING, ETC. WHERE CEILINGS ARE EXPOSED, CONTRACTOR SHALL REINSTALL ALL EXISTING CABLING IN EMT CONDUIT AS CLOSE TO UNDERSIDE OF STRUCTURE AS POSSIBLE.	3.	QUAL BEEN DRAW LOCA
1.7. 2. FL(REMOVE ALL CLIPS AND HANGERS FROM CEILING SLAB AND REPAIR IF REQUIRED.		FINAL WITH THE
2.1.	ALL FLOOR OUTLETS SERVICE FITTINGS SHALL BE REMOVED WITH WIRE, REMOVED BACK TO THE ELECTRIC PANEL FROM WHICH THEY ARE SERVED.	4.	PRIOF PROJI TELEC
2.2.	REMOVE FLOOR AFTERSET INSERT. PROVIDE SHEETMETAL ''PENNY'' AND PATCH BY FILLING WITH CONCRETE. FLUSH WITH FLOOR SLAB.		THE THE
3. FL(OOR OUTLETS - LOW TENSION	5.	
	ALL FLOOR OUTLET SERVICE FITTINGS SHALL BE REMOVED WITH DATA/TELEPHONE CABLE. REMOVED BACK TO TELEPHONE CLOSET TERMINAL STRIPS.		PERFO ON T ADDIT
3.2.	REMOVE FLOOR AFTERSET INSERT, PROVIDE SHEETMETAL ''PENNY'' AND FILL WITH CONCRETE FLUSH WITH FLOOR SLAB.	6.	
	THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION. REMOVE ALL WIRING BACK TO EXISTING PANELS.		FINAL ELECI CONT EQUIF
	ISTING ELECTRICAL PANELS	7.	CONT
5.1. 6. FX	CONTRACTOR SHALL USE CARE IN DISCONNECTING WIRING FROM PANELS AND CIRCUIT BREAKERS. CAREFULLY STORE ALL PANEL COVERS AS CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE USABLE PANEL INSTALLATION. ISTING HEADERDUCT		NECE: WORK
6.1.			
6.2.	CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHHEADER ACCESS COVER PLATES, GASKETS AND SCREW WHICH WILL HAVE TO BE REPLACED IF LOST AS PART OF THIS WORK.		
6.3.	ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING TELEPHONE AND ELECTRICAL CABLING FROM FLOOR CELLS AND HEADERDUCT BACK TO THEIR RESPECTIVE TELEPHONE AND ELECTRIC CLOSETS. REPLACE AND SECURE ALL COVER PLATES.		
	ISTING LIGHTING FIXTURES		
7.1.	REMOVE ALL LIGHTING FIXTURES AND DETERMINED IF BALLAST CONTAINS PCB AS DIRECTED TURN OVER TO OWNER/TENANT ALL FIXTURES OR DISPOSE OF THEM IN AN APPROVED MANNER. IF FIXTURES CONTAIN BALLASTS WITH PCB REMOVE BALLASTS FROM FIXTURES AND DISPOSE OF IN AN APPROVED MANNER.		
7.2.	CONTRACTOR SHALL PULL OUT ALL WIRING AND REMOVE ALL CONDUIT. FOR OVERHEAD LIGHTING CIRCUITS RUN IN CELLULAR DECK REMOVE WIRING AND PROPERLY BLANK OFF OUTLET BOXES.		
7.3.	REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.	8.	THIS SUBM BUILD
7.4.	DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL FOR EQUIPMENT TO BE REMOVED.		DRILL
8. TE	MPORARY LIGHTING AND POWER	9.	
8.1. 8.2.	FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS FOR THE PROJECT. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS AT ALL TIMES.		OR A AS A
8.3.	FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.	10	. SUBM SUBM
8.4.	REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES.		COPIE IS RE
8.5.	TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE NORMAL WORK DAY.		OR A
8.6.	TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.	11	. SUBM TO IN
		12	. CONT AS-B PROJI
		13	BY TH . NO S
			WRITT SPEC
			OR D THIS
		14	CHAN . THIS
			ACCE JUNC

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	T
ELECTRICAL GENERAL NOTES	ELECTRICAL GENERA
WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, BUILDING PARTMENT, BUILDING MANAGEMENT, ALL AUTHORITIES HAVING JURISDICTION, AND APPLICABLE NATIONAL, ATE, AND LOCAL CODES. LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS RK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS INFORM THE ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE VS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION OF LAWS D REGULATIONS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT	INSTALLATION OF ALL ACCESS DOORS IN FINISHED 15. REMOVAL, TEMPORARY CONNECTIONS, AND RELOCAT FOR THE INSTALLATION OF THE NEW SYSTEMS. AI DETAILED ON THE DRAWINGS. THE CONTRACTOR S CHANGES REQUIRED BASED ON EXISTING CONDITION
EXPENSE TO THE OWNER. OR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL LD CONDITIONS AS THEY RELATED TO THE WORK AS INDICATED ON THE DRAWINGS AND DESCRIBED REIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO	16. PLAN INSTALLATION OF NEW WORK AND CONNECTION INTERFERENCE WITH REGULAR OPERATION OF EXIST OTHER AREAS SHALL BE ORGANIZED WITH BUILDING CIRCUITRY, ETC., AS REQUIRED TO MINIMIZE DOWN
BMISSION OF BID, AND, IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN ALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS EN PERFORMED AS DESCRIBED ABOVE. AWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE	17. DISCONNECTS SHALL BE 'QUICK-BREAK' HEAVY DU UN-FUSED AS INDICATED ON THE DRAWINGS. FUS WITH AN INTERRUPTING CAPACITY OF 200,000 RMS AS SHOWN ON THE DRAWINGS.
CATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE AL LOCATIONS OF SWITCHES, LIGHT FIXTURES, RECEPTACLES, ETC. WORK SHALL BE COORDINATED 'H OTHER TRADES TO AVOID CONFLICTS. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON E DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.	18. CIRCUIT BREAKERS SHALL BE 'THERMAL MAGNETIC' NON-WELDING CONTACTS COMPENSATED FOR AMBI SHORT CIRCUIT RATING OF 10,000 AMPERES SYMM AMPERES SYMMETRICAL FOR 277/480V PANELS OF
OR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE DJECT INCLUDING GENERAL CONSTRUCTIONS, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL,	19. CONDUIT SHALL BE RIGID THREADED REGARDLESS
ECOM/AV/SECURITY, PLUMBING, AND FIRE PROTECTION AND SHALL INCLUDE ANY WORK REQUIRED IN E BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF E WORK. Y EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER	20. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN, 600 VOLT RATED INSULATION, UNLESS OTHERWISE SMALLER SHALL BE SOLID CONDUCTORS AND 8 AV
RFORMANCE OF THE ELECTRICAL WORK, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL WITHOUT	21. BRANCH CIRCUIT WIRE SIZE: THE MINIMUM WIRE EXCEPT 120V CIRCUITS OVER 80 FEET IN LENGTH
DITIONAL COST. . MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF	22. PULL BOXES, JUNCTION BOXES, AND OUTLET BOXE INDUSTRY STANDARD SHALL STEEL.
AL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE ECTRICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND NTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURER'S SUPPLYING THE JIPMENT FOR THE PROPER STARTUP, OPERATION, AND SERVICING OF EQUIPMENT.	23. PROVIDE PULL BOXES AND JUNCTION BOXES IN LO CABLES ARE NOT DAMAGED WHEN THEY ARE PULL OF BENDS PERMITTED IN RACEWAY BETWEEN CABL JOINTS AND SPLICES, AND THE APPLICATION OF C
NTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND CONTRACTOR'S SERVICES CESSARY FOR THE COMPLETE AND SAFE INSTALLATION OF ALL ELECTRICAL WORK. THE SCOPE OF	24. PULL BOXES AND JUNCTION BOXES SHALL BE SIZ SPECIFIED FOR THE WIRES AND CABLE ARE MAINTA
 RK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: ELECTRICAL REQUIREMENTS SHALL BE IN CONFORMANCE WITH ENGINEERING BID DOCUMENTS AS WELL AS DOCUMENTS (SPECIFICATIONS & DRAWINGS) PREPARED BY LOCAL UTILITY COMPANY AND REFERENCED DRAWINGS IN THE UTILITY COMPANY DOCUMENTS NOT INCLUDED SHALL BE PART OF THIS CONTRACT. 	25. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, INSTALLED SO AS TO ALLOW ACCESS TO THE BOX OWNER/ENGINEER, PROVIDE ACCESS DOOR OR COV IS NOT POSSIBLE.
 CONTRACTOR SHALL COORDINATE AND ARRANGE TO RECEIVE AND/OR PICK UP SPECIFIC EQUIPMENT OUTLINED PRE-PURCHASE ITEMS. REMOVAL AND RELOCATION OF EQUIPMENT AS REQUIRED WHEN INTERFERING WITH NEW WORK. INSTALLATION OF NEW RACEWAY AND CONDUCTORS. CUTTING, CHANNELING, CHASING, AND ROUGH PATCHING REQUIRED TO ACCOMMODATE THE 	26. OPENINGS AROUND ELECTRICAL PENETRATION THRC FLOOR OR CEILING SHALL BE FIRE STOPPED USING FOR THREE (3) HOURS.
 ELECTRICAL INSTALLATION. ADDITION OR MODIFICATION OF EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT. INSTALLATION OF CONDUIT, JUNCTION BOXES, PULL BOXES, ETC., REQUIRED FOR THE AFOREMENTIONED EQUIPMENT. MAINTENANCE AND PROPER OPERATION OF EXISTING BASE BUILDING SYSTEMS WITHIN THE CONTRACT AREA IN ACCORDANCE WITH THE REQUIREMENTS OF BUILDING MANAGEMENT. TEMPORARY LIGHT AND POWER DURING CONSTRUCTION. GROUNDING OF ALL EQUIPMENT AS REQUIRED BY CODE AND SPECIFIED. 	27. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO C RECEPTACLES AND TELEPHONES GENERALLY OVER WORK BENCHES WALL SWITCHES WALL FIXTURES MOTOR CONTROLLERS FIRE ALARM PULL STATIONS
S CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID BMISSION TO DETERMINE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY ILDING MANAGEMENT. FOR THE PURPOSE OF BID, ASSUME ANY NOISY WORK (E.G., CHOPPING, CORE ILLING, ETC.) AND BASE BUILDING SYSTEM INTERRUPTIONS ARE TO BE PERFORMED OUTSIDE NORMAL	 FIRE ALARM HORN/SPEAKER/STROBES GREATER) EXCEPTIONS: AT JUNCTION BOXES OF DIFFERENT WALL SURFACE, IN VIOLATION OF CODE REQUIREME
SINESS HOURS. IE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201 LATEST EDITION, AS REQUIRED BY THE ARCHITECTS DOCUMENTS AND/OR THE STRUCTURAL ENGINEERS DOCUMENTS, APPLICABLE, ARE PART OF THIS DOCUMENT.	28. PROVIDE WEIGHTS, LOCATIONS, AND DIMENSIONS O FLOOR OR HUNG FROM BUILDING STRUCTURE TO PRIOR TO INSTALLATION.
BMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN ESTABLISHED. BMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTIONS WIRING DIAGRAMS. PROVIDE DIGITAL PIES OF ALL DRAWINGS. SPECIFIC JOB REQUIREMENTS MAY BE MORE STRINGENT AND CONTRACTOR RESPONSIBLE TO OBTAIN REQUIREMENTS FROM CONSTRUCTION MANAGER, GENERATOR CONTRACTOR,	29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE TELECOM/AV/SECURITY, AND OTHER TRADES FOR I DEVICES, BACK BOXES, AND CONDUIT REQUIREMEN ARE APPROXIMATE.
ARCHITECT. BMIT (4) LOOSE—LEAF BOUND OPERATING AND MAINTENANCE MANUALS WITH INDEX AND INDEX TABS INCLUDE ALL SHOP DRAWINGS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL SYSTEMS.	30. PROVIDE PRICING FOR EXTENDED WARRANTIES (2- ELECTRICAL DRAWINGS AND SPECIFICATIONS. PROV WHERE POSSIBLE.
NTRACTOR SHALL REVISE SHIP DRAWINGS TO CONFORM TO RECORD DRAWINGS AND SUBMIT AN -BUILT CONDITION (DEVICES, EQUIPMENT, CIRCUITRY, ETC.) DRAWINGS UPON COMPLETION OF THE DJECT. FINAL SUBMISSION OF REPRODUCIBLE AS-BUILT DRAWINGS ARE TO BE SIGNED AND CERTIFIED THE INSTALLING CONTRACTOR THAT THIS IS AS-BUILT CONDITION OF THE WORK.	 31. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH 32. COORDINATION WITH BUILDING MANAGEMENT THIS CONTRACTOR IS TO OBTAIN A COPY OF THE SUBMISSION TO DETERMINE THE REQUIREMENTS
SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL BE PERMITTED WITHOUT A FORMAL ITTEN SUBMITTAL TO THE ENGINEER WHICH INCLUDES ALL DIMENSION, PERFORMANCE, AND MATERIAL ECIFICATIONS. ANY CHANGES IN LAYOUT, ELECTRICAL CHARACTERISTICS, STRUCTURAL REQUIREMENTS, DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER AS PART OF S PROPOSAL. THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR THE SUBSTITUTION AND ALL ANGES RESULTING FROM SUBSTITUTION.	 BUILDING. THIS CONTRACTOR IS RESPONSIBLE FOR ADHER DISCREPANCIES BETWEEN THE CONTRACT DOCUL SUBMITTED IN WRITING TO THE ARCHITECT/ENGL COORDINATE WITH BUILDING OWNER FOR ANY S AS REQUIRED BY BUILDING RULES AND REGULA DAYS NOTICE PRIOR TO ANY WORK BEING PERF TO PERFORM WORK ON PREMIUM TIME, IF SO
S CONTRACTOR SHALL SUBMIT FOR APPROVAL, A PLAN INDICATING THE SIZE AND LOCATION OF ALL CESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, NCTION BOXES, PULL BOXES, ETC. THIS CONTRACTOR SHALL ARRANGE FOR FURNISHING AND	EXISTING TENANTS ON OTHER FLOORS. • ALL NEW ELECTRICAL DEVICES SHALL MATCH TH

ERAL NOTES (CONTINUED)

ED CONSTRUCTION AND INCLUDE COSTS IN THE BID.

CATION OF CERTAIN EXISTING WORK WILL BE NECESSARY ALL EXISTING CONDITIONS ARE NOT COMPLETELY R SHALL SURVEY THE SITE AND MAKE ALL NECESSARY TIONS FOR PROPER INSTALLATION OF NEW WORK.

CTIONS TO EXISTING WORK TO INSURE MINIMUM XISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING DING MANAGEMENT. PROVIDE TEMPORARY FEEDERS, WNTIME.

DUTY TYPE IN NEMA 1 ENCLOSURE FUSED OR FUSES FOR SWITCHES SHALL BE CURRENT LIMITING TYPE RMS AMPERES AND OF THE CONTINUOUS CURRENT RATING

TIC' TYPE, QUICK-MAKE, QUICK-BREAK WITH MBIENT TEMPERATURES AND SHALL HAVE A MINIMUM YMMETRICAL FOR 120/208V PANELS AND 14,000 S OR HIGHER WHERE NOTES.

SS OF SIZE.

HN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE SE NOTED. UNLESS SPECIFIED ALL WIRE #10 AWG AND AWG AND LARGER SHALL BE STRANDED.

RE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG TH SHALL BE 10 AWG.

DXES SHALL BE MANUFACTURED FROM GALVANIZED

I LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT JLLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER ABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE F CABLE SUPPORTS.

SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA NTAINED.

ES, PULL BOXES, AND OUTLET BOXES SHALL BE BOX. IF NECESSARY AND APPROVED BY COVER PLATES IN AREAS WHERE UNOBSTRUCTED ACCESS

HROUGH FIRE RESISTANCE RATED WALL, PARTITIONS, SING APPROVED METHODS. SEALANT SHALL BE RATED

CENTERLINE OF OUTLET:

- 1'6" 3'6"
- 4'0"
- **4'** 0"
- 6'0"
- 5'0" 4'0"

6'8" AFF OR 6" BELOW CEILING (WHICHEVER IS

NT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN EMENTS, AS NOTED OR DIRECTED.

OF EQUIPMENT IN EXCESS OF 200 LBS. SUPPORTED ON O BASE BUILDING STRUCTURAL ENGINEER FOR APPROVAL

TE HIS WORK WITH HVAC, PLUBMING, FIRE PROTECTION, OR EXACT LOCATION OF ALL MOTOR AND CONTROL MENTS. LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS

2–5 YEARS) FOR THE SYSTEMS NOTED ON THE ROVIDE PRICING FOR WARRANTIES BEYOND 5–YEARS

TH WEATHERPROOF "WHILE IN USE" COVERS.

F THE BUILDING RULES AND REGULATIONS PRIOR TO BID NTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY THE

HERING TO THE BUILDING OWNER'S RULES AND REGULATIONS. ANY OCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE ENGINEER FOR REVIEW WITH BID SUBMISSION. IY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE GULATIONS, OR CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) PERFORMED, WHICHEVER IS THE MORE STRINGENT. CONTRACTOR IS

SO DIRECTED BY BUILDING OWNER, SO AS NOT TO DISTURB



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Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE,

NEW ROCHELLE, NY 10801 Title

ELECTRICAL NOTES

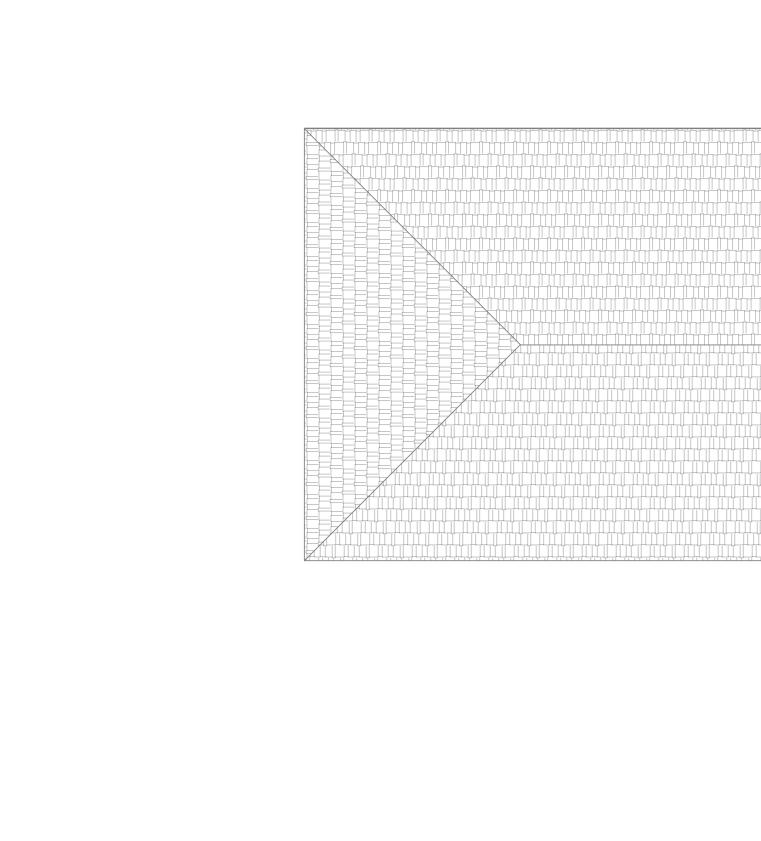
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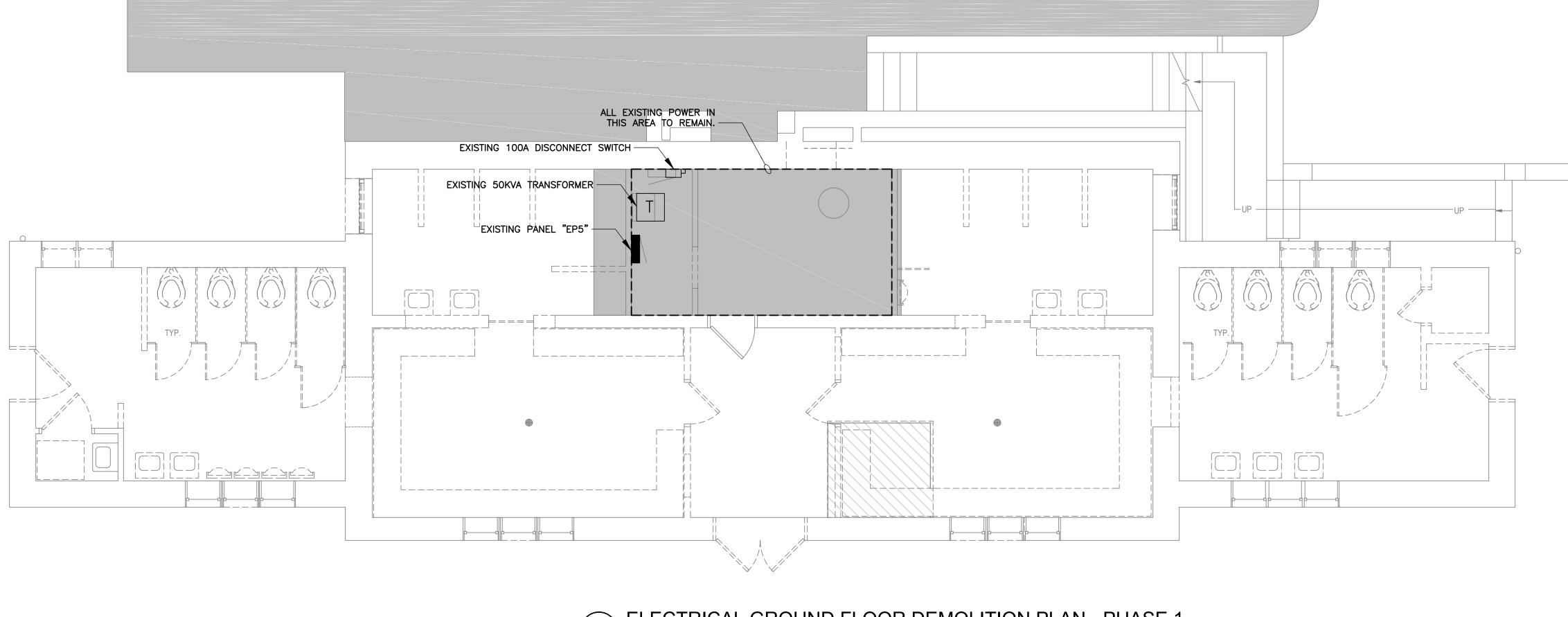
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ELECTRICAL NOTES:

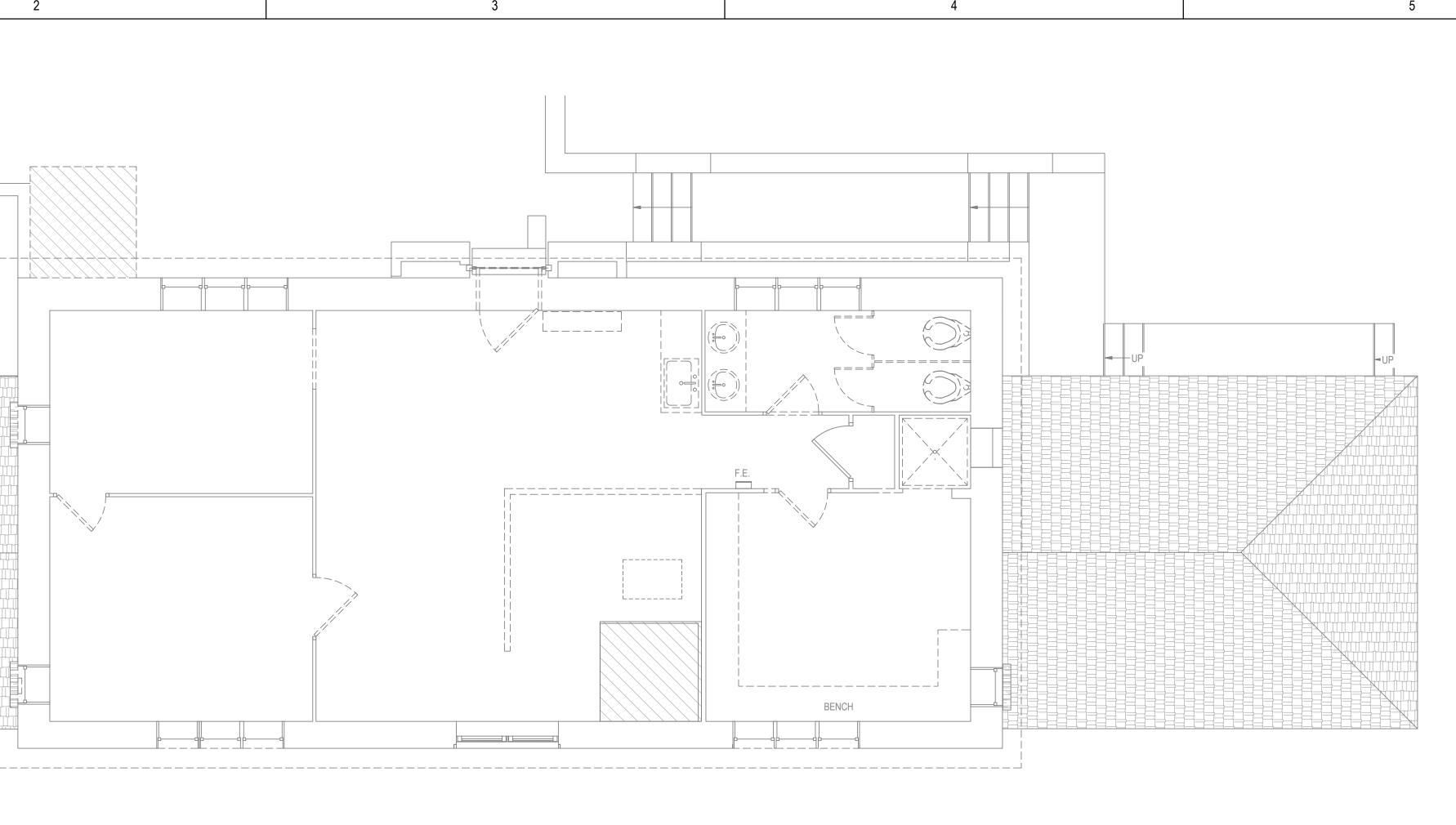
- 1. REMOVE ALL EXISTING ELECTRICAL DEVICES, LIGHTING FIXTURES, AND CONTROLS, REMOVE WIRING AND CONDUIT
- BACK TO PANEL.







ORIGINAL SHEET - ARCH D



) ELECTRICAL FIRST FLOOR DEMOLITION PLAN - PHASE 2 SCALE: 1/4"=1'-0" 2

ELECTRICAL GROUND FLOOR DEMOLITION PLAN - PHASE 1 SCALE: 1/4"=1'-0"



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1923 BUILDING RENOVATION FLOWER PARK

ELECTRICAL GROUND & FIRST FLOOR

Scale

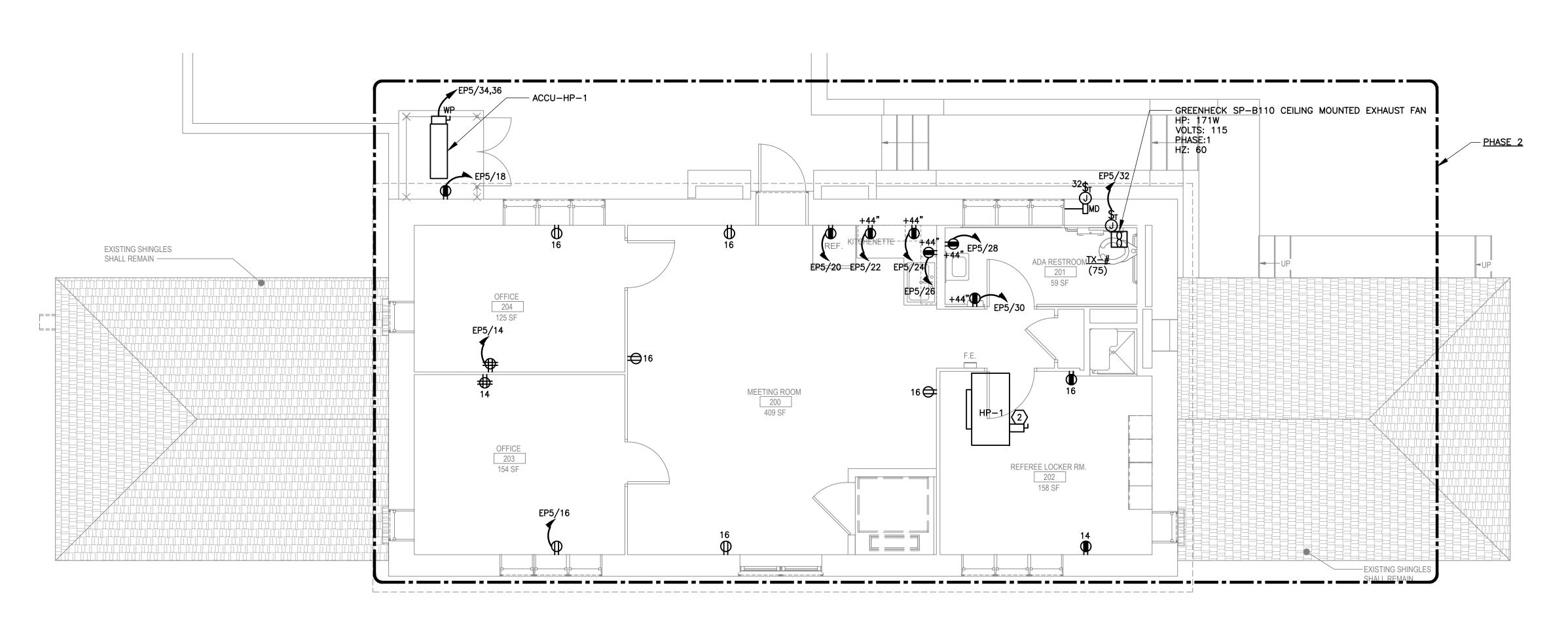
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Drawing No. **ED-101**

NEW ROCHELLE, NY 10801

DEMOLITION PLANS



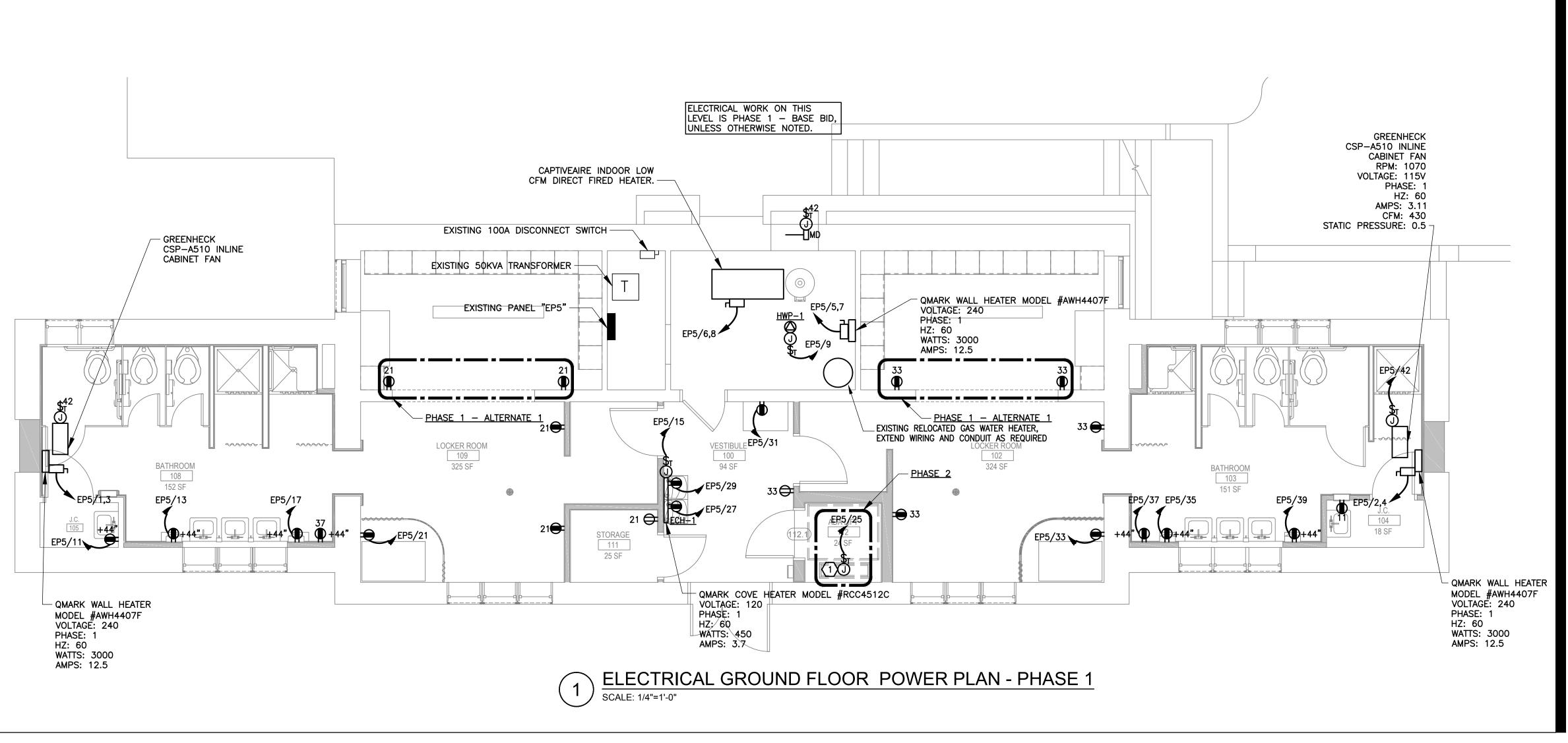


ELECTRICAL NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHT OF ELECTRICAL DEVICES, SWITCHES, AND LIGHT FIXTURES.
- 2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS, PLUMBING DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR AND PLUMBING CONTRACTOR FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT.
- 3. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE VOLTAGE, PHASE AND HORSEPOWER OF ELECTRICAL EQUIPMENT PURCHASED AND SUPPLY TO THE SITE. ELECTRICAL CONTRACTOR SHALL SUPPLY FUSES OR CIRCUIT BREAKERS PER MANUFACTURER'S RECOMMENDATIONS WHERE NECESSARY.
- 4. CIRCUIT NUMBERS ARE FOR DIAGRAMMATIC PURPOSES ONLY.
- 5. ALL RECEPTACLES INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF THE SINK SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.
- 6. ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL RECEPTACLES WITH PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED, BY LABELING EACH WALLPLATE WITH PERMANENT TYPE LABEL. LABEL SHALL BE TYPED, SELF-ADHEVISE TYPE. PROVIDE COMPLETE TYPEWRITTEN PANEL SCHEDULE DIRECTORY.
- 7. ALL JUNCTION BOXES AND DISCONNECT SWITCH LOCATIONS SHALL BE COORDINATED IN THE FIELD.
- 8. COORDINATE ALL DEVICE FINISHES WITH ARCHITECT.
- 9. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN SOFFITS WHERE FEASIBLE. COORDINATE INSTALLATION WITH OTHER TRADES.

POWER KEY NOTES:

- 1 ELECTRICAL CONTRACTOR SHALL PROVIDE A 20A, 120V CIRCUIT FOR ADA LIFT. PROVIDE ALL CONDUIT AND WIRING FOR SWITCHES AND CONTROLS AS REQUIRED. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENTS.
- 2 ELECTRICAL CONTRACTOR SHALL PROVIDE (3) #12 WIRE IN 3/4" CONDUIT FROM OUTDOOD ACCULUTE TO THE T 3/4" CONDUIT FROM OUTDOOR ACCU-HP-1 UNIT TO INDOOR HP-1 UNIT.



ORIGINAL SHEET - ARCH D

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NEW ROCHELLE

491 5TH AVE,

Title

Project No.

Revision

191506465

Client/Project

1923 BUILDING RENOVATION FLOWER PARK

ELECTRICAL GROUND & FIRST FLOOR

Scale

AS NOTED

Drawing No.

E-101

NEW ROCHELLE, NY 10801

POWER PLANS

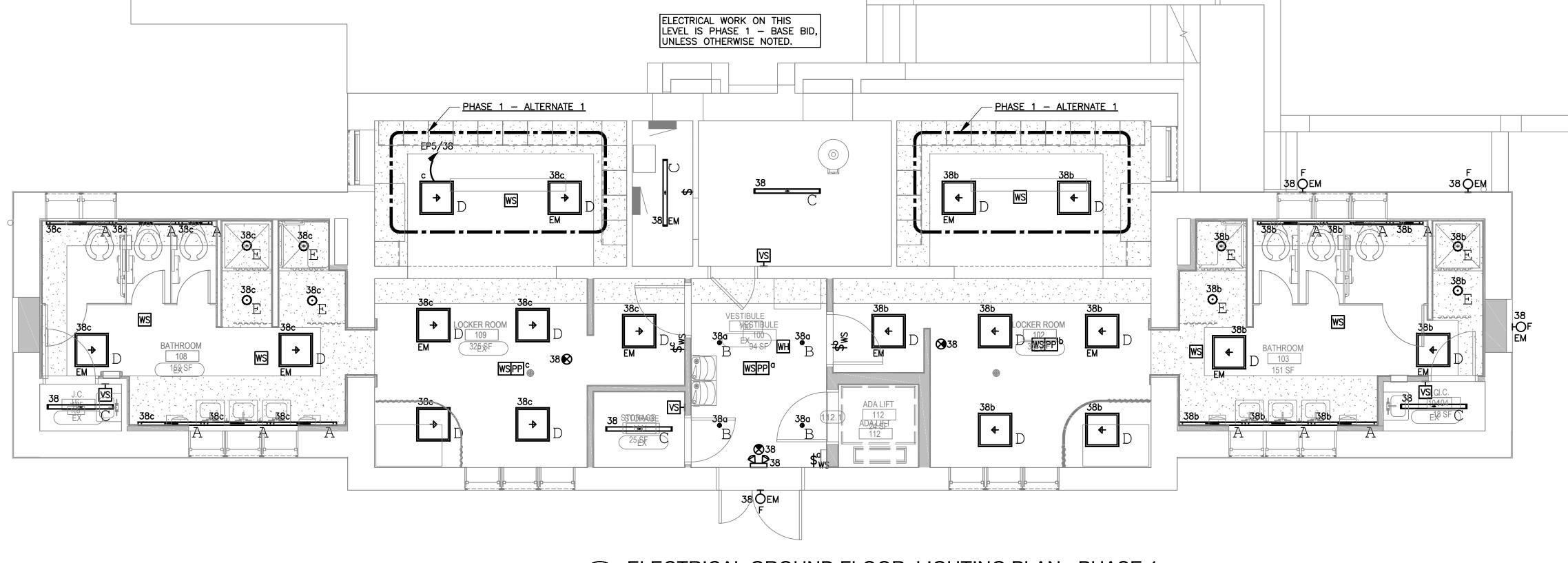


LIGHTING NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHT OF LIGHT FIXTURES AND SWITCHES. REFER TO DRAWING E-402 FOR LIGHTING FIXTURE SCHEDULE.
- 2. ALL EXIT SIGNS SHALL BE CIRCUITED AHEAD OF ANY CONTROLS.
- "EM" INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK. FIXTURES SHALL ILLUMINATE TO 100% UPON LOSS OF NORMAL POWER.
- 4. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR CEILING MOUNTED SENSOR AND WALL MOUNTED SENSOR LOCATIONS.
- 5. PROVIDE ON-SITE VISITS BY CONTROL SYSTEM VENDOR'S APPLICATION ENGINEER AND SYSTEMS PROGRAMMER TO INSPECT, START-UP, COMMISSION, AND PROGRAM THE LIGHTING SYSTEM IN ORDER TO PROVIDE A COMPLETE, FULLY-FUNCTIONING LIGHTING SYSTEM.
- 6. PROVIDE EIGHT (8) HOURS INSTRUCTION TO THE OWNER'S REPRESENTATIVE DESIGNATED STAFF ON THE USE, OPERATION AND MAINTENANCE OF THE SYSTEM, SCHEDULED AS A MINIMUM OF TWO (2) SEPARATE SESSIONS, BY AN INSTRUCTOR FULLY KNOWLEDGEABLE AND QUALIFIED IN SYSTEM OPERATION. THE SYSTEM REFERENCE MANUALS SHOULD BE COMPLETE AND AVAILABLE DURING THESE DEMONSTRATIONS/INSTRUCTION.
- 7. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN SOFFITS WHERE FEASIBLE. COORDINATE INSTALLATION WITH OTHER TRADES.

SEQUENCE OF OPERATIONS:

- 1. LIGHTING SHALL BE CONTROLLED VIA LUTRON VIVE'S BUILT IN TIMECLOCK. COORDINATE EXACT TIME SETTINGS WITH EACH TENANT.
- 2. SWITCHES CAN TURN ON/OFF ANY ZONE AS INDICATED BY LOWERCASE SUBSCRIPTS 'a-d.' SWITCHES OR OCCUPANCY SENSORS SHALL OVERRIDE TIMECLOCK SETTINGS AND MAINTAIN ALL LIGHTING FIXTURES IN THOSE AREAS ON FOR A MAXIMUM OF 2 HOURS.
- 3. ALL LIGHTING SHALL AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE DURING AFTER HOURS.
- 4. ALL LIGHTING IN INDIVIDUAL ROOMS WITH WALL MOUNTED SENSORS SHALL AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE ROOM.

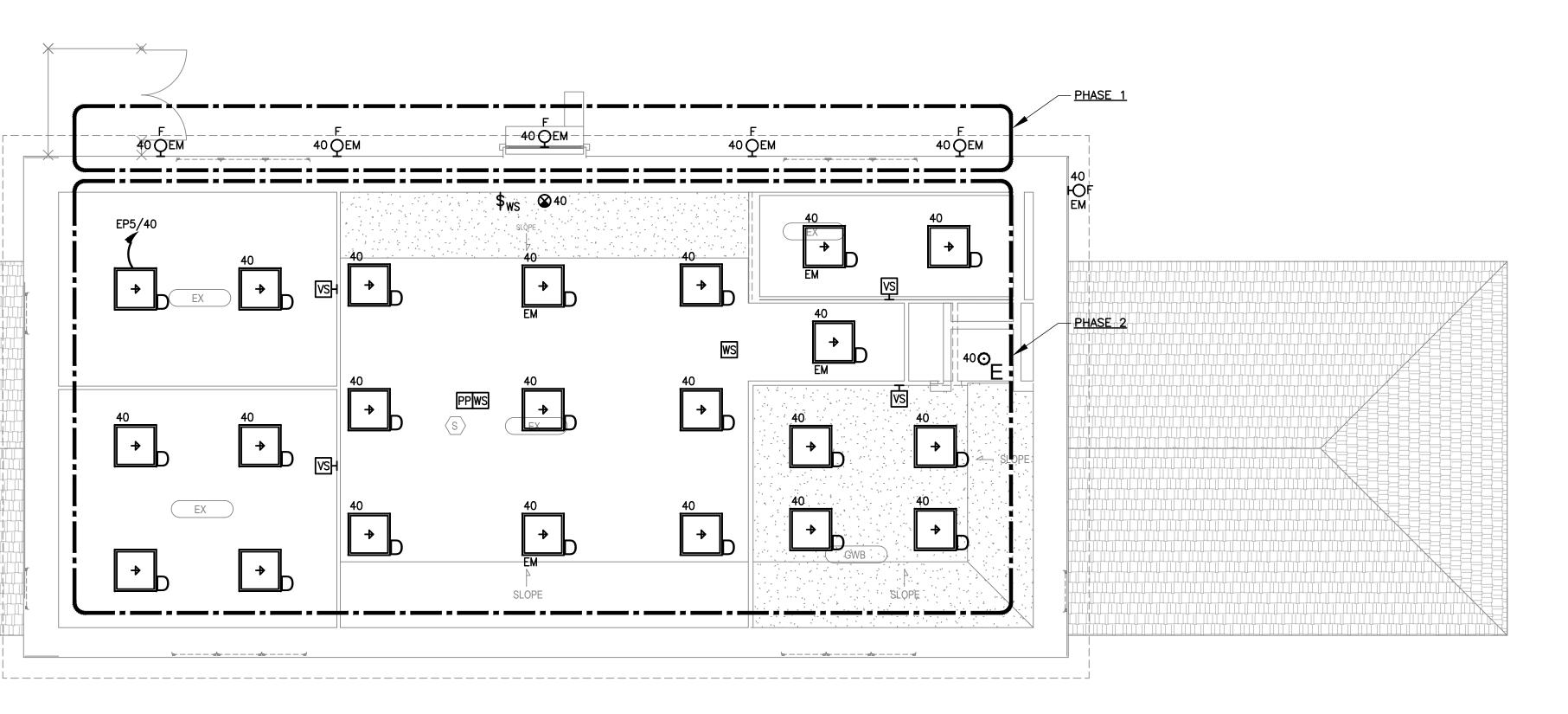


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2) ELECTRICAL FIRST FLOOR LIGHTING PLAN - PHASE 1 & 2 SCALE: 1/4"=1'-0"

ELECTRICAL GROUND FLOOR LIGHTING PLAN - PHASE 1



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Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

ELECTRICAL GROUND & FIRST FLOOR LIGHTING PLANS

Project No. 191506465

Scale AS NOTED

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L DES	GNAT	FION : EP5								
VOLTAGE 120/240 V NEUTRAL		100%		0%	QUANTITY OF POLES	42]			
PHASE		1 Ø	SCC RATING (SYM)		42 K.A.I.C.		MAIN CIRCUIT BREAKER	200 A		
WIRE 3W+G		Ļ	<u></u>		MAIN BUS	200 A				
FEED		MOUNTED X DUGH LUGS X KS : EXISTING	NEN	/IA 1 EM	NCLOSI	JRE X	GROUND BU	X au]	
TRIP		LOAD DES	CRIPTION	ØA (VA)	ØB (VA)		LOAD DESCRIPTION	TRIP	CKT #]
20A		BATHROON 2#12 + 1#12 (3000	3000		BATHROOM HEATER 2#12 + 1#12 GRD - 3/4"C.	20A	2]
20A	BATHROOM HEATER 2#12 + 1#12 GRD - 3/4"C.		1500	1500		HEATER 2#12 + 1#12 GRD - 3/4"C.	20A	6 8		
20A	HW	HWP-1		<mark>50</mark>			EXISTING		10	
20A	1ST FL. JAN. CL GFI REC.			180		EXISTING		12		
20A	1ST FL. BATHROOM GFI REC.		1260			2ND FL. QUAD RE	C. 20A	14]	
20A	COVE HEATER			810		2ND FL. OFFICE RE	C. 20A	16		
20A	1ST	FL. BATHROOM GFI	I REC.	360			EXT REC.		18]
20A	SPA	RE			480		2ND FL. REF. RE	C. 20A	20	
20A	1ST	FL. EXAM TABLE RE	EC.	720			2ND FL. KITCHEN GFI RE	C. 20A	22	
20A	SPA	RE			180		2ND FL. KITCHEN GFI RE	C. 20A	24	
20A	ADA			1780			2ND FL. KITCHEN GFI RE	C. 20A	26	
20A	1ST	FL. GFI REC.			540		2ND FL. ADA RESTROOM GFI REC.		28	
20A	1ST	FL. GFI REC.		540			2ND FL. ADA RESTROOM GFI RE	C. 20A	30	
20A	1ST	FL. ICE GFI REC.			410		2ND FL. FAN		32]
20A	1ST	FL. EXAM TABLE RE	EC.	3140		ACCU-HP-1		30A	34	᠕
20A	1ST	FL. BATHROOM GFI	I REC.	2780 2#10 + 1#10 GRD - 3/4"C.		30A	36	K 2		
20A	1ST	FL. BATHROOM GFI	I REC.	1180			1ST FL. LIGHTIN	NG 20A	38	1
20A	1ST	FL. BATHROOM GFI	I REC.		680		2ND FL. LIGHTIN	NG 20A	40	1
20A	SPA	RE		<mark>50</mark>			1ST FL. FA	AN 20A	42	
TOT	AL CO	NNECTED LOAD PER	R PHASE (kVA)	13.58	10.56					-
TOT	AL CO	NNECTED LOAD		24.14	KVA	116.1 A				
TOT	TOTAL DEMAND LOAD			24.52	2 KVA	117.9 A				

ELECTRICAL KEY NOTES:

D ELECTRICAL CONTRACTOR SHALL PROVIDE (31) 20A/1P CIRCUIT BREAKERS IN EXISTING PANEL. MATCH EXISTING TYPE AND KAIC RATING.

(2) ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 30A/2P CIRCUIT BREAKER IN EXISTING PANEL. MATCH EXISTING TYPE AND KAIC RATING.

3 ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 20A/2P CIRCUIT BREAKERS IN EXISTING PANEL. MATCH EXISTING TYPE AND KAIC RATING.

Project No. 191506465 Revision

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ELECTRICAL PANEL SCHEDULE

NEW ROCHELLE, NY 10801 Title

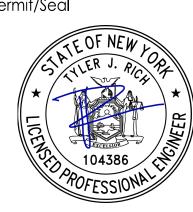
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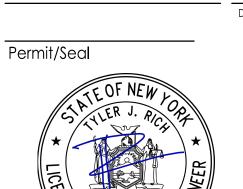
1923 BUILDING RENOVATION FLOWER PARK

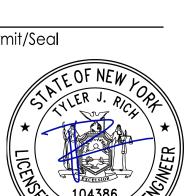
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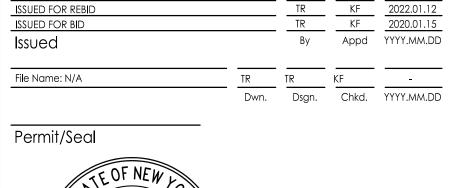








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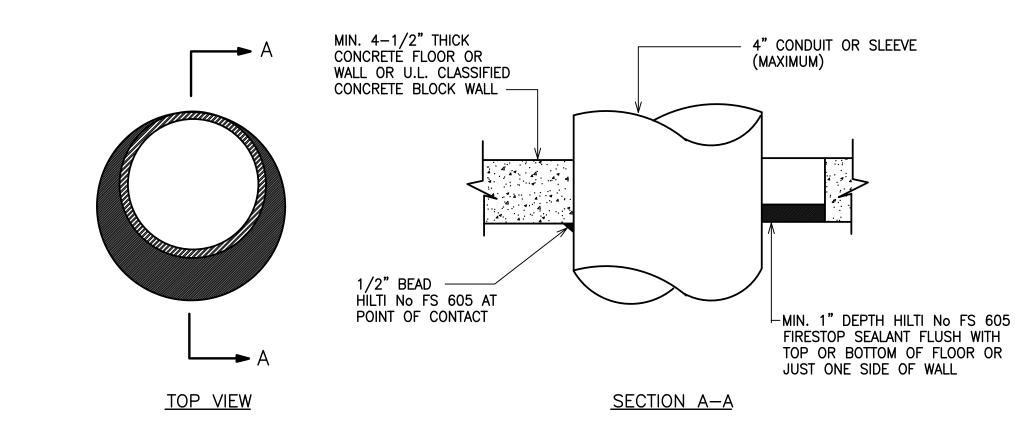


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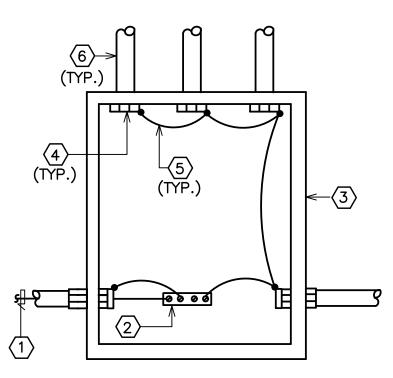
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DETAIL OF CONDUIT THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL N.T.S.

NOTES:

- 1. CONDUIT MAY BE CENTERED OR OFFSET IN HOLE. MAXIMUM DIAMETER OF HOLE OPENING IS 14 INCHES.
- 2. TEMPORARY FORMS MAY BE REQUIRED TO SUPPORT THE FIRESTOP SEALANT WHILE IT CURES.
- 3. FOR CONDUIT SLEEVE INSTALATIONS PROVIDE AROUND CONDUCTORS WITHIN SLEEVE.



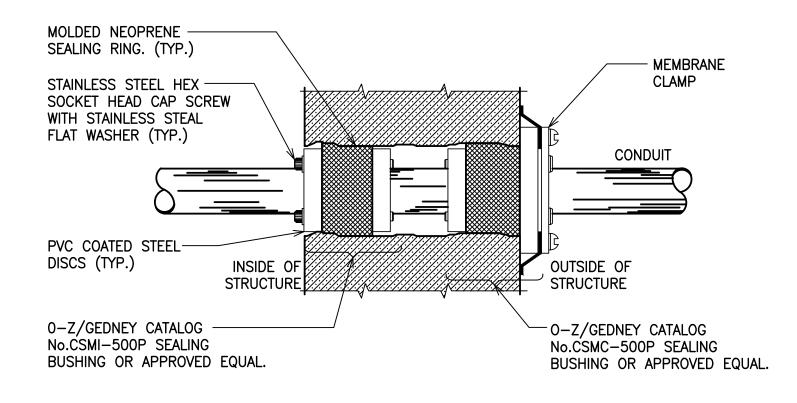
RACEWAY EQUIPMENT GROUNDING SYSTEM

<u>N.T.S.</u>

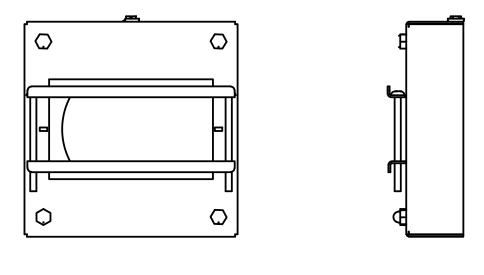
- (1) SYSTEM EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC TABLE 250.122
- 2 PANELBOARD EQUIPMENT GROUND BUS
- SERVICE ENTRANCE EQUIPMENT SWITCHBOARD/ PANELBOARD ENCLOSURE. $\langle 3 \rangle$
- (4) GROUNDING BUSHING
- 5 BONDING JUMPER INSTALLED AS PER NEC ARTICLE 250
- 6 METAL CONDUIT, TYPICAL

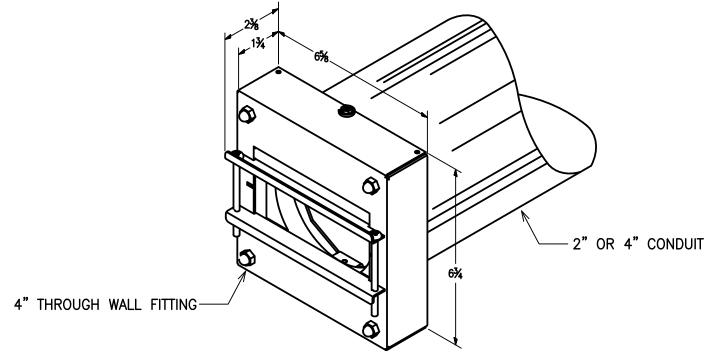
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EXTERIOR WALL PENETRATION DETAIL N.T.S.

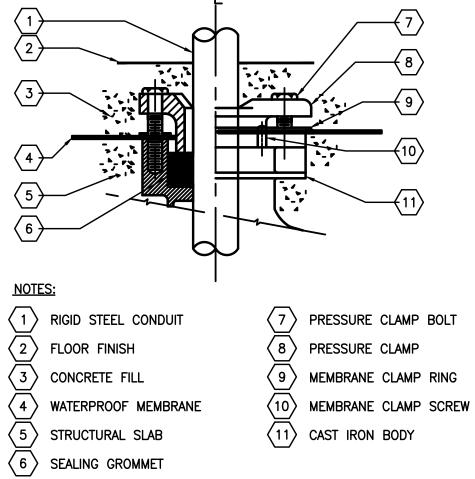




TYPICAL CONDUIT THRU-WALL FIRESTOPPING DETAIL N.T.S.

NOTES:

- 1. CONTRACTOR TO PROVIDE FITTING ON EACH END OF CONDUIT(S). FOR 4" CONDUITS UTILIZE WIREMOLD FLAMSTOPPER CAT №.FS4-FY. FOR 2" CONDUITS UTILIZE WIREMOLD FLAMSTOPPER CAT No.FS2-FY. AT CONTRACTORS OPTION, UTILIZE PRE-CUT 2", 4" CONDUITS, WIREMOLD CAT No.FSPCC2725 OR FSPCC4725 RESPECTIVELY. PRE-CUT CONDUITS ARE 7-5/16" IN LENGTH. PROVIDE ADEQUATE SPACING BETWEEN CONDUIT BANKS TO ALLOW FOR INSTALLATION OF FITTING.
- DETAIL/SPECIFICATIONS APPLICABLE FOR ALL LOW VOLTAGE CABLING PASSING THROUGH ALL FIRE RATED WALLS. CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
- 3. IF UTILIZED IN CONJUNCTION WITH CABLE TRAY, PROVIDE GROUND HARDWARE AND CONNECTIONS AS REQUIRED.



FLOOR SLEEVE N.T.S.





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NEW ROCHELLE, NY 10801

ELECTRICAL DETAILS

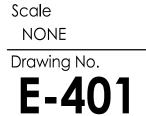








1923 BUILDING RENOVATION FLOWER PARK



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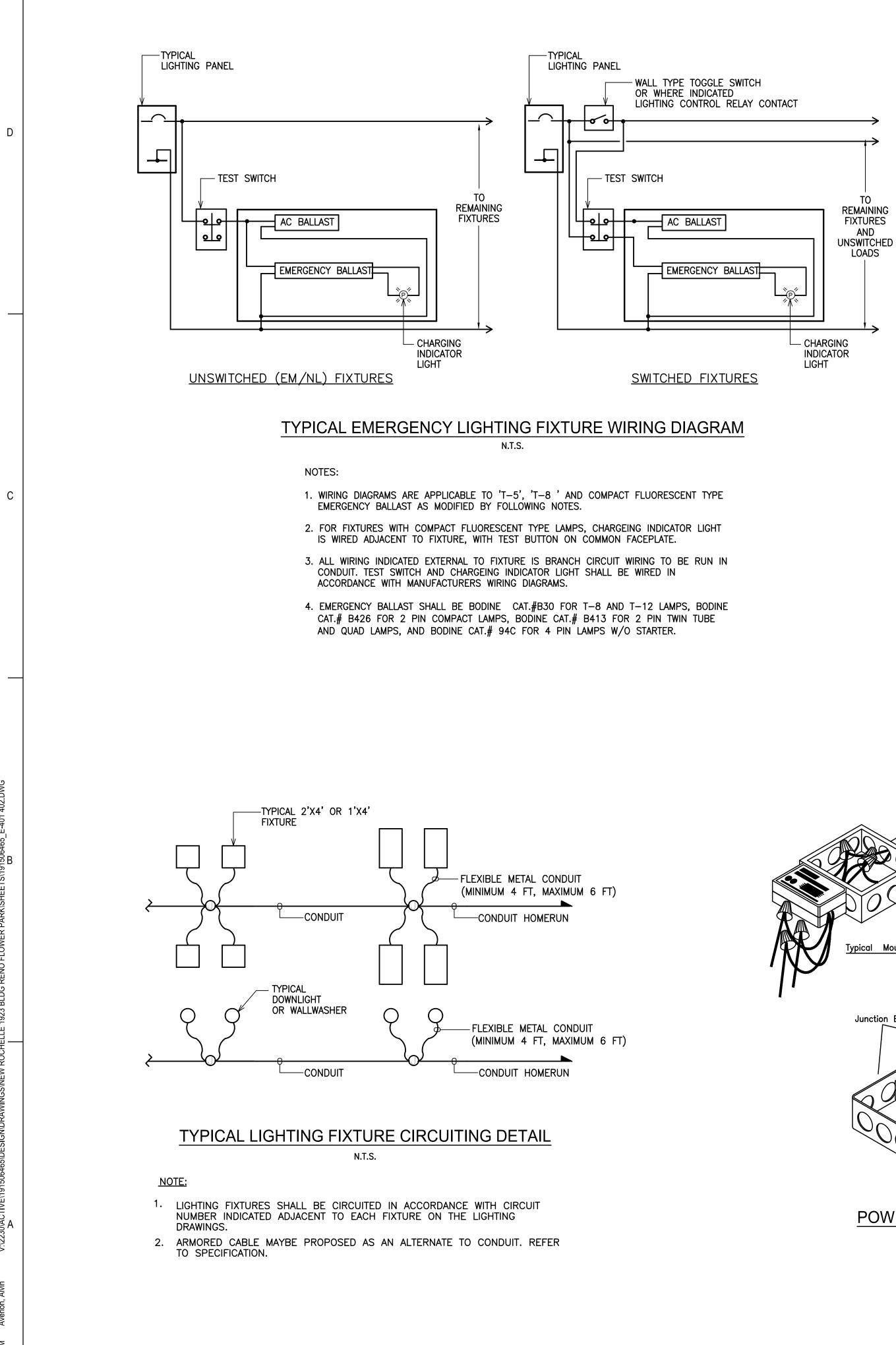
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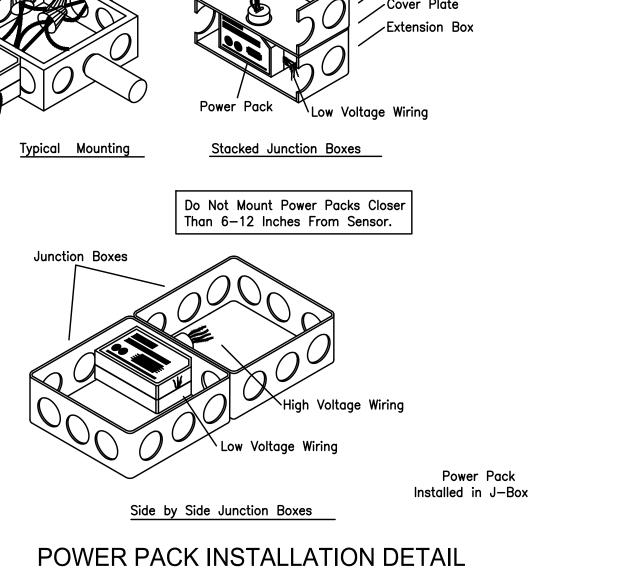
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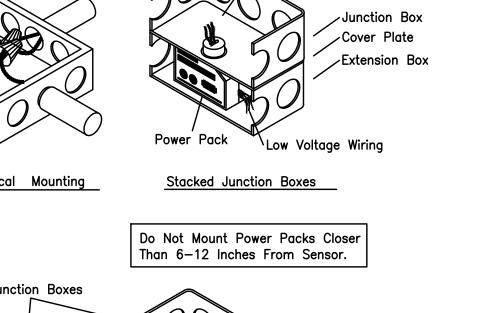


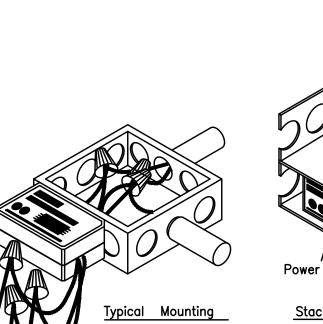


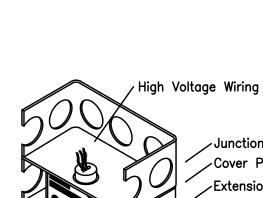




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LIGHTING FIXTURE SCHEDULE

COORDINATE WITH ARCHITECT FOR ALL LIGHT FIXTURE FINISHES AND MOUNTING REQUIREMENTS. 2. REFER TO LIGHTING PLANS FOR LENGTHS REQUIRED FOR FIXTURE TYPE 'A.'

FIXT. TYPE/ SYMBOL	DESCRIPTION	VOLTAGE	MANUFACTURER			
A	SURFACE MOUNTED LINEAR	120	AXIS			
• _B	SURFACE MOUNTED 3" CYLINDER	120	LIGHTHEADED			
	MULTIPURPOSE LINEAR	120	Columbia lighting			
▶ D	SURFACE MOUNTED 2X2	120	AXIS			
• E	SURFACE MOUNTED 12" DOWNLIGHT	120	KIRLIN			
ЮF	EXTERIOR WALLPACK	120	HUBBELL OUTDOOR			

<u>120V</u>

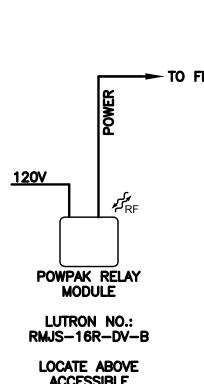


LUTRON NO .: HJS-0-FM

LOCATE ON CEILING

WIRELESS CONTROL

STATION LUTRON NO .: PJ2-2B-GWH-L01 + CW-1-WH



LOCATE ABOVE ACCESSIBLE CEILING

CATALOG LAMP NUMBER BSLED-500-80-30-SO-#-W-UNV-DP-1-S (18W) LED C3S-R-6-21-21-B40-30-9010-P-X-3C-X (13W) LED MPS4-30MW-CW-EU (31W) LED DAYLED-22-2500-80-30-W-UNV-DP-1-SM (22W) LED LSV-12487-1000L-D1-30K-23-80 (19W) LED (28W) LED LNC2-12LU-4K-3-BL-PCU-EH

POWER SUPPLY

WIRELESS SIGNAL TO DEVICES

WIRELESS HUB

TYPICAL (SEE LIGHTING PLANS) TYPICAL (SEE LIGHTING PLANS)



LUTRON NO.: LRF2-OCR2B-P-WH LOCATE ON CEILING

TYPICAL (SEE LIGHTING PLANS)

- TO FIXTURE

LIGHTING CONTROLS WIRING DIAGRAM N.T.S.

> 191506465 Revision

Project No.

Scale NONE

1923 BUILDING RENOVATION FLOWER PARK

ELECTRICAL DETAILS

Title

NEW ROCHELLE, NY 10801

491 5TH AVE,

Drawing No. E-402

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PART 1	– GENERAL:		
1.1	SCOPE OF WORK:		С. Т
	FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVIC— ES NECESSARY FOR THE COMPLETE INSTALLATION OF ELECTRICAL ITEMS AS INDI— CATED ON THE DRAWINGS, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:		-
	A. DEMOLITION AND REMOVAL OF ELECTRICAL EQUIPMENT AS REQUIRED INCLUDING ALL CONDUCTORS AND CONDUIT BACK TO ITS SOURCE.		
	B. INSTALLATION OF LIGHT FIXTURES AND LAMPS INCLUDING EXIT AND EMERGEN- CY LIGHTING.		D. U
	C. INSTALLATION OF WALL SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.		
	D. INSTALLATION OF NEW RACEWAY AND CONDUCTORS FOR LIGHTING AND POWER.		
	E. CUTTING, CHANNELLING AND CHASING REQUIRED TO ACCOMMODATE THE INSTAL- LATION OF ELECTRICAL WORK AND ROUGH PATCHING.		 -
	F. ADDITION AND/OR MODIFICATION OF EXISTING ELECTRICAL DISTRIBUTION EQUIP- MENT.		Е. Т
	G. INSTALLATION OF HVAC POWER WIRING AND FINAL CONNECTIONS TO HVAC EQUIPMENT.		
	H. INSTALLATION OF CONDUIT, JUNCTION BOXES, PULL BOXES, ETC. REQUIRED FOR THE AFOREMENTIONED EQUIPMENT.		F. T
	I. MAINTENANCE OF PROPER OPERATION OF EXISTING BASE BUILDING SYSTEMS WITHIN THE CONTRACT AREA IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING.		
	J. TEMPORARY LIGHT AND POWER DURING CONSTRUCTION.		G. T
	K. GROUNDING OF ALL EQUIPMENT AS REQUIRED BY CODE.		
	L. MODIFICATION OF EXISTING FIRE ALARM SYSTEM.		
1.2	INTERPRETATION OF DOCUMENTS:		н. и
	A. AS USED IN THE DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITIONS OF OTHER DOCUMENTS GOVERNING THE ELECTRICAL WORK.		
	1. "ELECTRICAL CONTRACTOR," "THIS CONTRACTOR," – THE PARTY OR PARTIES WHO HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE ELECTRICAL WORK AS DESCRIBED HEREIN.	PART 2	- PROI
	2. "THIS CONTRACT," "THE CONTRACT" - THE AGREEMENT COVERING THE	2.1	PANELB
	WORK TO BE PERFORMED BY "THIS CONTRACTOR." 3. "EQUAL," "SATISFACTORY," "ACCEPTED," "ACCEPTABLE" "EQUIVALENT" – ACCEPTABLE FOR USE ON THE PROJECT, AS DETERMINED BY THE ENDIFIED ON EXCEPTION OF THE PROJECT, AS DETERMINED BY THE		A. P
	ENGINEER BASED ON DOCUMENTS PRESENTED FOR SUCH DETERMINATION. 4. "THESE SPECIFICATIONS," "THIS SECTION, PART, DIVISION" (OF THE SPECIFICATION) – THE DOCUMENT SPECIFYING THE WORK TO BE PER–		-
	FORMED BY "THIS CONTRACTOR." 5. "THE ELECTRICAL WORK," "THIS WORK" – ALL LABOR MATERIALS,		B. F
	EQUIPMENT APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE INSTALLATION BY THE ELEC- TRICAL CONTRACTOR.		C. T
	6. "ARCHITECT," "ENGINEER," "OWNER'S REPRESENTATIVE" — THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHER— WISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.		D. F
	7. "FURNISH" – PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE ELECTRICAL WORK.		E. P
	8. "INSTALL" – UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT,		F. A
	ALL AS PART OF THE ELECTRICAL WORK. 9. "PROVIDE" – "FURNISH" AND "INSTALL."		G. F
	10. "NEW" – MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER		
1.3	BEFORE USED. GENERAL REQUIREMENTS:		H. F
	A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE	2.2	DISCONI
	FOR INSTALLATION OF ELECTRICAL WORK.		A. U
	B. THE ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL CODES/REQUIRMENTS, STANDARD OF THE NATIONAL BOARD OF UNDERWRITERS,		
	OSHA AND ALL AUTHORITIES HAVING JURISDICTION. WORK SHALL ALSO COMPLY WITH APPLICABLE BUILDING RULES AND REGULATIONS. THE BUILDING		B. C
	RULES AND REGULATIONS WHERE MORE STRINGENT THAN THIS SPECIFICATION, SHALL TAKE PRECEDENCE OVER THE SPECIFICATION UNLESS OTHERWISE NOTED. THIS CONTRACTOR IS RESPONSIBLE TO	2.3	CIRCUIT
	OBTAIN A COPY OF THE REGULATIONS PRIOR TO SUBMISSION OF BID. THE		A. C
	CONTRACTOR SHALL SECURE ALL CERTIFICATES OF REQUIRED ORDINANCES, AND		

THE CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL THIS WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

- THE ARCHITECTURAL DRAWINGS.
- MANAGEMENT.

RODUCTS

- LBOARDS:
 - PAINT.
 - ALL PANELBOARD BOXES.
 - HINGE. PROVIDE LOCKS AND KEYS.

 - ELECTRIC OR SQUARE "D" OR APPROVED EQUAL.
- NNECT SWITCHES:
 - AS INDICATED ON DRAWINGS.
- GENERAL ELECTRIC, OR SQUARE 'D'.

JIT BREAKERS:

PANELBOARD.

UPON REVIEW OF ELECTRICAL DRAWINGS AND PRIOR TO SUBMITTING HIS PROPOSAL, THE ELECTRICAL CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES OR REQUEST CERTIFICATION, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION. WHERE ANY INFORMATION OR DIRECTION IS CONFLICTING BETWEEN THIS SPECIFICATION AND THE DRAWINGS OR BETWEEN DIFFERENT SPECIFICATION SECTIONS, OR BETWEEN DIFFERENT DRAWINGS AND CLARIFICATION CANNOT BE OBTAINED, THE MORE EXPENSIVE AND STRINGENT REQUIREMENT OR DIRECTION SHALL BE ADHERED TO. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD THIS PROCEDURE NOT BE FOLLOWED.

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS AND WITH BUILDING CONSTRUCTION AND ARCHITEC-TURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE.

THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES, RECEPTACLES, ETC., SHALL BE DETERMINED FROM

THE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, THE ARCHITECT AND THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHER-WISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING

WHERE PANELBOARDS, SWITCHES, CIRCUIT BEAKERS, TRANSFORMERS, ETC. ARE EXISTING TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS, EXERCISING MECHANISMS AND PROVIDING ANY MISCELLANEOUS COMPONENTS SO THE EQUIPMENT IS IN FIRST CLASS WORKING ORDER. ALL TRANSFORMER WINDINGS SHALL BE MEGGER TESTED.

PANELBOARD BOX SHALL BE MADE OF SHEET STEEL "BENT-UP" OR RIVETED OR BOLTED TOGETHER WITH EXTERIOR ANGLE IRON FRAME. BOX SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER AT LEAST 5-3/4" IN WIDTH ENTIRELY SURROUNDING EACH SECTION OF BOARD. INCREASE SIZE TO ACCOMMODATE FEEDER SIZE. PANELBOARDS SHALL BE SURFACE OR FLUSH TYPE AS NOTED ON THE DRAWINGS. PANEL BOXES SHALL BE GIVEN TWO COATS OF GREY ENAMEL

PROVIDE CODE GAUGE STEEL DOORS AND TRIMS (DOOR WITHIN A DOOR) FOR

TRIMS SHALL BE ATTACHED DIRECTLY TO BOX BY A FULL LENGTH PIANO

PANEL BUS BARS SHALL BE COPPER PROPORTIONED FOR A CURRENT DENSITY OF 1000 AMPERES PER SQUARE INCH OF CROSS-SECTIONAL AREA. PROVIDE A COPPER GROUND BAR IN EACH PANEL. PROVIDE AN ISOLATED GROUND BAR IN PANELS AS INDICATED ON PANEL SCHEDULES.

PANELS SHALL BE PROVIDED WITH NEUTRAL BARS SIZED AT 200% OF THE PHASE BUS BARS AS CALLED FOR ON PANEL SCHEDULES.

A TYPEWRITTEN LIST OF CIRCUITS SHOWING CLEARLY THE LOADS SUPPLIED BY EACH CIRCUIT SHALL BE INSTALLED ON THE INSIDE OF EACH PANELBOARD DOOR. THIS LIST SHALL BE MOUNTED IN A STEEL FRAME UNDER A PLASTIC WINDOW. EACH PANEL SHALL BE EXTERNALLY TAGGED WITH PERMANENT LAMACOID PLATE INDICATING PANEL IDENTIFICATION AND VOLTAGE.

PHASE LEGS OF ALL PANELS SHALL BE BALANCED AT SUPPLY POINT. ANY PANEL FOUND WITH UNBALANCED LOADS SHALL HAVE ITS CIRCUITS REARRANGED AS REQUIRED TO BALANCE PHASE LEGS WITHIN 10%.

PANELS SHALL BE AS MANUFACTURED BY WESTINGHOUSE, GENERAL

UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES SHALL BE "QUICK-MAKE, QUICK-BREAK," HEAVY DUTY TYPE IN NEMA 1 ENCLOSURES FUSED OR UNFUSED AS INDICATED ON THE DRAWINGS. PROVIDE ALL FUSES AS REQUIRED. PROVIDE WEATHERPROOF DISCONNECT SWITCHES WHERE INSTALLED OUTDOORS OR

DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY ITE, WESTINGHOUSE,

CIRCUIT BREAKERS SHALL BE BOLTED TO THE PANELBOARD BUS BARS. WHERE CIRCUIT BREAKERS ARE INSTALLED IN EXISTING PANELBOARDS. BREAKERS SHALL BE OF THE SAME MANUFACTURER AND BE COMPATIBLE WITH EXISTING

- B. CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK WITH NON-WELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES AND SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL FOR 120/280V PANELS AND 14,000 AMPERES SYMMETRICAL FOR 277/480V PANELS OR HIGHER WHERE NOTED.
- C. CIRCUIT BREAKERS SHALL BE OF THE "THERMAL-MAGNETIC" TYPE HAVING A BIMETALLIC ELEMENT FOR TIME DELAY OVERLOAD PROTECTION AND A MAGNETIC ELEMENT FOR SHORT CIRCUIT PROTECTION.
- D. THE CIRCUIT BREAKER SHALL BE CONTAINED IN AN INDIVIDUAL CASE ENCLOS-ING ONLY THE NUMBER OF POLES REQUIRED FOR THE PARTICULAR BREAKER.
- E. ANY CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION SHALL BE DESIGNATED AS SPARE ON PANELBOARD DIRECTORIES.
- F. CIRCUIT BREAKERS SHALL BE AS MANUFACTURED BY ITE, WESTINGHOUSE, GENERAL ELECTRIC, OR SQUARE "D".
- 2.4 FUSES:
 - A. FUSES SHALL BE CURRENT LIMITING TYPE WITH A MINIMUM INTERRUPTING CAPACITY OR 200,000 RMS AMPERES AND OF THE CONTINUOUS CURRENT RATINGS AS SHOWN ON THE DRAWINGS.
 - B. THEY SHALL HAVE AVERAGE MELTING TIME-CURRENT CHARACTERISTICS TO MEET THE UNDERWRITERS' LABORATORIES REQUIREMENTS FOR "CLASS K" 0-600 AMP FUSES AND "CLASS L" OVER 600 AMP FUSES. FUSES SHALL BE AS MANUFAC-TURED BY BUSSMAN OR SHAWMUTT.

2.5 RACEWAYS:

- A. ALL WIRES SHALL BE RUN IN CONDUIT AS SPECIFIED HEREINAFTER. EACH LENGTH OF CONDUIT SHALL BEAR THE MAKER'S TRADEMARK OR STAMP. THE PLANS INDICATE THE GENERAL LOCATION OF OUTLET BOXES AND CIRCUITING. THE CONDUIT RUNS FOR THESE CIRCUITS MAY BE MODIFIED AT THE TIME OF INSTALLATION TO ADAPT SAME TO BUILDING CONSTRUCTION.
- B. FOR ALL SIZES OF CONDUIT LARGER THAN 1-1/2", USE STANDARD ELBOWS; IN SMALLER SIZES, FIELD BENDS WILL BE PERMITTED INSTEAD OF USING MANUFACTURED ELBOWS BUT CARE MUST BE TAKEN NOT TO DAMAGE THE CON-DUIT. THE RADIUS OF THE INNER CURVE OF ANY BEND SHALL NOT BE ANY LESS THAN THAT PERMITTED BY CODE.
- C. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AND HANGERS, SUPPORTS OR FASTENINGS SHALL BE PROVIDED AT EACH ELBOW AND AT EACH END OF EACH STRAIGHT RUN TERMINATED AT A BOX OR CABINET. WHERE RISER CONDUITS PIERCE FLOOR SLABS, THEY SHALL REST ON EACH FLOOR WITH APPROVED BEAM CLAMPS, PIPE STRAPS OR HEAVY IRON TIES WIRED TO THE STRUCTURAL MEMBERS SUPPORTING EQUIPMENT. SIZE AND TYPE OF ANCHOR SHALL BE BASED ON THE COMBINED WEIGHTS OF CONDUIT, HANGER AND CABLES. ALL HANGERS AND RODS SHALL BE PAINTED WITH ONE COAT OF ENAMEL.
- D. INSTALL CONDUIT EXPANSION FITTINGS IN EACH CONDUIT RUN WHEREVER IT CROSSES AN EXPANSION JOINT AND WHEREVER THE CONDUIT LENGTH EXCEEDS 200 FEET. EXPANSION FITTINGS AS MANUFACTURED BY OZ/GEDNEY.
- RUNNING THREADS SHALL NOT BE USED. WHERE CONDUIT WITH TAPERED THREADS CANNOT BE COUPLED WITH STANDARD CONDUIT COUPLINGS, O.Z./GED-NEY SPLIT COUPLINGS, OR ERICKSON COUPLINGS SHALL BE USED.
- F. LAY OUT AND INSTALL ALL CONDUIT RUNS TO AVOID PROXIMITY TO STEAM AND HOT WATER PIPES. DO NOT RUN CONDUIT WITHIN THREE INCHES OF SUCH PIPES EXCEPT WHERE CROSSINGS ARE UNAVOIDABLE, THEN THE CONDUIT SHALL BE KEPT AT LEAST 1 INCH FROM THE COVERING OF THE PIPE CROSSING.
- G. FEEDERS AND BRANCH CIRCUITRY ABOVE HUNG CEILING AND IN PARTITIONS SHALL BE RUN IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS, LIGHT FIXTURES, ETC. MAY BE DONE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN SIX FEET).
- H. ALL CONDUIT IN MECHANICAL ROOMS, ELECTRICAL CLOSETS AND WHERE CONCEALED IN CONCRETE SHALL BE RIGID THREADED REGARDLESS OF SIZE.
- ELECTRIC METALLIC TUBING SHALL BE INDUSTRY STANDARD THIN WALL CONDUIT. EMT SHALL BE HOT DIPPED GALVANIZED STEEL ONLY. IT SHALL NOT BE LESS THAN 3/4" TRADE SIZE. IT SHALL BE USED FOR TRADE SIZE UP TO 4" UNLESS OTHERWISE NOTED.
- J. FLEXIBLE METALLIC CONDUIT SHALL BE OF THE GROUNDING TYPE. IT SHALL CONSIST OF GALVANIZED STEEL TAPS FORMED INTO AN INDUSTRY STANDARD INTERLOCKING COIL. IT SHALL NOT BE LESS THAN 3/4" TRADE SIZE.
- K. RIGID METAL CONDUIT SHALL BE INDUSTRY STANDARD STEEL CONDUIT. IT SHALL NOT BE LESS THAN 3/4" TRADE SIZE. STEEL CONDUIT SHALL BE HOT DIPPED GALVANIZED. IT SHALL BE USED FOR TRADE SIZE GREATER THAN 4" UNLESS OTHERWISE NOTED.
- THREADED FITTINGS SHALL BE USED WITH RIGID CONDUIT. SET SCREW OR COMPRESSION FITTINGS SHALL BE USED WITH EMT.
- M. EMPTY CONDUIT FOR NEW TELEPHONE AND DATA OUTLETS IN PARTITIONS SHALL BE 1" THIN WALL RUN CONCEALED IN WALLS, TERMINATED AND BUSHED 6" IN ACCESSIBLE HUNG CEILING AND DIRECTED TOWARDS PARTICULAR TELE-PHONE/DATA ROOM OR CLOSET. FURNISH DRAG LINE.
- N. RACEWAY SHALL BE MANUFACTURED BY NATIONAL WIRE PRODUCTS, TRIANGLE OR REPUBLIC.

BFTTS.

L. SUPPORT CONDUCTORS IN VERTICAL RACEWAYS AT THE TOP OF ANY RACEWAY LONGER THAN 20 FEET. INCLUDE ADDITIONAL SUPPORTS SPACED AT INTER-VALS WHICH ARE NOT GREATER THAN 40 FEET. SUPPORT SHALL BE 0.Z./GED-NEY TYPE R.

2.7 DEVICES:

A. WIRING DEVICES SHALL BE SPECIFICATION GRADE UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. REFER TO SYMBOL LIST.

D. DIMMER SWITCHES SHALL BE LUTRON NOVA T STAR SERIES OR APPROVED EQUAL. UTILIZE NT SERIES FOR STANDARD INCANDESCENT AND NTLV SERIES FOR LOW VOLTAGE LIGHTING WHICH UTILIZE TRANSFORMERS. DIMMERS SHALL BE RATED AT 120 VOLT. WATTAGE SIZE AS REQUIRED. FINISH AS DIRECTED BY ARCHITECT. WHERE DIMMER SWITCHES ARE LOCATED NEXT TO SINGLE POLE LOCK AND TOGGLE TYPE SWITCHES. THE SINGLE POLE SWITCH SHALL MATCH THE DIMMING SWITCH STYLE.

G. MULTIPLE DEVICES AT A COMMON LOCATION SHALL BE INSTALLED IN A COMMON MULTIGANG BOX WITH A COMMON FACEPLATE. DERATE DIMMER SWITCHES PER MANUFACTURER'S REQUIREMENTS WHEN GANGED.

2.8

PULLBOXES. JUNCTION BOXES AND OUTLET BOXES:

R

PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.

PULLBOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM C. BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.

D.

SWITCH, RECEPTACLE AND WALL OUTLET BOXES SHALL BE A NOMINAL 4 INCH SQUARE, 1-1/2 INCH OR 2-1/8 INCH DEEP AS REQUIRED BY CODE WITH A RAISED COVER, UNLESS OTHERWISE INDICATED ON THE DRAWING. PROVIDE 3/8 INCH FIXTURE STUD AS REQUIRED. GANGED OUTLET BOXES SHALL BE SUFFICIENT LENGTH TO SUIT CONDITIONS.

2.6 WIRE AND CABLE:

A. METAL CLAD CABLE (TYPE MC) FOR CONCEALED BRANCH CIRCUITRY MAYBE USED WHEN AN ALTERNATE PRICE IS SUBMITTED FOR ITS USE AND WHEN WRITTEN APPROVAL IS GIVEN TO THE CONTRACTOR FROM THE BUILDING OWNER AND ENGINEER. IT SHALL ONLY BE INSTALLED WHERE PERMITTED BY CODE. ARMORED CABLE SHALL BE AS MANUFACTURED BY AFC OR APPROVED EQUAL.

B. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE

C. THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG EXCEPT 120 VOLT CIRCUITS OVER 100' IN LENGTH SHALL BE NO. 10 AWG.

D. UNLESS SPECIFIED OTHERWISE, ALL WIRES #10 AWG AND SMALLER SHALL BE SOLID, CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.

E. FACTORY COLOR CODING SHALL BE AS FOLLOWS:

120/208 VOLT SYSTEM: PHASE 'A' - BLACK, PHASE 'B' - RED, PHASE 'C' -BLUE, NEUTRAL - WHITE, EQUIPMENT GROUND - GREEN.

277/480 VOLT SYSTEM: PHASE 'A' - BROWN, PHASE 'B' - YELLOW, PHASE 'C' – ORANGE, NEUTRAL – WHITE, EQUIPMENT GROUND – GREEN.

F. INSTALL AND CONNECT UP COMPLETE CONDUCTORS FOR ALL CIRCUITS AND WIRING SYSTEMS (NOT MORE THAN A SINGLE 3 CIRCUIT HOMERUN IN A CONDUIT) UNLESS OTHERWISE NOTED.

G. NO CONDUCTORS SHALL BE PULLED INTO ANY CONDUIT RUN BEFORE ALL CONDUIT JOINTS ARE MADE UP TIGHTLY, AND THE ENTIRE RUN IS SECURED IN PLACE. WHEN REQUIRED TO EASE THE PULLING OF WIRES INTO CONDUIT, USE POWDERED SOAPSTONE, MINERALLAC #100 OR APPROVED EQUAL BY THOMAS AND

H. TAG ALL FEEDERS IN ALL PULL BOXES, GUTTER SPACES, AND WIREWAYS THROUGH WHICH THEY PASS.

LEAVE ALL WIRES WITH SUFFICIENT SLACK AT TERMINAL ENDS FOR CONVE-NIENT LOCATIONS TO DEVICES AND FOR CONVENIENT SERVICING.

J. MAKE SPLICES IN FEEDER TAPS IN PANEL BOX GUTTERS WITH PRESSURE TYPE CONNECTORS - BURNDY, NEPCO, OR O.Z./GEDNEY WITH COMPOSITION INSULAT-ING COVERS.

K. SPLICES IN BRANCH WIRING SHALL BE TWISTED AND MADE MECHANICALLY TIGHT; THEN SECURED WITH 3M, SCOTCHLOCK OR THOMAS AND BETTS PIGTAIL CONNECTORS, CRIMP TYPE CONNECTORS SHALL NOT BE USED.

M. WIRE AND CABLE SHALL BE MANUFACTURED BY ROME, PHELPS DODGE, GENERAL CABLE, SIMPLEX, GENERAL ELECTRIC CO. OR ANACONDA.

B. SINGLE POLE SWITCHES SHALL BE 120/277 VOLTS, RATED AT 20 AMPERES, QUIET OPERATION TYPE. FINISH OF TOGGLE AND DEVICE PLATE AS DIRECT-ED BY ARCHITECT.

C. THREE WAY SWITCHES SHALL BE 120/277 VOLT, 20 AMPERES.

E. SWITCH AND RECEPTACLE PLATES SHALL BE PLUMB AND SHALL FIT FLAT AGAINST THE WALL.

F. ALL SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS SHALL BE TAKEN FROM ARCHITECT'S DRAWING UNLESS OTHERWISE NOTED.

PULLBOXES, JUNCTION BOXES AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD GAUGE SHEET STEEL.

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Permit/Seal

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Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE,

NEW ROCHELLE, NY 10801 Title

ELECTRICAL SPECIFICATIONS

Project No.

191506465

NONE Drawing No. E-50

Scale

Revision

- E. LIGHTING FIXTURE BOXES SHALL BE 4 INCH OCTAGON WITH 3/8 INCH FIXTURE STUD. FOR SUSPENDED CEILING WORK, PROVIDE A 4 INCH OCTAGON BOX WITH REMOVABLE BACKPLATE WHERE REQUIRED.
- F. INCLUDE ALL REQUIRED JUNCTION/PULL BOXES AND OUTLET BOXES REGARDLESS OF INDICATIONS ON THE DRAWINGS (WHICH DUE TO SYMBOLIC METHODS OF NOTATION. MAY NOT SHOW ALL THAT ARE ACTUALLY REQUIRED).
- G. WHERE BOXES HAVE ANY SINGLE HORIZONTAL DIMENSION LARGER THAN 36" THEY SHALL BE FITTED WITH CABLE SUPPORT RACKS CONSISTING OF 3/4" DIAMETER STEEL PIPES WITH FLANGED ENDS BOLTED TO THE SIDES OR FRAME OF THE PULL BOXES. EACH PIPE SUPPORT SHALL BE FITTED WITH A CONTIN-UOUS FIBER INSULATING SLEEVE. THE PIPE SUPPORTS SHALL BE ARRANGED IN TIERS CORRESPONDING TO THE CABLES ENTERING AND LEAVING THE BOX. SUFFICIENT PIPE SUPPORT RACKS WILL BE INCLUDED WITH THE PULL BOX SO THAT NO CABLE SHALL REMAIN UNSUPPORTED FOR A HORIZONTAL DISTANCE GREATER THAN 36". IN NO CASE SHALL CABLE SUPPORT PIPE RACKS BE MOUNTED SO THAT THEY INTERFERE WITH THE REMOVAL OF SCREW COVERS.
- H. WHERE THE WIRES AND CABLES FOLLOWING THE SAME ROUTING ARE INDICATED AS RUNNING IN SEPARATE PULL BOXES, IT SHALL BE UNDERSTOOD THAT A SEGREGATION OF THE WIRES AND CABLES IS REQUIRED.
- I. BARRIERS SHALL BE PROVIDED FOR SYSTEMS AS FOLLOWS:
 - 1. BETWEEN WIRING WITH DIFFERENT VOLTAGE INSULATION RATINGS.
 - BETWEEN NORMAL AND EMERGENCY WIRING. 2.
 - BETWEEN 277 VOLT WIRING CONNECTED TO DIFFERENT PHASES WITHIN THE 3. SAME LIGHT SWITCH OUTLET BOX.
- BARRIERS IN JUNCTION AND PULL BOXES SHALL BE OF NON-CURRENT CARRYING MATERIAL OF ADEQUATE THICKNESS FOR MECHANICAL STRENGTH BUT IN NO CASE LESS THAN 1/4". EACH BARRIER SHALL HAVE AN ANGLE IRON FRAMING SUPPORT ALL AROUND.
- K. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULLBOXES AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE COVER. IF NECESSARY AND APPROVED BY ARCHITECT, PROVIDE ACCESS DOOR OR COVERPL-ATES IN AREAS WHERE UNOBSTRUCTED ACCESS IS NOT POSSIBLE.
- BOXES SHALL BE MANUFACTURED BY APPLETON ELECTRIC, CROUSE HINDS OR L. O.Z./GEDNEY CO.
- 2.9 SLEEVES AND INSERTS
 - A. FURNISH AND INSTALL SLEEVES AND INSERTS AS INDICATED ON DRAWINGS. ALL CONDUITS AND BOXES PENETRATING WATERPROOF CONSTRUCTION SHALL BE FLASHED AND MADE WATERTIGHT.
 - SLEEVES FOR INTERIOR PARTITIONS AND FLOORS SHALL BE 16-GAUGE AND В. GALVANIZED.
 - SLEEVES THROUGH FLOORS SHALL EXTEND TWO (2) INCHES ABOVE FINISHED FLOOR EXCEPT AS NOTED. ALL FUTURE SLEEVES SHALL BE CAPPED.
 - ALL SLEEVES SHALL BE SECURELY ANCHORED IN PLACE AND PROPERLY CAPPED TO PREVENT SEEPAGE OF CONCRETE INTO SLEEVE.
 - SLEEVES SHALL BE SEALED WITH AN APPROVED FIREPROOF MATERIAL AFTER INSTALLATION OF FEEDERS.
- 2.10 SUPPORTS AND FASTENINGS
 - A. ALL SUPPORTS AND FASTENINGS NECESSARY FOR THE SUPPORT OF ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE BEST INDUSTRY PRACTICE AND AS SPECIFIED HEREIN.
 - B. FURNISH AND INSTALL ALL STEEL SUPPORTING MEMBERS, HANGERS, BRACKETS OR OTHER SPECIAL DETAILS REQUIRED AND NECESSARY FOR THE PROPER INSTALLATION OF ELECTRIC EQUIPMENT.
 - C. ALL CHANNELS, JOINERS, HANGERS AND CAPS, NUTS AND BOLTS AND ASSOCI-ATED PARTS SHALL BE PLATED ELECTROLYTICALLY WITH ZINC OR SHALL BE DIPPED GALVANIZED.
 - SUPPORT LESS THAN 2" TRADE SIZE, VERTICALLY RUN CONDUIT AT INTERVALS NO GREATER THAN 8 FEET. SUPPORT SUCH CONDUITS 2" TRADE SIZE OR LARGER, AT INTERVALS NO GREATER THAN THE STORY HEIGHT, OR 15 FT. WHICHEVER IS SMALLER.
 - WHERE THEY ARE NOT EMBEDDED IN CONCRETE, SUPPORT LESS THAN 1" TRADE F SIZE, HORIZONTALLY RUN CONDUITS AT INTERVALS NO GREATER THAN 7 FT. SUPPORT SUCH CONDUITS. 1" TRADE SIZE OR LARGER, AT INTERVALS NO GREATER THAN 10 FT.
 - INCLUDE SUPPORTING FRAMES OR RACKS EXTENDING FROM SLAB TO SLAB FOR WORK INDICATED AS BEING SUPPORTED FROM WALLS WHERE THE WALLS ARE INCAPABLE OF SUPPORTING THE WEIGHT.
 - INCLUDE SUPPORTING FRAMES OR RACKS FOR EQUIPMENT, INTENDED FOR VERTICAL SURFACE MOUNTING, WHICH IS REQUIRED IN A FREE STANDING POSITION.
 - H. EXCEPT FOR BRANCH CIRCUITRY INSTALL ALL CONDUIT IN HUNG CEILING SPACE ON ACCEPTABLE HANGERS AND INSERTS. CONDUIT OR ARMORED CABLE FOR BRANCH CIRCUITRY SHALL BE SUPPORTED BY CLAMPS OR PIPE STRAPS SECURED TO THE CEILING SUPPORT SYSTEM (BLACK IRON) OR FROM STRUCTUR-AL MEMBERS OR FROM THE DECK.
- 2.11 INSULATING BUSHINGS
 - A. ALL METAL CONDUIT AND ELECTRIC METALLIC TUBING 3/4" AND LARGER TERMINATING IN CABINETS, PULL BOXES AND SIMILAR BOXES SHALL HAVE INSULATED BUSHINGS. TYPE "B" OR TYPE "BLDG" (FOR GROUNDING BUSHING) AS MANUFACTURED BY O.Z./GEDNEY CO.

2.12 GROUNDING:

A. PROVIDE A GREEN GROUND CONDUCTOR IN CIRCUIT CONDUITS AS INDICATED.

- B. PROVIDE SUPPLEMENTARY GROUND BONDING WHERE METALLIC CONDUITS TERMI-NATE AT METAL CLAD EQUIPMENT (OR AT THE METAL PULL BOX OF EQUIPMENT) FOR WHICH A GROUND BUS IS SPECIFIED. ACCOMPLISH THIS BY EQUIPPING THE CONDUITS WITH A BUSHING OF THE GROUNDING TYPE CONNECTED INDIVID-UALLY TO GROUND BUS.
- C. ALL GROUND WIRES SHALL BE SUITABLY PROTECTED FROM MECHANICAL INJURY.
- 2.13 TEMPORARY LIGHTING AND POWER
 - A. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL TOOLS POWER FOR THE PROJECT. THIS SHALL INCLUDE INSTALLING ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.
 - TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE'S NORMAL WORK DAY.
 - C. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.
- 2.14 FIRE ALARM SYSTEM (NOT USED)

2.15 LIGHT FIXTURES

- A. ALL LIGHT FIXTURE MOUNTING HARDWARE SHALL MATCH AND BE COORDINATED WITH THE NEW OR EXISTING CEILING SYSTEM TYPE.
- B. FLUORESCENT BALLASTS SHALL BE UL'S CLASS "P" AND SHALL CONFORM TO ANSI AND UL SPECIFICATION WITH LABELS OF APPROVAL BY UL AND CERTIFI-CATION BY C.B.M. BALLASTS SHALL COMPLY WITH THE NEW YORK STATE ENERGY CODE AND SHALL QUALIFY FOR ALL APPLICABLE CON EDISON REBATES. [SPECIFIER: CHANGE TO OTHER MUNICIPALITY AS REQUIRED.] BALLASTS FOR FLUORESCENT LAMPS SHALL BE OF THE ENERGY SAVING SUPER LOW HEAT DESIGN WITH HIGH POWER FACTOR (0.9 MINIMUM) AND A HIGH BALLAST FACTOR (0.95 MINIMUM), AS MANUFACTURED BY MOTOROLA, UNIVERSAL, OR FSR.
- C. ELECTRONIC BALLASTS SHALL BE HIGH-FREQUENCY, FULL OUTPUT TYPE FOR USE ON 265 MA RAPID START T-8 LAMPS. THEY SHALL HAVE A 'A' SOUND RATING OR BETTER. ALL ELECTRONIC BALLASTS SHALL HAVE LESS THAN 20 PERCENT TOTAL HARMONIC DISTORTION (THD). BALLASTS SHALL MEET OR EXCEED FCC REGULATIONS PART 18. ELECTRONIC BALLASTS FOR 1, 2, 3, OR 4 LAMP COMBINATIONS SHALL BE USED AS REQUIRED TO ACCOMMODATE THE FIXTURE DESCRIBED IN THE FIXTURE SCHEDULE.
- PROVIDE LAMPS SUITABLE FOR LIGHTING FIXTURES IN WHICH THEY ARE USED AND AS INDICATED ON THE DRAWINGS. FLUORESCENT LAMPS SHALL BE "RAPID START" AND SHALL DELIVER NOT LESS THAN 3150 LUMENS. COLOR SHALL BE WARM WHITE UNLESS OTHERWISE NOTED. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED AND RATED AT 130 VOLTS UNLESS OTHERWISE SPECIFIED. LAMPS SHALL BE AS MANUFACTURED BY G.E., SYLVANIA, PHILIPS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
- E. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPES.
- TRANSFORMERS (NOT USED)

PART 3 - EXECUTION

3.1 GENERAL

- A. ALL CONTROL WIRING ASSOCIATED WITH MECHANICAL EQUIPMENT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- B. ALL DATA/VOICE/COMMUNICATION WIRING SHALL BE INSTALLED BY OTHERS.
- COORDINATE WITH THE RESPECTIVE INSTALLER. C. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES SHALL HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR.
- D. PREPARE "AS-BUILT" TRACINGS SHOWING ALL CHANGES IN WIRE SIZE, CIRCUIT NUMBERING, CIRCUIT ROUTING, EQUIPMENT LOCATIONS AND ELECTRI-CAL WORK AS ACTUALLY INSTALLED SUBMIT "AS-BUILTS" ALONG WITH THREE (3) COPIES OF ALL APPROPRIATE MAINTENANCE AND OPERATIONS MANUALS TO THE OWNER.
- E. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION.
- F. FURNISH 480 VOLT DANGER SIGNS AT ALL 480/277 VOLT EQUIPMENT PER CODE.
- G. AT COMPLETION OF ELECTRICAL WORK ALL "IN SLAB" TRENCH DUCT COVERS SHALL BE REPLACED.
- COORDINATE WITH BUILDING MANAGER FOR ANY SERVICE INTERRUPTION OF Н. EXISTING LIGHTING OR POWER PANELS AND GIVE NOTICE TWO (2) DAYS PRIOR TO ANY WORK. ELECTRICAL CONTRACTOR TO DO WORK ON PREMIUM TIME SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.
- I. ALL PANELBOARD COVERS SHALL BE REPLACED AT THE COMPLETION OF EACH DAYS WORK.
- J. MAINTAIN GROUND CONTINUITY THROUGHOUT ALL SYSTEMS.
- K. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ANY EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW INSTALLATION. ALL EXPOSED ABANDONED CONDUIT AND WIRING SHALL BE REMOVED. THE CONTRACTOR SHALL CUT BACK ALL ABANDONED CONDUIT AND WIRING TO FLOOR, WALL, OR HUNG CEILING. THIS WORK MAY NOT BE REPRESENTED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL.
- L. INSULATION RESISTANCE TESTS SHALL BE PERFORMED ON ALL EXISTING CONDUCTORS AND EQUIPMENT DESIGNATED TO REMAIN. MEASURED INSULATION RESISTANCE SHALL CONFORM TO REQUIREMENTS OF THE LATEST EDITION OF THE CODE.
- M. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF CIRCUITRY FOR EXISTING EQUIPMENT AND DEVICES THAT ARE TO REMAIN. WHERE OUTLETS ARE REMOVED AND ARE NOT AT THE CIRCUIT DEAD END, EXTEND CIRCUITRY AS REQUIRED TO MAINTAIN INTEGRITY OF ORIGINAL CIRCUIT. WHERE A WIRING DEVICE IS TO BE REMOVED AND THAT WALL IS TO REMAIN THE ELECTRICAL CONTRACTOR SHALL REMOVE BRANCH CIRCUITRY FROM ITS SOURCE AND FILL-IN OUTLET BOX. BLANK PLATES WILL NOT BE PERMITTED.
- N. PRIOR TO ANY CHASING, CHOPPING, OR CORE DRILLING IS PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE WITH ALL APPROPRIATE TRADES TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING.
- 3.2 SHOP DRAWINGS
 - A. SUBMIT SIX (6) SETS OF SHOP DRAWINGS FOR THE FOLLOWING DEVICES.
 - 2. LIGHTING FIXTURES.

3.3 IDENTIFICATION OF EQUIPMENT

- A. ALL PANELBOARDS, CONTROL PANELS, AND CABINETS SPECIFIED HEREIN SHALL BE CLEARLY IDENTIFIED WITH THE EQUIPMENT DESIGNATION. VOLTAGE AND AMPERE RATING, EQUIPMENT SERVED AND ORIGIN OF THE INCOMING FEED. CONTROL PANELS SHALL BE IDENTIFIED WITH SYSTEM NAME. IDENTIFICATION SHALL BE BY WHITE ON BLACK PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERING ATTACHED BY SCREWS.
- B. JUNCTION BOXES, SPLICE BOXES, ETC., SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS. FOR CIRCUITS CONTAINED THEREIN. FACEPLATE OF SWITCHES FOR EQUIPMENT SUCH AS PANTRY EXHAUST FANS, MOTORIZED SCREENS, ETC., SHALL BE IDENTIFIED WITH THE NAME OF THE DEVICE CONTROLLED. IDENTIFICATION SHALL BE BY INDELIBLE MARKER IN CONCEALED LOCATIONS AND ADHESIVE ('P' TOUCH TYPE) LABELS IN EXPOSED LOCATIONS. EMERGENCY DEVICES SHALL BE IDENTIFIED IN RED AND UPS DEVICES IN BLUE.
- C. EMPTY CONDUITS SHALL BE IDENTIFIED WITH TAGS AT BOTH ENDS INDICATING THE LOCATION OF TERMINATION OF THE OPPOSITE END.
- D. FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. APPROVED IDENTIFICATION CARDS SHALL BE FURNISHED ADJACENT TO ALL CONTROL PANELS AND MANUAL STATIONS.

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 2020.01.15
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Appd YYYY.MM.DD _____ File Name: N/A <u>TR TR KF</u> Dwn. Dsgn. Chkd. YYYY.MM.DD

Permit/Seal



Client/Project Logo



Client/Project NEW ROCHELLE

491 5TH AVE,

Title

NEW ROCHELLE, NY 10801

ELECTRICAL SPECIFICATIONS

Scale NONE Drawing No.

1923 BUILDING RENOVATION FLOWER PARK

191506465 Revision

Project No.

MECHANICAL SYMB

	NEW PIPING, DUCTWORK, OR EQUIPMENT
	NEW EQUIPMENT
–	CONTINUATION FOR DUCTWORK OR PIPING
Ð	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK)
\bullet	POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)
<₩>	DRAWING NOTE TAG
$\boldsymbol{\mathbb{A}}$	REVISION SYMBOL
	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT
B	A – SECTION DESIGNATION B – DRAWING NO.
T	THERMOSTAT OR TEMPERATURE SENSOR TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
ТС	TIME CLOCK
$\Big)$	THERMOSTAT/SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE
函	STARTER / DISCONNECT SWITCH
X	STARTER
Ъ	DISCONNECT

D

ORIGINAL SHEET - ARCH D

18X12	18X12	DUCT SIZE (FIRST FIGURE INDICATES	
5 18ø	180	ROUND DUCT DIAMETER	
		SUPPLY DUCT UP	
	×; +	SUPPLY DUCT DOWN	
		RETURN OR EXHAUST DUCT UP	
		RETURN OR EXHAUST DUCT DOWN	
<u>نہ ۔۔۔۔</u>		ACOUSTICAL LINING IN DUCT	
Ĭ	Å	TRANSITION FROM RECTANGULAR TO	
S-AD-S		ACCESS DOOR IN DUCT	
⊊ — ► R		SLOPING RISE IN DUCT IN DIRECTIO	
• D		SLOPING DROP IN DUCT IN DIRECTI	
<u>بر</u>		MITERED ELBOW WITH TURNING VAN	
		MITERED ELDOW WITH TORNING VAN	
Ĵ	ъ ЪĴ	RADIUS ELBOW (INNER RADIUS = W	
<u>بر</u>	R	DUCT SPLIT	
ᢣ᠊ᡪ᠆ᡃ		90° BRANCH TAP (USE 45° BOOT, 0	
L	,	BRANCH SERVING À SINGLE DIFFUS	
<u>بک</u>		45° BRANCH TAP	
, T	一乃	SPLIT (SUPPLY) OR CONVERGENCE	
Ţ	ъ́Д	RADIUS ELBOW TYPE	
Ţ		SPLIT (SUPPLY) OR CONVERGENCE MITERED ELBOW TYPE WITH TURNING	
Ĺ Ĵ		MITERED ELBOW TYPE WITH TURNING	
۲		SPLIT (SUPPLY) OR CONVERGENCE BULLHEAD TYPE	
۲ ۲		OFFSET (WITH RADIUS ELBOWS)	
, 		SUPPLY REGISTER	
		JUIT LI NEUISTER	
┡╾┥ ╺╶ ╲╴		RETURN OR EXHAUST REGISTER	
۶ ل_VD		VOLUME DAMPER	
FXC SS	FXC F	FLEXIBLE CONNECTION	
~~~~		FLEXIBLE DUCT	
J T K		BRANCH TAKEOFF TO CEILING DIFFU	
	M		
	SUPPLY CEILIN	IG DIFFUSER (4–WAY BLOW)	
CD-B(500)	DIFFUSER TYPE	E AND CFM (CUBIC FEET PER MINUTE	
	RETURN CEILIN	G GRILLE OR REGISTER	
- <b>L</b> -►	DOOR LOUVER		
<b>U_</b> ►	UNDERCUT DOC	DR	
H C	CC=	HEATING COIL COOLING COIL COIL =PREHEAT COIL	
		LES ON BOTH SIDES OF WALL/PARTI	
# <u>⊢</u> SQ.FT	SIZE		
		NING IN WALL/PARTITION AND SQ. FT	
	OUTLET)	LU INCINE EXHAUST FAIL (WITH FLEX	

BOLS -	DUCT	WORK

(FIRST FIGURE INDICATES HORIZONTAL SIZE) DIAMETER ΓUΡ T DOWN EXHAUST DUCT UP

S-RS-S REFRIGERANT SUCTION

LINING IN DUCT FROM RECTANGULAR TO ROUND OR OVAL DUCT OR IN DUCT SE IN DUCT IN DIRECTION OF ARROW OP IN DUCT IN DIRECTION OF ARROW BOW WITH TURNING VANES OW (INNER RADIUS = WIDTH)

TAP (USE 45° BOOT, OR CONICAL TAP FOR RVING A SINGLE DIFFUSER/REGISTER ONLY)

PLY) OR CONVERGENCE (RETURN/EXHAUST) BOW TYPE

PLY) OR CONVERGENCE (RETURN/EXHAUST) BOW TYPE WITH TURNING VANES

PLY) OR CONVERGENCE (RETURN/EXHAUST) TYPE

KEOFF TO CEILING DIFFUSER/REGISTER

CUBIC FEET PER MINUTE). REFER TO SCHEDULE.

SIDES OF WALL/PARTITION AND SQ. FT. OPENING

_/PARTITION AND SQ. FT. OPENING SIZE

(HAUST FAN (WITH FLEX CONNECTION AT INLET &

MECHANICAL SYMBOL LIST - PIPING					
		DIRECTION OF FLOW IN PIPE			
<b></b>		PITCH PIPE DOWN IN DIRECTION OF ARROW			
<b>ب</b>		ELBOW TURNED UP			
<b></b>		ELBOW TURNED DOWN			
		POTTOM DIDE CONNECTION			

<b>د</b> ے		ELBOW TURNED DOWN		
<del>نے ڈر</del>		BOTTOM PIPE CONNECTION		
<u>بالمجمعة المجمعة المحمة المحم</u>		TOP PIPE CONNECTION		
<del>د اق</del> ا ح	€]∳[]>	BALL VALVE		
<b>ب</b>		GATE VALVE		
<b>، س</b> حد		GLOBE VALVE		
		AUTOMATIC THREE-WAY CONTROL VALVE		
<u>ہے</u>		AUTOMATIC TWO-WAY CONTROL VALVE		
<b>، ک</b> م	I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K I K K I K K K K K K K K K K K K K	PRESSURE REDUCING VALVE		
<u>ب الم</u>	<u></u>	PIPE GUIDE		
<u>کار اسع</u>	€ <b>1</b> ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	UNION		
<del>ن</del> ے		CAPPED PIPE		
×++++>		"Y" TYPE STRAINER WITH BLOW DOWN VALVE		
	PIPE SLEEVE			
	CONDENSATE PUMP (SEE SCHEDULES FOR TYPE)			
۶	CONDENSATE DRAIN LINE (GRAVITY)			
۶۶۶	PUMPED DRAIN	LINE		
\$RD\$	REFRIGERANT [	DISCHARGE		
\$RL\$	REFRIGERANT L	IQUID		
1				

NEW YORK STATE CODES & STANDARDS	

٠	2015	INTERNATIONAL	BUILDING CODE
•	2015	INTERNATIONAL	FIRE CODE
٠	2015	INTERNATIONAL	PLUMBING CODE
•	2015	INTERNATIONAL	MECHANICAL CODE

•	2015	INTE	RNATIONAL	FUEL	GAS	CODE
•	2017	NYS	UNIFORM	CODE	SUPF	PLEMENT
		_		/ .		

LOCAL FIRE DEPARTMENT/FIRE MARSHAL
ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION

# NEW YORK STATE ENERGY CODES

- 2015 INTERNATIONAL ENERGY CONSERVATION CODE • 2013 ASHRAE 90.1
- 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CODE (REVISED AUGUST 2016)

# LOCAL CODES

NEW ROCHELLE MUNICIPAL CODE

# REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

•	2013 NPFA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
•	2013 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
•	2013 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
•	2014 NFPA 70 – NATIONAL ELECTRICAL CODE
٠	2013 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

# **PROFESSIONAL STATEMENT**

TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE.

MECHANICAL DRAWING LIST					
SHEET NUMBER	SHEET TITLE				
M-001	MECHANICAL COVER PAGE				
M-002	MECHANICAL GENERAL NOTES				
MD-101	MECHANICAL GROUND & FIRST FLOOR DEMOLITION PLANS				
M-101	MECHANICAL GROUND & FIRST FLOOR PLANS				
M-201	MECHANICAL DETAILS				
M-301	MECHANICAL SCHEDULES				
M-401	MECHANICAL SPECIFICATIONS				
M-402	MECHANICAL SPECIFICATIONS				
M-403	MECHANICAL SPECIFICATIONS				
M-404	MECHANICAL SPECIFICATIONS				

# MECHANICAL ABBREVIATIONS

AD

AHU

ATC

B(500)

BTU

CFM

CG

CP

CR

CV

Е

EAT

EF

EG

EWT

FXC

FLA

GPM

HP

ΗZ

KW

LAT

MBH

MCA

NIC

NK

NTS

OAI

PH

PSI

RF

ΤХ

TYP

VN

V

VD

ACCESS DOOR		
AIR HANDLING UNIT		
AUTOMATIC TEMPERATURE CONTROL		
DIFFUSER TYPE - REFER TO SCHEDULE		
BRITISH THERMAL UNIT		
CUBIC FEET PER MINUTE		
CEILING GRILLE		
CONDENSATE PUMP		
CEILING REGISTER		
CONSTANT VOLUME		
EXISTING		
ENTERING AIR TEMPERATURE		
EXHAUST FAN		
EXHAUST GRILLE		
ENTER WATER TEMPERATURE		
FLEXIBLE CONNECTION		
FULL LOAD AMPS		
GALLONS PER MINUTE		
HEAT PUMP		
HERTZ		
KILOWATT		
LEAVING AIR TEMPERATURE		
THOUSAND BTU PER HOUR		
MINIMUM CIRCUIT AMPS		
NOT IN CONTRACT		
NECK SIZE		
NOT TO SCALE		
OUTSIDE AIR INTAKE		
PHASE		
POUND PER SQUARE INCH		
RETURN FAN		
TOILET EXHAUST		
TYPICAL		
VENT		
VOLTS		
VOLUME DAMPER		

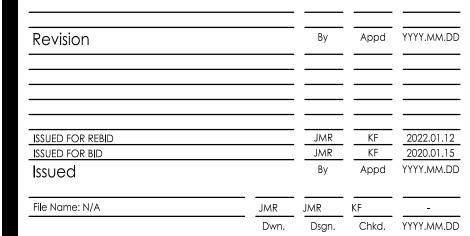


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 2020.01.15

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Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

MECHANICAL COVER PAGE

Project No. 191506465

Revision

Scale NONE



Drawing No.

		MECHANICAL GENERAL NOTES	MECHANICAL GENER
	1.	THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE	SEPARATE BALANCING VALVE FOR A ARE NOT SHOWN IN CONTRACT DO FULL PORT AND PRESSURE RATED VALVE SHALL BE SIMILAR TO B&G VALVE, UNLESS OTHERWISE NOTED. 21. THE MECHANICAL CONTRACTOR SHA
	2	SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK, AND PIPING FABRICATION SHOP DRAWING APPROVAL. THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED SO AS TO	INSTALLING SECONDARY DRAIN PAN EQUIPMENT REGARDLESS IF DRAIN DOCUMENTS. REFER TO DETAIL FOF DETAIL IS SHOWN, CONTRACTOR MU PROCESS DURING BIDDING.
	Ζ.	REQUIRE THE MOST SUBSTANTIAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. IN THE CASE OF A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.	22. THE MECHANICAL CONTRACTOR SHA INSTALLING CONDENSATE PIPING FO REGARDLESS IF CONDENSATE PIPIN ALL CONDENSATE PIPING SHALL BE OR JANITORS CLOSET. IF NO COND MUST REQUEST CONDENSATE PIPIN BIDDING.
	3.	ANY MATERIAL, WORK, OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO	<ul> <li>23. GENERAL NOTES, SYMBOLS, ABBREY</li> <li>ALL HVAC/MECHANICAL DRAWINGS.</li> <li>24. RELOCATE EXISTING WORK THAT IN</li> </ul>
	4.	THE OWNER. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED, OUTER DUCT DIMENSIONS SHALL BE	25. COORDINATE THIS WORK WITH THAT 26. DIMENSIONS SHOWN ON PLAN ARE
5	5.	INCREASED TO ACCOMMODATE LINING. WHERE WORK IS INDICATED TO BE BY OTHER CONTRACTORS, FOR EXAMPLE:	ELEVATION ARE VERTICAL, EXCEPT ARE MEASURED PERPENDICULAR TO
		"BY GENERAL CONSTRUCTION CONTRACTOR", THIS WORK IS NOT IN THE HVAC/MECHANICAL CONTRACT. EACH CONTRACTOR WILL BE RESPONSIBLE FOR CLOSE COORDINATION WITH OTHER CONTRACTORS' WORK.	27. PRODUCT INSTALLATION SHALL ADH 28. PROVIDE ACCESS PANELS IN DUCT RECOMMENDATIONS FOR ALL CONC
		REFER TO APPROPRIATE SPECIFICATION SECTION FOR EQUIPMENT SELECTION PARAMETERS WHERE DRAWINGS DO NOT CONTAIN EQUIPMENT SCHEDULES.	SERVICE, INCLUDING AIR CONDITION DAMPERS, COMBINATION FIRE/SMOM DETECTORS. COORDINATE WITH GE
1.	•	FOR AIR SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BRANCH VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTWORK, REGARDLESS IF VOLUME DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL VOLUME DAMPERS	SIZES OF ACCESS DOORS IN GENE 29. PROVIDE HANGERS, INSERTS, ANCH REQUIRED TO SUPPORT DUCTWORK
		SHALL BE ADJUSTABLE HANDLE TYPE FOR LAY-IN ACCESSIBLE CEILING OR CABLE OPERATED FOR CONCEALED TYPE OF CEILING. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OR	30. SCHEDULE WORK OF THIS SECTION OPERATIONS IN THE FACILITY.
8.		OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER. INSTALL THERMOSTATS, FAN SPEED CONTROLLERS, AND OTHER ROOM OCCUPANT ADJUSTABLE CONTROL DEVICES 4'-0" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT. COORDINATE EXACT LOCATIONS WITH	31. COORDINATE ALL ROOF PENETRATIC AND WITH FLASHING REQUIREMENTS LOCATIONS WITH THE OWNER/LAND TO STARTING WORK AND VERIFY CO THE ROOF.
0		THE ARCHITECTURAL PLANS. DEVICE COLORS TO BE SELECTED BY THE ARCHITECT. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.	32. RUN DUCTS AND PIPING CONCEALE CLEAR OF CEILING INSERTS.
l	l	AC UNITS SHOWN ON DRAWINGS ARE SCHEMATIC. SEE AC UNIT DETAIL ON DETAIL SHEET FOR ACTUAL TYPICAL ARRANGEMENT REQUIRED. WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS,	33. PROVIDE CLEARANCE IN FRONT OF AND EQUIPMENT MANUFACTURERS'
10.		COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.	34. ALL MOTOR STARTERS FOR HVAC E MECHANICAL CONTRACTOR AND INS CONTRACTOR, UNLESS OTHERWISE
11.		SOME PRESSURE AND TEMPERATURE GAUGES ARE SCHEMATICALLY SHOWN ON THE PLANS AND DETAILS. REFER TO THE SPECIFICATIONS FOR EXACT TYPES AND LOCATIONS.	35. ALL DISCONNECT SWITCHES FOR H INSTALLED, AND WIRED BY THE ELE HVAC EQUIPMENT OR OTHERWISE N
12.		PROVIDE UL 555 COMPLIANT FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE	<ul><li>36. USE FLAT TRANSVERSE SEAM FOR DICTATES.</li><li>37. BRANCH DUCTS TO INDIVIDUAL DIFF</li></ul>
		NOT SHOWN IN CONTRACT DOCUMENTS. PROVIDE 1–1/2 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 2 HOUR OR LESS RATING. PROVIDE 3 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 3 HOUR OR MORE RATING. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES	38. ALL DUCTWORK AND PIPING SHALL STRUCTURAL MEMBERS UNLESS OT BY FIELD CONDITIONS.
13.		OF ACCESS DOORS IN GENERAL CONSTRUCTION. PROVIDE COMBINATION FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE AND SMOKE RATED WALLS AND FLOORS, REGARDLESS IF FIRE	39. DO NOT INSTALL DUCTWORK OR PI THE WEB OF STRUCTURAL MEMBER DUCTWORK AND PIPING TO CROSS
		DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED WITH AN END SWITCH FOR STATUS SIGNAL TO THE BMS AND FIRE SMOKE CONTROL PANEL. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN	40. BRANCH DUCTS TO INDIVIDUAL DIFF WITH VOLUME DAMPERS, WHETHER ON PLAN.
1	4.	GENERAL CONSTRUCTION. PROVIDE FIRESTOPPING FOR ALL DUCT AND PIPE PENETRATIONS THROUGH FIRE	41. VOLUME DAMPERS LOCATED ABOVE OPERATED TYPE, WITH CABLE OPER AND CLEARLY LABELED FOR DIFFUS
15	•	RATED PARTITIONS. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING THERMOSTATS FOR ANY EQUIPMENT THAT REQUIRES CONTROL, SUCH	42. UNLESS OTHERWISE NOTED, ALL EX SHALL BE SPIRAL ROUND OR FLAT PERFORATED INNER WALL, AND 1
		AS VAV BOXES, FCU, FANS, HEATERS, FINNED TUBE RADIATION, RTU'S, ETC., REGARDLESS IF THERMOSTATS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL THERMOSTATS SHALL BE DIRECT DIGITAL PROGRAMMABLE TYPE, UNLESS OTHERWISE NOTED. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, FAN UNIT, VAV, FPB, ENTRANCE HEATER, BASEBOARD RADIATION, ETC. THERMOSTAT	43. CONDENSATE DRAIN (CD) AND CON SHALL BE RIGID COPPER, TYPE L, OR SOLDERED, WITH 1" INSULATION
1	6.	LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECT AND ENGINEER. ALL DUCTWORK AND PIPING REQUIRING FIRE RATING AND WHERE SHOWN ON PLANS SHALL BE PROVIDED WITH A 2-HOUR FIRE RATED ENCLOSURE	44. NEW AND EXISTING PERMANENT HV CONTRACTORS DURING CONSTRUCT VENTILATION, ONLY UNDER THE FO 44.1. CONTRACTOR TO PROVIDE
17	7.	(PROVIDED UNDER ANOTHER SECTION OF THE SPECIFICATIONS). BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES,	CONSTRUCTION, WHICH SHA AFTER GENERAL CONSTRUC 44.2. CONTRACTOR TO PROVIDE I REGISTERS, GRILLES, AND
		AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN	44.3. THE WARRANTY PERIOD FO CONSTRUCTION IS COMPLET WARRANTY PERIOD BEGINS
		ON THE DRAWINGS. PROVIDE ALL REQUIRED PIPE TAPPING FOR WATER TREATMENT SYSTEMS.	CONSTRUCTION, THE CONTR COSTS ASSOCIATED WITH EX FULL PERIOD OF COVERAGE 44.4. IF NEW PERMANENT HVAC
		FOR WATER SYSTEMS: THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BALL TYPE SHUT-OFF VALVES AND	44.4. IF NEW PERMANENT HVAC PROJECT WILL NOT BE OPE CONSTRUCTION, ALL OPEN CAPPED AIRTIGHT WITH WIT

# NERAL NOTES (CONTINUED)

FOR ALL BRANCH PIPING REGARDLESS IF VALVES DOCUMENTS. ALL SHUT-OFF VALVES SHALL BE ATED FOR SYSTEM PRESSURE. THE BALANCING B&G CIRCUIT SETTER PLUS CALIBRATED BALANCE

SHALL INCLUDE IN BID PRICING SUPPLYING AND PANS FOR ALL AIR CONDITIONING CEILING HUNG RAIN PANS ARE NOT SHOWN IN CONTRACT FOR INSTALLATION OF DRAIN PANS. IF NO OR MUST REQUEST DRAIN PAN DETAIL THRU RFI

SHALL INCLUDE IN BID PRICING SUPPLYING AND NG FOR ALL COOLING TYPE EQUIPMENT PIPING IS NOT SHOWN IN CONTRACT DOCUMENTS. LL BE INSULATED AND ROUTED TO NEAREST DRAIN CONDENSATE PIPING IS SHOWN, CONTRACTOR PIPING ROUTING THRU RFI PROCESS DURING

BBREVIATIONS, AND DETAILS ARE APPLICABLE TO

AT INTERFERES WITH WORK OF THIS CONTRACT. THAT OF OTHER TRADES.

ARE HORIZONTAL. DIMENSIONS SHOWN IN CEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS AR TO FLANGE.

ADHERE TO MANUFACTURERS' RECOMMENDATIONS.

DUCTWORK IN ACCORDANCE WITH MANUFACTURERS' CONCEALED EQUIPMENT THAT REQUIRES PERIODIC DITIONING UNITS, FANS, CONDENSATE PUMPS, FIRE SMOKE DAMPERS, AND DUCT MOUNTED SMOKE TH GENERAL CONTRACTOR FOR LOCATIONS AND GENERAL CONSTRUCTION.

ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS WORK, PIPING AND EQUIPMENT FROM STRUCTURE.

CTION TO AVOID INTERFERING WITH EXISTING

RATIONS WITH THE WORK OF OTHER SECTIONS MENTS. COORDINATE ALL ROOF PENETRATION LANDLORD. NOTIFY THE OWNER/LANDLORD PRIOR IFY COMPLIANCE WITH BOND AND WARRANTY OF

CEALED, UNLESS OTHERWISE SPECIFIED, AND

OF ALL ELECTRIC CONTROL PANELS PER N.E.C. ERS' REQUIREMENTS.

AC EQUIPMENT SHALL BE FURNISHED BY THE INSTALLED/WIRED BY THE ELECTRICAL WISE NOTED.

OR HVAC EQUIPMENT SHALL BE FURNISHED. E ELECTRICAL CONTRACTOR, UNLESS INTEGRAL TO ISE NOTED.

FOR DUCTWORK WHERE SPACE AVAILABLE

DIFFUSERS AND REGISTERS SHALL BE THE SAME EGISTER NECK, UNLESS OTHERWISE NOTED.

SHALL BE INSTALLED TIGHT TO BOTTOM OF SS OTHERWISE NOTED OR ABSOLUTELY REQUIRED

OR PIPING DIRECTLY UNDER AND PARALLEL TO MBERS. OFFSET IN ORDER TO ALLOW FUTURE ROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

DIFFUSERS AND REGISTERS SHALL BE PROVIDED THER OR NOT THE VOLUME DAMPERS ARE SHOWN

ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS DIFFUSER OR REGISTER SERVED.

LL EXPOSED DUCTWORK IN FINISHED SPACES FLAT OVAL TYPE, WITH SOLID OUTER WALL, 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING.

CONDENSATE PUMP DISCHARGE (PD) PIPING PE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED LATION, UNLESS OTHERWISE NOTED ON DRAWINGS.

NT HVAC AIR EQUIPMENT MAY BE USED BY RUCTION FOR TEMPORARY HEATING, COOLING, AND E FOLLOWING CONDITIONS: VIDE TEMPORARY FILTERS IN EACH UNIT DURING

SHALL BE REPLACED WITH NEW CLEAN FILTERS TRUCTION IS COMPLETED. VIDE FILTER FABRIC AT ALL RETURN AND EXHAUST

AND OPENINGS DURING CONSTRUCTION. FOR ALL EQUIPMENT SHALL NOT BEGIN UNTIL MPLETED. IF THE EQUIPMENT MANUFACTURER'S

GINS WHILE THE UNIT USED DURING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TH EXTENDING THE WARRANTY TO PROVIDE THE ERAGE TO THE OWNER.

IVAC AIR EQUIPMENT INSTALLED UNDER THIS OPERATED BY THE CONTRACTOR DURING PEN OR INCOMPLETE DUCTWORK SHALL BE WITH HEAVY POLYETHYLENE PLASTIC. AFTER

# MECHANICAL GENERAL NOTES (CONTINUED)

THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS.

44.5. IF THE ABOVE CONDITIONS ARE NOT MET, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY HEATING. COOLING, AND VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, PIPING, AND POWER AT HIS OWN EXPENSE.

- 44.6. IF PERMANENT HVAC EQUIPMENT IS USED DURING CONSTRUCTION BUT NOT PROPERLY PROTECTED AS DESCRIBED ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DUST AND DEBRIS FROM DUCTWORK AND EQUIPMENT, AS WELL AS ANY NECESSARY REPAIR OR REPLACEMENT OF DAMAGED EQUIPMENT AT HIS OWN EXPENSE. 44.7. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL
- DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS.

- OWNER/ENGINEER.

- BY THE OWNER.

- REQUIREMENTS.

# MECHANICAL DEMOLITION NOTES

DEMOLITION NOTES, SYMBOL LIST, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.

2. ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED, AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.

3. AFTER REMOVING PIPE THROUGH THE FLOOR SLABS, PACK OPENING WITH APPROVED FIRE-RATED PACKING.

4. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE

5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.

6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR, OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.

7. THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS. ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.

8. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REAVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

9. PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED, AND RECONNECTED.

10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE, SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.

11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED

12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.

13. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO A SHUTDOWN.

14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL

15. WHERE THE DEMOLITION OF EXISTING PNEUMATIC CONTROL EQUIPMENT. THERMOSTATS, OR TUBING IS INDICATED IN THE PLANS, THE CONTRACTOR SHALL CAP THE ENDS OF ALL EXISTING TO REMAIN PNEUMATIC LINES AIRTIGHT UNLESS OTHERWISE NOTED. IF ADDITIONAL PNEUMATIC LINES OR DEVICES ARE DISCOVERED BY THE CONTRACTOR INSIDE WALLS OR ABOVE CEILINGS DURING DEMOLITION, THE CONTRACTOR SHALL INFORM THE DESIGN TEAM PRIOR TO REMOVAL OF THESE LINES OR DEVICES.

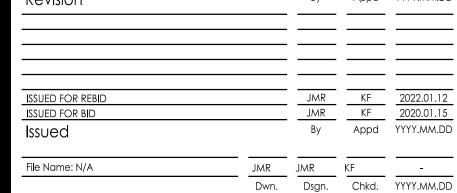


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Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

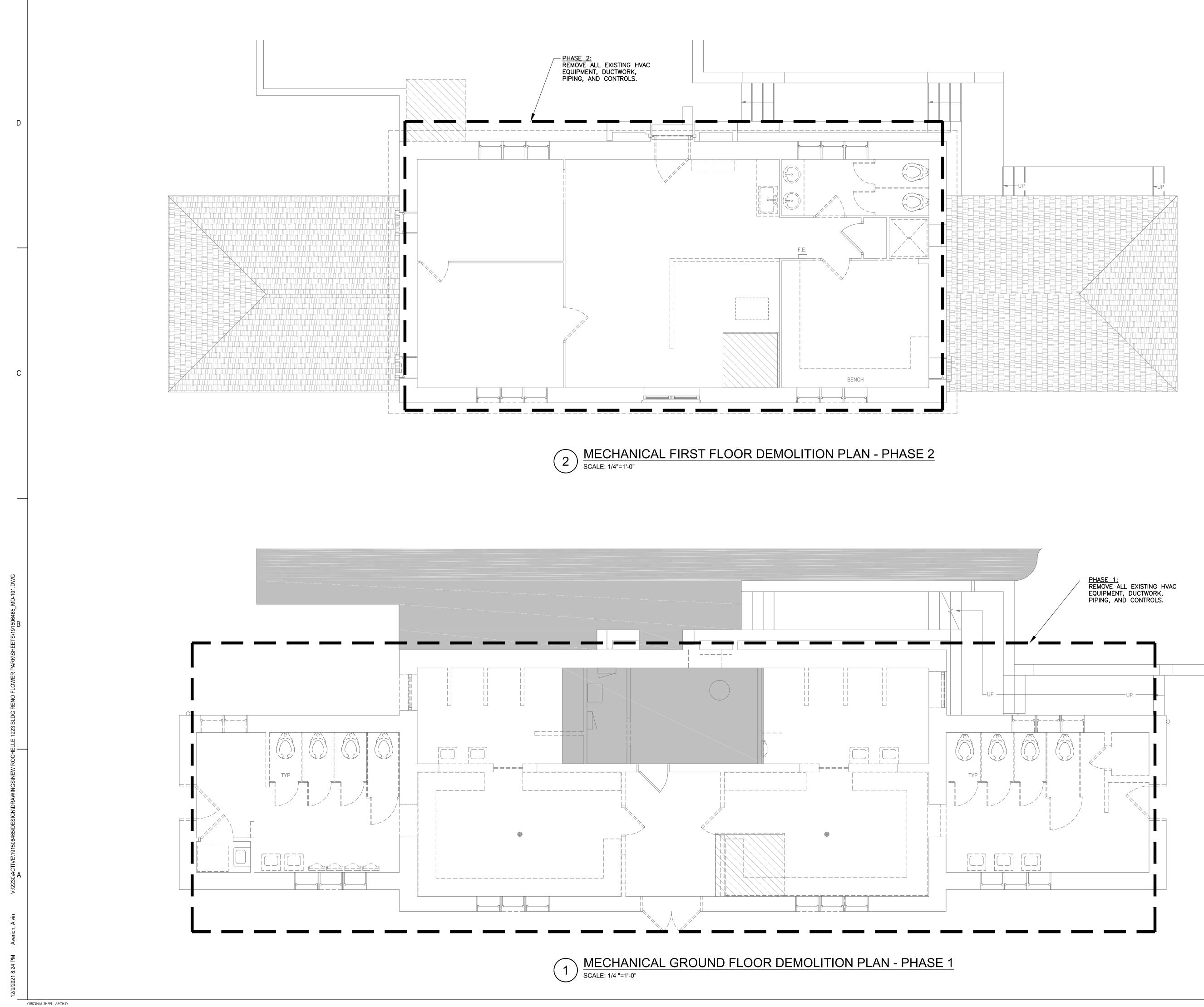
MECHANICAL GENERAL NOTES

Project No. 191506465

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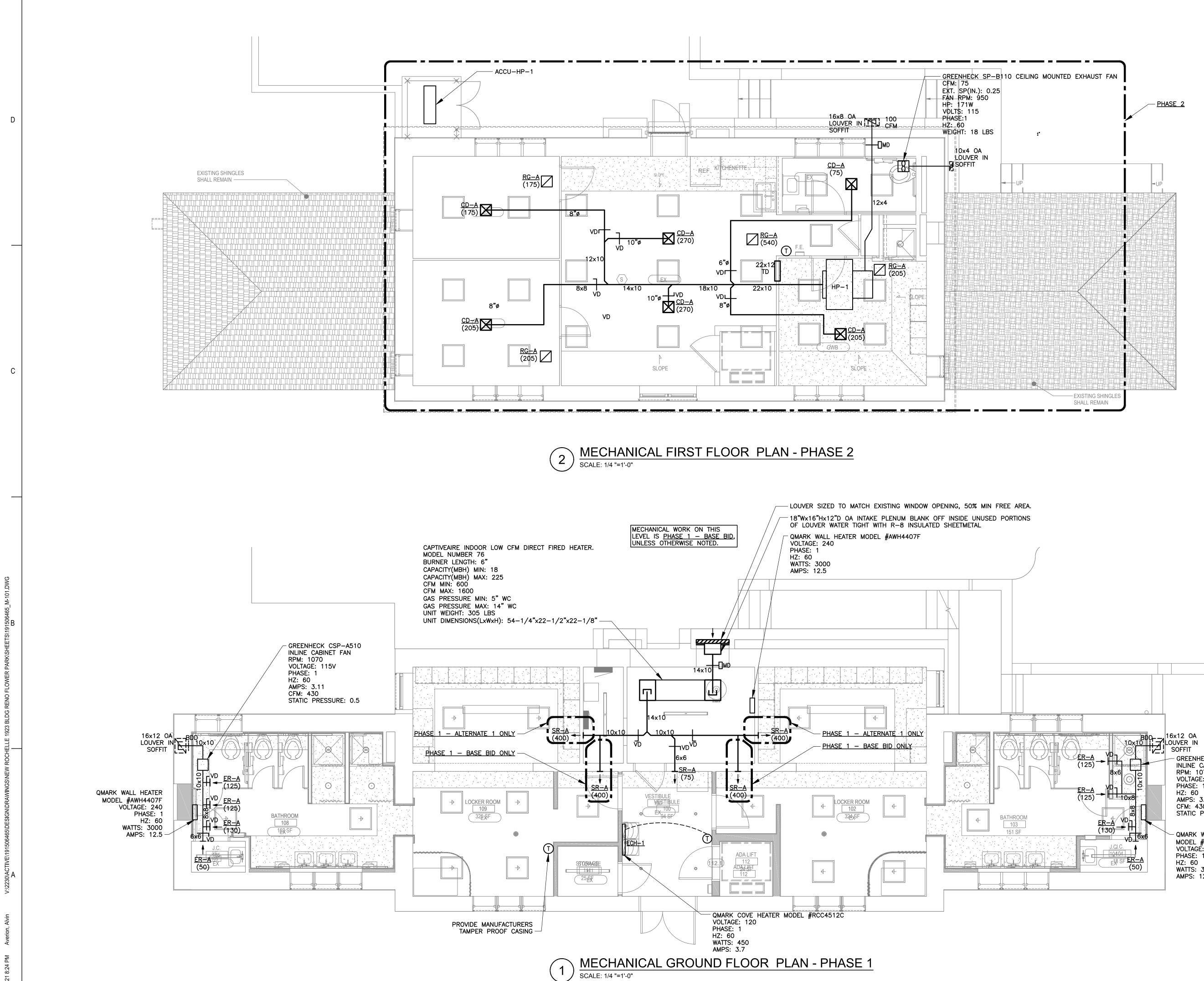
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191506465

MECHANICAL GROUND & FIRST

FLOOR DEMOLITION PLANS

NEW ROCHELLE, NY 10801



 GREENHECK CSP-A510
 INLINE CABINET FAN
 RPM: 1070 VOLTAGE: 115V PHASE: 1 HZ: 60 AMPS: 3.11 CFM: 430 STATIC PRESSURE: 0.5 – QMARK WALL HEATER MODEL #AWH4407F VOLTAGE: 240

PHASE: 1 HZ: 60 WATTS: 3000 AMPS: 12.5 Stantec

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1923 BUILDING RENOVATION FLOWER PARK

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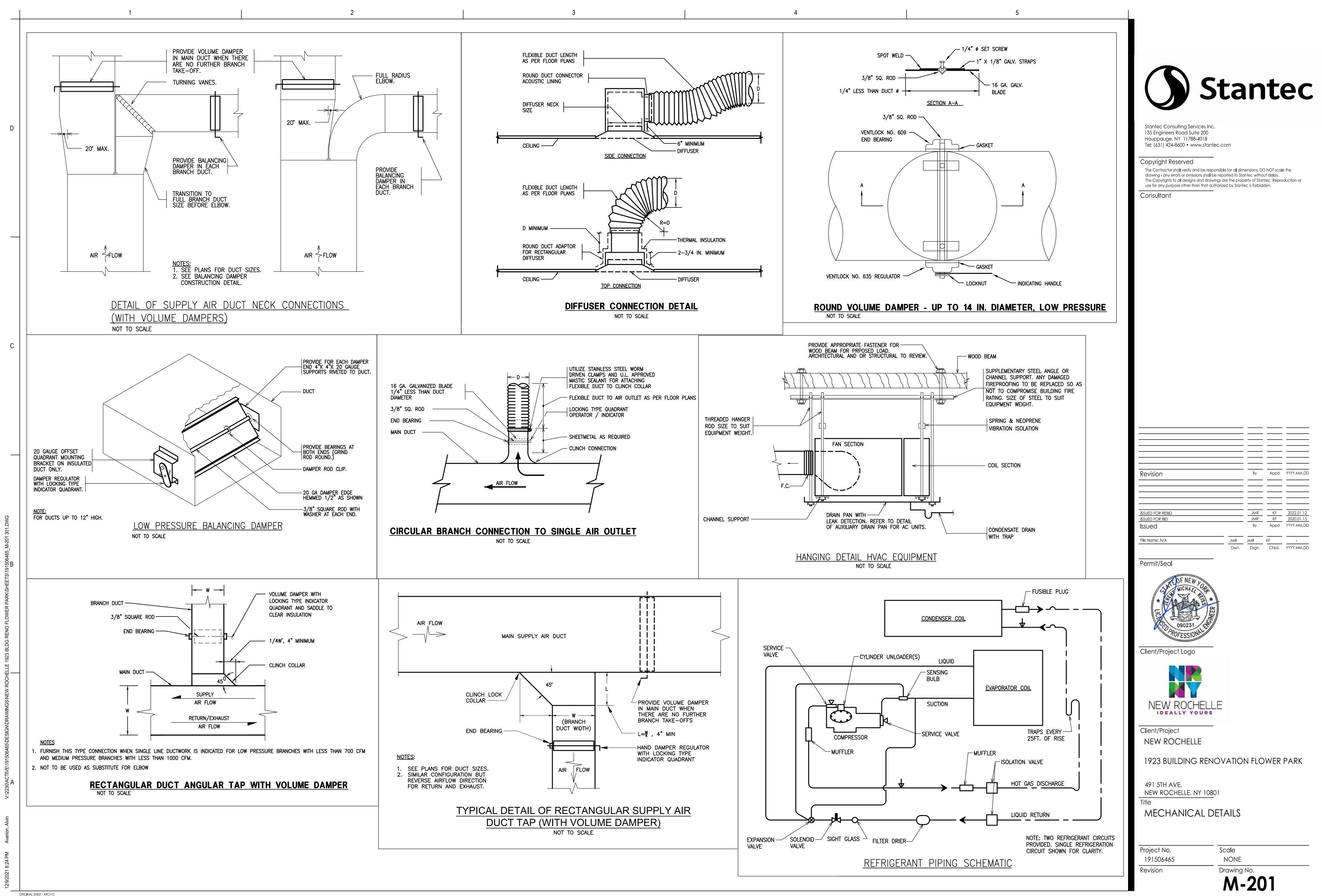
MECHANICAL GROUND & FIRST FLOOR PLANS

Project No. 191506465

Scale AS NOTED

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Drawing No.



DX SPLIT HEAT PUMP OUTDOOR AIR-COOLED CONDENSING UNIT SCHEDULE																																
ESIGNATION CONNECTE	D CONFIGURATION			AIR CO	NDITIONING	G DATA					HEAT		ATA			REFRI	G NO. O	F NO. O		NO.C	F	ELEC	TRICAL	DATA		DIN	IENSIONS	WEIGH1	PIPE	MANUFACTURER	MODEL	REMARKS
INDOOR		NOMINAL	NOMINAL	HIGH	LOW	SEER	DESIGN	COOLING	NOMINAL	HIGH	LOW	HSPF	DESIGN	DESIGN	HEATING		Е СОМЕ	P. REFRI	6. CONTROL	FAN	S	ELE	EC. FEE	D #1		HEIGHT	NIDTH LENG	TH (LBS)	CONNECTION			
UNIT(S)		COOLING	COOLING	AMBIENT	AMBIENT	AT	AMBIENT	CAPACITY	HEATING	AMBIENT	AMBIENT	AT	AMBIENT	TAMBIENT	CAPACITY			СКТЗ			VOLTS P	H Hz M		P DISC.	EMER.	(IN)	(IN) OF	2	SIZES			
		CAPACITY	CAPACITY	LIMIT FOR		AHRI	TEMP.	AT DESIGN	CAPACITY	LIMIT FOR	LIMIT FOR	AHRI	TEMP.	TEMP.	AT DESIGN									BY E.C.	PWR.		DEP	гн	REFRIG. REFRIC			
		(TONS)	(MBH)	COOLING	COOLING	COND.	DB (°F)	CONDITIONS	(MBH)	HEATING	HEATING	COND.	DB (°F)	WB (°F)	CONDITION	s								OR	(Y/N)		(IN	)	SUCTION LIQUI	)		
				DB (°F)	DB (°F)			(MBH)		WB (°F)	WB (°F)				(MBH)									MANUF	.				(IN) (IN)			
ACCU-HP1 HP-1	HORIZ. DISCHARGE	3	36	115	0	19.1	95	36	38	59	-4	9.9	0	-0.7	19	R-410	A 1	1	MODULATIN	IG 1	208	I 60 2	25 31	E.C.	N	52.7	41.3 14	214	5/8 3/8	MITSUBISHI	PUZ-A36NKA7-BS	S SEE NOTES BEL

D

С

**1. PROVIDE REFRIGERANT PIPE SIZES AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.** 

2. PROVIDE MANUFACTURER'S LOW AMBIENT COOLING KIT.

DESIGNATION	CONNECTED TO	CONFIGURATION	R				
	CONDENSING						
	UNIT						
	4.00111104		ŀ.				
HP-1	ACCU-HP1	HORIZ. DUCTED CONCEALED					
NOTES:							
1. PROVIDE REI	FRIGERANT PIPE S	SIZES AND ACCESSORIES PER N	١A				
2. PROVIDE THI	2. PROVIDE THE FOLLOWING FACTORY OPTIONS:						

2.1. WALL-MOUNTED CONTROLLER WITH BUILT-IN TEMPERATUR

2.2. FILTER BOX ACCESSORY WITH FACTORY SUPPLIED MERV-8 FILTER.

3. PROVIDE THE FOLLOWING FIELD ACCESSORIES FOR CEILING CONCEALED UNITS: 3.1. GALVANIZED STEEL EXTERNAL DRIP PAN BELOW AC UNIT, EXTENDING 3" BEYOND EQUIPMENT ON ALL SIDES.

3.2. LEAK DETECTOR IN DRIP PAN, HARDWIRED TO SHUT DOWN THE UNIT.

ORIGINAL SHEET - ARCH D

## DY ODI IT HEAT DI MO INDOOD I INIT COHEDI II E

	DX SPLIT HEAT PUMP INDOUR UNIT SCHEDULE																					
REFRIG.	NOMINAL	NOMINAL	NOMINAL	AIR	CONDITION	NING		HEAT P	PUMP	SUPP	LY FAN DA	ТА				ELECTRICAL DATA			FILTERS	MANUFACTURER	MODEL	REMARKS
	COOLING	COOLING	HEATING	DATA	AT DESIGN	CONE	).	DATA	AT	SUPPLY	OUTSIDE	ESP	VOLTS	PH H	z MCA	MOCP	DISC. BY	EMER.				
	CAPACITY	CAPACITY	CAPACITY	TOTAL	SENSIBLE	EAT	EAT	DESIGN	COND.	AIRFLOW	AIRFLOW	(IN WC)					E.C. OR	PWR.				
	(TONS)	(MBH)	(MBH)	COOLING	COOLING	DB	WB	HEATING	EAT DB	(CFM)	(CFM)						MANUF.					
				(MBH)	(MBH)	(°F)	(°F)	(MBH)	(°F)													
R-410A	3	36	38	36	29	80	67	19	65	1,200	100	0.60	208	1 6	0 3.3	POWERED FROM ACCU	E.C.	N	MERV-8	MITUBISHI	PEAD-A36AA7	SEE NOTES BELOW
	ANUFACTURER'S RECOMMENDATIONS.																					
<b>URE SEN</b>	SOR, MITSU	JBISHI TYPE	PAR, HARD	-WIRED, WI	THINFARE		UPAN	CY SENSO	R.													

**REGISTER, GRILLE, AND DIFFUSER SCHEDULE** NOMINAL NECK CFM CONFIGURATION BORDER MATERIAL OF EQUAL DESIGNATION SERVICE TYPE OVERALL SIZE RANGE TYPE CONSTRUCTION GRID II DIMENSION (IN) (IN) 6"DIA 0-100 8"DIA 101-175 PLAQUE-STYLE, 24x24 10"DIA 176-350 CEILING DIFFUSER LAY-IN CD-A SUPPLY STEEL YE 4-WAY THROW 12"DIA 351-550 14"DIA 551-750 LOUVERED FACE, 1/2" BLADE RG-A **CEILING GRILLE** 24x24 24x24 0-2000 LAY-IN STEEL RETURN NO SPACING, 35° FIXED DEFLECTION LOUVERED FACE, LAY-IN OR CEILING/SIDEWALL 6x6 0-100 ER-A EXHAUST RE: PLAN ALUMINUM NC 8x6 101-130 1/2" BLADE REGISTER SURFACE INDIVIDUALLY ADJUSTABLE BLADES, SURFACE RE: PLAN RE: PLAN RE: PLAN 3/4" BLADE SPACING, MOUNTED CEILING/SIDEWALL SR-A SUPPLY STEEL NC REGISTER DOUBLE DEFLECTION NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

2. ALL FINISH COLORS ARE SUBJECT TO APPROVAL BY THE ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.

3. COORDINATE BORDER TYPES WITH ARCHITECTURAL CEILING SPECIFICATIONS.

4. RG-A:

4.1. PROVIDE FACTORY FURNISHED LIGHT SHIELD FOR EACH GRILLE, MATTE BLACK FINISH FOR INTERNAL SURFACES.

5	

1						
LIZING	OPPOSED	FILTER	FINISH	MANUF.	MODEL	REMARKS
IN NECK	BLADE	RACK	COLOR			
	DAMPER					
	IN NECK					
						SEE
'ES	NO	NO	WHITE	TITUS	ΟΜΝΙ	NOTES
						BELOW
						SEE
NO	NO	NO	WHITE	TITUS	355RL	NOTES
	NO	NO	••••		JUSICE	BELOW
NO	NO	NO	WHITE	TITUS	355FL	SEE
					0001 2	NOTES
						SEE
NO	YES	NO	WHITE	TITUS	300RL	NOTES
	•				••••	BELOW
						5220.1

Project No.
191506465
Revision

Scale NONE Drawing No.

MECHANICAL SCHEDULES

NEW ROCHELLE, NY 10801 Title

491 5TH AVE,

1923 BUILDING RENOVATION FLOWER PARK

NEW ROCHELLE

Client/Project

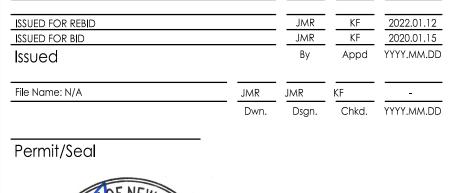
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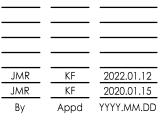
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MECHANICAL SPECIFICATIONS

<u>PART 1 – GENERAL</u>

1.01 GENERAL REQUIREMENTS

- A. INSTALL ALL NEW WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION, MAINTENANCE, AND REPAIR.
- B. CODES, PERMITS AND INSPECTIONS:
- 1. ALL REQUIREMENTS OF THE BUILDING DEPARTMENT, BUILDING MANAGEMENT, AND ALL AUTHORITIES HAVING JURISDICTION, AND ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK, SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.
- 2. THIS CONTRACTOR SHALL OBTAIN ALL EQUIPMENT APPROVALS AS REQUIRED BY STATE AND LOCAL AUTHORITIES. PERMITS SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- C. SITE VERIFICATION:
- 1. PRIOR TO SUBMISSION OF THE BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF THE BID, AND IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.
- D. CONTRACT DOCUMENTS:
- 1. PRIOR TO SUBMISSION OF A FORMAL BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.
- 2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF DIFFUSERS, GRILLES, REGISTERS, THERMOSTATS, SENSORS, SWITCHES AND ANY WALL MOUNTED DEVICES. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.
- 3. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.
- E. GUARANTEE:
- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE MECHANICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION OF ALL SYSTEMS INSTALLED. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.
- 2. THE CONTRACTOR SHALL GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THIS CONTRACTOR.
- 3. THIS CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SYSTEMS UNTIL THE FINAL ACCEPTANCE OF THE WORK.
- 4. ALL AIR CONDITIONING UNIT COMPRESSORS AND REFRIGERATION COMPONENTS SHALL HAVE A 5-YEAR WARRANTY
- F. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AIA DOCUMENT A201, LATEST EDITION, OR AS REQUIRED BY THE ARCHITECT'S DOCUMENTS, AND/OR THE STRUCTURAL ENGINEER'S DOCUMENTS, AS APPLICABLE. ARE PART OF THIS CONTRACT.
- G. DEFINITIONS:
- 1. MECHANICAL CONTRACTOR. "THIS CONTRACTOR" THE PARTY OR PARTIES HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE MECHANICAL WORK AS DESCRIBED HFRFIN.
- 2. "THIS CONTRACT", "THE CONTRACT" THE AGREEMENT COVERING THE WORK TO BE PERFORMED BY THIS CONTRACTOR.
- 3. "APPROVED", "EQUAL", "SATISFACTORY", "ACCEPTED", "ACCEPTABLE", "EQUIVALENT" SUITABLE FOR USE ON THE PROJECT, AS DETERMINED BY THE ENGINEER BASED ON DOCUMENTS PRESENTED FOR SUCH DETERMINATION.
- 4. "THESE SPECIFICATIONS", "THIS SECTION, PART, DIVISION" (OF THE SPECIFICATION) THE DOCUMENT SPECIFYING THE WORK TO BE PERFORMED BY "THIS CONTRACTOR".
- 5. "THE MECHANICAL WORK", "THIS WORK" ALL LABOR MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE INSTALLATION BY THE MECHANICAL CONTRACTOR.
- 6. "ARCHITECT", "ENGINEER", "OWNER'S REPRESENTATIVE" THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.
- 7. "FURNISH" PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK.
- 8. "INSTALL" UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING INSTALLATION AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.
- 9. "PROVIDE" "FURNISH" AND "INSTALL".
- 10. "NEW" MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
- 11. "RELOCATE" MOVE EXISTING EQUIPMENT AND ALL ACCESSORIES AS REQUIRED.
- 12. "REMOVE" DISMANTLE AND CART AWAY FROM SITE INCLUDING ALL RELATED ACCESSORIES. ALL ITEMS SHALL BE LEGALLY DISPOSED OF. ALL OTHER EQUIPMENT AND OPERATIONS IN ANY WAY AFFECTED BY THE REMOVAL IS TO REMAIN IN FULL OPERATION. PROVIDE ALL NECESSARY COMPONENTS TO MAINTAIN SUCH OPERATION.

1.02 SCOPE OF WORK

- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE, SAFE INSTALLATION OF ALL MECHANICAL WORK. THE SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- 1. DEMOLITION AND REMOVAL OF ITEMS AS REQUIRED.
- 2. DUCTWORK AND DUCTWORK ACCESSORIES.
- 3. AIR DISTRIBUTION SYSTEM (AIR OUTLETS, ETC.)
- 4. PIPING AND PIPING ACCESSORIES INCLUDING ALL VALVING.

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5. EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PUMPS, AIR CONDITIONING UNITS, FANS, ETC.

- 6. INSULATION OF PIPING AND DUCTWORK.
- 7. SOUND LINING.
- 8. AUTOMATIC TEMPERATURE CONTROLS.
- 9. TESTING AND BALANCING.
- 10. CUTTING AND PATCHING.
- 11. SHOP DRAWINGS.
- 12. AS-BUILT DRAWINGS.
- 13. OPERATING AND MAINTENANCE MANUALS.
- 14. FULL COORDINATION WITH OTHER TRADES.
- 15. WARRANTY AND GUARANTY.
- 16. PHASING AS REQUIRED BY OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR BUILDING MANAGEMENT.
- 17. PREMIUM TIME FOR WORK TO BE PERFORMED AFTER-HOURS AS REQUIRED BY BUILDING MANAGEMENT AND/OR OWNER.
- 18. FILING AND PERMITS.
- 19. FULL TESTING AND STARTUP OF ALL SYSTEMS.

20. COMMISSIONING.

- B. SECURE CERTIFICATES, PAY ALL FEES AND CHARGES FOR ALL WORK INSTALLED, CERTIFYING COMPLIANCE WITH ALL AUTHORITIES. CONTRACTOR TO COORDINATE WITH OWNER FOR REQUIRED SPECIAL INSPECTIONS AND OBTAIN ALL APPROVALS. DELIVER CERTIFICATES TO OWNER FOR SIGNING BEFORE FILING.
- C. THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED SO AS TO REQUIRE THE MOST SUBSTANTIAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. IN THE CASE OF A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.
- 1.03 COORDINATION WITH BUILDING MANAGEMENT
- A. THIS CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE THE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY THE BUILDING.
- B. THIS CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER FOR REVIEW WITH BID SUBMISSION.
- D. COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS, OR CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) DAYS NOTICE PRIOR TO ANY WORK BEING PERFORMED, WHICHEVER IS THE MORE STRINGENT. CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME, IF SO DIRECTED BY BUILDING OWNER, SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.

## 1.04 SHOP DRAWINGS

- A. SUBMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN COMPLETED. SUBMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL REQUIREMENTS. SHOP DRAWINGS SUBMISSION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- 1. DUCTWORK PROVIDE DUCT SHOP STANDARDS AND LEAKAGE TEST CERTIFICATION, AS REQUIRED, AND 3/8 SCALE DUCT LAYOUT.
- 2. PIPING LAYOUT AND APPURTENANCES PROVIDE PIPING, VALVING, CHEMICAL TREATMENT, SHOP STANDARDS AND 3/8 SCALE PIPING LAYOUT WITH ALL VALVING.
- 3. INSULATION FOR DUCTWORK AND PIPING.
- 4. EQUIPMENT CATALOG CUTS FOR ALL ITEMS TO BE UTILIZED ON PROJECT (FANS, PUMPS, AC UNITS, ETC.).
- 5. AIR OUTLETS (DIFFUSERS, REGISTERS, GRILLES, ETC.).
- 6. AUTOMATIC TEMPERATURE CONTROL DIAGRAMS, DEVICES AND SEQUENCE OF OPERATION.
- 7. CERTIFIED AIR BALANCING REPORT.
- 8. AS-BUILT DRAWINGS AT PROJECT COMPLETION OF THE INSTALLED CONDITION OF WORK.
- B. ALL SHOP DRAWINGS SHALL BE SUBMITTED AS PDF FILES. SPECIFIC JOB REQUIREMENTS MAY BE MORE STRINGENT AND CONTRACTOR IS RESPONSIBLE TO OBTAIN REQUIREMENTS FROM OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR ARCHITECT.
- C. THE CONTRACTOR SHALL INCLUDE IN THE BID SKETCHING TIME FOR ANY REVISIONS REQUIRED DUE TO THE ENGINEER'S REVIEW OF SHOP DRAWINGS FOR EQUIPMENT. DUCTWORK AND PIPING LAYOUTS.

## 1.05 MAINTENANCE MANUALS

- A. SUBMIT FOUR (4) LOOSE-LEAF BOUND OPERATING AND MAINTENANCE MANUALS WITH INDEX AND INDEX TABS. IN ADDITION, SUBMIT FOUR (4) PDF COPIES OF THE COMPLETE MANUALS ON CD'S. INCLUDE THE FOLLOWING:
- 1. OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL SYSTEMS.
- 2. MANUFACTURERS' CATALOG CUTS ON ALL EQUIPMENT.
- 3. AUTOMATIC TEMPERATURE CONTROL SYSTEMS WITH SEQUENCE OF OPERATIONS, CATALOG CUTS OF ALL DEVICES AND POINT-TO-POINT WIRING DIAGRAMS.
- 4. CERTIFIED FINAL AIR AND WATER BALANCING REPORT.
- 5. DUCT AND PIPING AS-BUILT DRAWINGS WITH VALVE CHART AND KEY PLAN DRAWINGS INSERTED IN BINDER.
- 6. ALL ITEMS SUBMITTED FOR REVIEW IN SHOP DRAWING SECTION.

## 1.06 AS-BUILT DRAWINGS

- A. CONTRACTOR SHALL MAINTAIN RECORD DRAWING PRINTS ON JOB SITE AND RECORD, AT TIME OF OCCURRENCE, DEVIATIONS FROM CONTRACT DOCUMENTS DUE TO FIELD COORDINATION, BULLETINS, OR ADDFNDA
- B. CONTRACTOR SHALL REVISE SHOP DRAWINGS TO CONFORM TO RECORD DRAWINGS AND SUBMIT AS-BUILT CONDITION (PIPING AND DUCTWORK) DRAWINGS UPON COMPLETION OF THE PROJECT. FINAL SUBMISSION OF REPRODUCIBLE AS-BUILT DRAWINGS ARE TO BE SIGNED AND CERTIFIED BY THE INSTALLING CONTRACTOR THAT THIS IS THE AS-BUILT CONDITION OF THE WORK.
- C. ALSO PROVIDE FOUR (4) COPIES OF ALL AS-BUILT DRAWINGS AS PDF AND AUTOCAD FILES ON CD'S.
- 1.07 SERVICE AND WARRANTY (MAINTENANCE CONTRACT)
- A. THIS CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE PRICE, A FULL ONE YEAR SERVICE AND WARRANTY

OF ALL MECHANICAL COMPONENTS AND SYSTEMS, WITH PRICES FOR YEARS 2, 3 AND 4 FOLLOWING THIS FIRST YEAR. AT THE TIME OF ACCEPTANCE OF PROJECT. THE TENANT OR OWNER'S REPRESENTATIVE WILL DECIDE TO ACCEPT WHICH ALTERNATE, IF ANY.

- 1.08 SUBSTITUTIONS

- ANY SUBSTITUTIONS.
- 1.09 ACCESS DOORS IN GENERAL CONSTRUCTION
- MAINTENANCE, WITH A MINIMUM SIZE OF 18" X 18".
- 1.10 DEMOLITION. REMOVAL AND RELOCATION
- REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.

- INSTALLED OR EXISTING IS ALTERED, AS PER ARCHITECT'S INSTRUCTIONS.

- 1.11 CONNECTION TO EXISTING WORK
- BUILDING MANAGER.
- C. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES.
- 1.12 CHASING, CHOPPING OR CORE DRILLING PROCEEDING.
- 1.13 SYSTEM STARTUP, TESTING, COMMISSIONING, DEMONSTRATION, AND TRAINING

DRAWING ACCEPTANCE.

- ACCEPTANCE.
- FUNCTIONS THAT HAVE BEEN COMMISSIONED.

- SEPARATE TRIPS.

## PART 2 - PRODUCTS/APPLICATIONS

- 2.01 DUCTWORK AND ACCESSORIES

A. NO SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL TO THE ENGINEER WHICH INCLUDES ALL DIMENSIONAL, PERFORMANCE AND MATERIAL SPECIFICATIONS. ANY CHANGES IN LAYOUT, ELECTRICAL CHARACTERISTICS, STRUCTURAL REQUIREMENTS, OR DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER AS PART OF THIS PROPOSAL. THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR THE SUBSTITUTION AND ALL CHANGES RESULTING FROM SUBSTITUTION. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW IN CONJUNCTION WITH THE SUBMITTAL OF THE SUBSTITUTION. ANY SUBSTITUTION MUST BE SUBMITTED WITH AN EXPLANATION AS TO WHY A SUBSTITUTION IS BEING UTILIZED. IF THE SUBSTITUTED ITEM DEVIATES FROM THE SPECIFIED ITEM. THOSE DEVIATIONS ARE TO BE IDENTIFIED ON A LINE-BY-LINE BASIS. IF THE SUBSTITUTE IS BEING UTILIZED FOR FINANCIAL REASONS, THE ASSOCIATED CREDIT MUST BE SIMULTANEOUSLY SUBMITTED.

B. ALL SUBSTITUTED EQUIPMENT SHALL CONFORM TO SPACE REQUIREMENTS AND PERFORMANCE REQUIREMENTS SHOWN ON CONTRACT DOCUMENTS. CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT DOES NOT MEET THESE REQUIREMENTS AT HIS OWN EXPENSE. ANY MODIFICATIONS TO ASSOCIATED SYSTEMS OR ADDITIONAL COSTS ATTRIBUTED TO THIS SUBSTITUTION SHALL BE AT THIS CONTRACTOR'S EXPENSE.

C. CONTRACTOR SHALL SUBMIT BID BASED ON SPECIFIED ITEMS AND SHALL SUPPLY AS AN ALTERNATE PRICE

A. THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, VALVES, DAMPERS AND CONTROLS. CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLATION OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID. ACCESS DOORS SHALL BE OF ADEQUATE SIZE TO PROVIDE ACCESS TO CONCEALED ITEMS FOR OPERATION AND

A. REMOVAL, TEMPORARY CONNECTIONS AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. ALL EXISTING CONDITIONS ARE NOT TO BE COMPLETELY DETAILED ON THE DRAWINGS. THE CON-TRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.

B. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT, AND OTHER WORK AS NOTED OR

C. EQUIPMENT REQUIRED TO BE TEMPORARILY DISCONNECTED AND RELOCATED SHALL BE CAREFULLY REMOVED, STORED, CLEANED, REINSTALLED, RECONNECTED, AND MADE OPERATIONAL.

D. ALL EXISTING WORK NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE. WHERE EXISTING WORK TO REMAIN IS DAMAGED OR DISTURBED, THE CONTRACTOR SHALL REPAIR OR REPLACE TO OWNER'S AND BUILDING MANAGER'S SATISFACTION AT NO COST TO THE OWNER OR BUILDING MANAGEMENT.

E. GENERAL CONTRACTOR REMOVE ALL CEILING IN AREAS WHERE NEW DUCTWORK OR PIPING IS TO BE

F. ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING TENANTS AND SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.

G. ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED UNDER THIS CONTRACT WILL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE LEGALLY DISPOSED OF BY THIS CONTRACTOR AS DIRECTED BY THE ARCHITECT OR OWNER. REFRIGERATION CONTAINED IN EXISTING EQUIPMENT TO BE REMOVED SHALL BE RECLAIMED OR LEGALLY DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS AND ASHRAE.

H. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. COORDINATE ALL DEMOLITION AND REMOVALS WITH BUILDING MANAGEMENT.

A. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING MANAGEMENT. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. INSTALL ISOLATION DAMPERS AT CONNECTION TO EXISTING DUCTWORK. PROVIDE TEMPORARY DUCTWORK AND PIPING CONNECTIONS AS REQUIRED TO MINIMIZE SHUTDOWN TIME.

B. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT AND

A. PRIOR TO ANY CHASING, CHOPPING, OR CORE DRILLING BEING PERFORMED, THIS CONTRACTOR SHALL FIELD INVESTIGATE EXISTING CONDITIONS AND COORDINATE WITH ALL APPROPRIATE TRADES AND BUILDING MANAGEMENT TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO

A. STARTUP, TESTING, AND COMMISSIONING OF THE SYSTEM BY THIS CONTRACTOR SHALL BE SCHEDULED BEFORE THE SPACE IS OCCUPIED LEAVING ENOUGH TIME TO CORRECT THE SYSTEM'S DEFICIENCIES AND AFTER SHOP

B. THIS TESTING SHALL TAKE PLACE AFTER HAVING SATISFACTORILY MET THE REQUIREMENTS OF SHOP DRAWING

C. UPON SUCCESSFUL COMPLETION OF SYSTEM STARTUP, TESTING, AND COMMISSIONING, THE CONTRACTOR SHALL SUBMIT A STATEMENT STATING THAT THE FULL OPERATION OF ALL SYSTEMS, FUNCTIONS AND ALARMS HAS BEEN DEMONSTRATED AND ARE OPERATIONAL AS WELL AS A LISTING OF ALL SYSTEMS, ALARMS AND

D. AFTER CONTRACTOR IS SATSFIED THAT THE SYSTEM IS FULLY OPERATIONAL, A COMPLETE DEMONSTRATION AND TESTING OF THE SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, ENGINEER, AND BUILDING ENGINEER.

E. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE TO THE OWNER, OWNER'S REPRESENTATIVE AND ENGINEER BEFORE FINAL ACCEPTANCE CAN TAKE PLACE.

F. AFTER FINAL ACCEPTANCE, THIS CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER'S AND/OR LANDLORD'S PERSONNEL FOR ALL MECHANCIAL SYSTEMS INSTALLED AND/OR MODIFIED UNDER THIS RPOJECT. IF CONTRACTOR'S PERSONNEL CANNOT PROVIDE COMPREHENSIVE TRAINING FOR SPECIFIC EQUIPMENT TYPES, CONTRACTOR SHALL HIRE QUALIFIED MANUFACTURER'S REPRESENTATIVES TO PERFORM THIS TRAINING AT NO ADDITIONAL COST TO THE OWNER. INCLUDE AN ALLOW FOR A MINIMUM OF (8) HOURS OF TRAINING AND (2)

A. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, LATEST EDITION, SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL, LATEST EDITION, NFPA 90A LATEST EDITION, AND ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THE MOST STRINGENT REQUIREMENT OF ANY CODES SHALL APPLY.

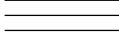
I. PROVIDE ALL SUPPORTING AND HANGING DEVICES IN ACCORDANCE WITH BUILDING CODE AND SMACNA.

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Permit/Seal

File Name: N/A



Client/Project Logo



Client/Project **NEW ROCHELLE** 

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801

## MECHANICAL SPECIFICATIONS

Project No.

191506465

NONE

Revision

Title

Scale



	J. PROVIDE FIRESTOPPING FOR ALL DUCT PENETRATIONS THROUGH FIRE-RATED PARTITIONS.	E)
	D. DUCTWORK LAYOUT AND ROUTING IS SCHEMATIC AND THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL DUCT SIZE CHANGES AND RELOCATIONS TO ACCOMMODATE SPACE AND STRUCTURAL CONDITIONS. OFFSETS AND TRANSFORMATIONS SHALL PRESERVE THE FULL INSIDE CROSS—SECTIONAL AREA OF DUCTWORK SHOWN ON THE DRAWINGS.	F)
	E. DUCTWORK (NEW AND EXISTING TO BE REUSED) SHALL HAVE PRESSURE CLASSIFICATION, SEALING REQUIREMENTS AND LEAKAGE TESTING IN ACCORDANCE WITH SMACNA AND AS LISTED BELOW UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS.	L. SEAL MATE M. ALL
	1. 2" CLASS: ALL LOW PRESSURE DUCTWORK. SEAL CLASS C, LEAKAGE CLASS 24 (RECTANGULAR) OR CLASS 12 (ROUND).	N. AUTO
	F. MATERIALS: 1. GALVANIZED STEEL: UNLESS OTHERWISE SPECIFIED OR INDICATED, DUCTS SHALL BE CONSTRUCTED OF	1. Pf M
	HOT-DIPPED GALVANIZED SHEETMETAL WITH 60 COMMERCIAL COATING ACCORDING TO ASTM 653 AND A924. 2. ALUMINUM: PROVIDE DUCTWORK OF ALUMINUM CONSTRUCTION, WHERE INDICATED. DUCTWORK SHALL BE ALLOY 3003-H14, OF THICKNESS REQUIRED BY THE SMACNA DUCT CONSTRUCTION STANDARDS. PROVIDE FOR ALL DUCTWORK EXPOSED TO WEATHER AND MOISTURE INCLUDING OUTSIDE AIR DUCTS WITHIN 10 FEET	2. Al D/ Mi Bl G/
	OF LOUVERS AND DISHWASHER EXHAUST. 3. FLEXIBLE CONNECTIONS AT FANS SHALL BE NEOPRENE COATED, FLAME RETARDANT GLASS FABRIC (COMPLYING WITH NFPA 90 AND 96), 30 OZ./SQ. YD. WITH SOWN AND CEMENTED SEAMS. FLEXIBLE CONNECTIONS MUST BE TESTED IN ACCORDANCE WITH UL 181, LISTED AND LABELED AS CLASS 0 OR CLASS 1 "FLEXIBLE AIR CONNECTORS".	T( 3. Al TE 4. D/
	4. FLEXIBLE DUCTWORK SHALL BE LIMITED TO THE LAST 6 FEET OF BRANCH DUCTWORK TO A SINGLE DIFFUSER OR REGISTER, UNLESS OTHERWISE NOTED. DO NOT INSTALL FLEXIBLE DUCTWORK IN LOCATIONS EXPOSED TO VIEW. FLEXIBLE DUCTS MUST BE TESTED IN ACCORDANCE WITH UL 181, LISTED AND LABELED AS CLASS 0 OR CLASS 1 "FLEXIBLE AIR DUCTS".	4. D/ 5. D/ 0. EXPO
	G. FABRICATION:	1. W W DI
	<ol> <li>CONFORM TO SMACNA AND MECHANICAL CODE REQUIREMENTS FOR METAL THICKNESS, REINFORCING, JOINTS, AND SEALING FOR MAXIMUM STATIC PRESSURES INVOLVED. ALL SEAMS AND JOINTS SHALL BE SEALED AND TAPED.</li> </ol>	2. PI PI
	2. ELBOWS SHALL CONFORM TO SMACNA REQUIREMENTS AND THE FOLLOWING: A) PROVIDE LONG RADIUS TYPE WITH CENTERLINE RADIUS MINIMUM 1.5 TIMES DUCT WIDTH. PROVIDE	3. Pf 4. UI Rf
	SHORT RADIUS OR SQUARE ELBOWS WHERE INDICATED OR WHERE REQUIRED TO FIT RESTRICTED SPACES. PROVIDE DOUBLE THICKNESS TURNING VANES ON ALL SHORT RADIUS AND MITERED ELBOWS. CONFORM TO SMACNA FOR THE NUMBER OF VANES FOR FITTINGS	IN 5. UI
	3. BRANCH CONNECTIONS: PROVIDE 45 DEGREE ENTRY OR CONICAL TAPS. PROVIDE RADIUS TYPE FITTINGS FOR DIVIDED FLOW BRANCHES.	RI IN 6. UI
	H. ACOUSTICALLY LINED DUCTWORK: 1. PROVIDE MATTE-FACED GLASS DUCT LINER, 1-INCH THICK -2 LB/CF DENSITY. DUCT DIMENSIONS	BI W
	INDICATED ARE CLEAR (NET) INSIDE DIMENSIONS. FOR DUCT VELOCITIES GREATER THAN 2,000 FPM, FACE DUCT LINER WITH 24 GAUGE PERFORATED ALUMINUM OR GALVANIZED STEEL, FULLY COVERING DUCT LINER, AND SUPPORTED 12" ON CENTER. DO NOT EXTERNALLY INSULATE ACOUSTICALLY LINED DUCTWORK.	2.02 <u>PIPIN</u> A. PROV THE
	CONFORM TO SMACNA REQUIREMENTS FOR INSTALLATION. PROVIDE ACOUSTICALLY LINED DUCT WHERE LISTED BELOW AND/OR SHOWN ON THE DRAWINGS:	B. PROV
	A) ALL TRANSFER DUCTS. B) WITHIN A MINIMUM OF 20 FEET OF ALL AC UNIT DISCHARGES.	C. ALL AND IDENT
	C) WITHIN A MINIMUM OF 20 FEET OF FAN INLET AND DISCHARGES.	D. ALL CONE
	D) WITHIN A MINIMUM OF 10 FEET DOWNSTREAM OF THE TERMINAL BOXES (VAV, DUAL DUCT, CAV OR FAN POWERED).	E. PIPE
	I. VOLUME DAMPERS: 1. GALVANIZED STEEL OR SAME AS DUCT CONSTRUCTION. CONFORM TO SMACNA HVAC DUCT CONSTRUCTION	SERV
	STANDARDS, 1995 OR LATEST EDITION, OPPOSED BLADE TYPE. PROVIDE BEARING AT BOTH ENDS OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW, AT ONE END. INSTALL WITH LEVERS ACCESSIBLE THROUGH INSULATION. SPLITTER DAMPER OR AIR EXTRACTORS SHALL NOT BE USED ON THIS PROJECT. 2. PROVIDE MANUAL BALANCING VOLUME DAMPERS AS REQUIRED TO PROPERLY BALANCE THE AIR	COLD SATE MISCE DRAIN OVER
	A) LOW PRESSURE: ALL SUPPLY AIR MAIN BRANCHES FROM TRUNK, EACH SPLIT, AND ALL SUB-BRANCHES	REFR (AIR COMM
3	B) LOW PRESSURE: ALL EXHAUST AND RETURN BRANCHES FROM TRUNK, EACH SPLIT, AND ALL SUB-BRANCHES B) LOW PRESSURE: ALL EXHAUST AND RETURN BRANCHES FROM TRUNK, EACH SPLIT AND ALL	REFR D. FITTIN
	SUB-BRANCHES FROM MAINS SHALL BE PROVIDED WITH BALANCING DAMPERS.	1. AI O
	J. DUCT ACCESS DOORS:	2. Fi B/ M
	<ol> <li>CONFORM TO SMACNA WITH PIANO HINGES, TWO SASH LOCKS AND DOOR GASKETS. SCREWED ACCESS PANELS ARE NOT PERMITTED. PROVIDE REMOVABLE ACCESS DOORS WHERE DOOR SWING CANNOT BE ACCOMMODATED.</li> </ol>	C 3. FI
	2. SIZE: MINIMUM 20"X14" EXCEPT DUCTS LESS THAN 16", ONE DIMENSION 20" AND THE OTHER DIMENSION, 2" LESS THAN THE DUCT WIDTH.	<u>PIPE MA</u>
	3. PROVIDE ACCESS DOORS: AT ENTERING AND LEAVING SIDES OF COILS IN DUCTS; AUTOMATIC DAMPERS ON LINKAGE SIDE, MANUAL VOLUME DAMPERS 2 SQ. FT. AND LARGER, FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, SMOKE DETECTION HEADS, FAN BEARINGS ENCLOSED IN DUCTS, SUCTION AND DISCHARGE SIDES OF CEILING MOUNTED FANS, FILTERS, REHEAT COILS, AT ALL EQUIPMENT REQUIRING ACCESS AND AS INDICATED ON DRAWINGS.	COPPER HARD DF
	K. FIRE DAMPERS:	
	<ol> <li>DYNAMIC FIRE DAMPERS:</li> <li>A) FUSIBLE LINK DYNAMIC RATED FIRE DAMPERS SHALL BE FURNISHED AND INSTALLED WHERE SHOWN ON PLANS AND/OR AS DESCRIBED ON SCHEDULES. DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 80, 90A &amp; 101 AND FURTHER SHALL BE TESTED, RATED AND LABELED IN ACCORDANCE WITH THE LATEST EDITION OF UL STANDARD 555. DAMPERS SHALL HAVE A UL555 FIRE RATING OF 1 1/2 HOURS</li> </ol>	
	OR 3 HOURS. B) DAMPERS SHALL BE CONSTRUCTED WITH A GALVANIZED STEEL FRAME, GALVANIZED CURTAIN STYLE BLADES IN GAUGES REQUIRED BY UL LISTING R13317. EACH FIRE DAMPER SHALL BE SUPPLIED AS A SINGLE ASSEMBLY WITH A FACTORY SLEEVE. EACH FIRE DAMPERS SHALL BE EQUIPPED WITH A FACTORY INSTALLED HEAT RESPONSIVE DEVICE, FUSIBLE LINK (REPLACEABLE), RATED TO CLOSE THE DAMPER WHEN TEMPERATURE AT THE DAMPERS REACHES 165°F.	COPPER HARD DF REFRIGEF SYSTEMS ACR PROV
4	C) DAMPERS SHALL HAVE A MINIMUM UL555 DIFFERENTIAL PRESSURE RATING OF 4IN. WG. DAMPERS SHALL ALSO A MINIMUM UL555 VELOCITY RATING OF 2,000 FPM.	COPP E. VALVI
	D) EACH DAMPER SHALL BE SUPPLIED WITH FACTORY RETAINING ANLES SIZED TO PROVIDE INSTALLATION OVERLAP IN ACCORDANCE WITH THE MANUFACTURER'S UL LISTING.	1. V/ Ol Ol H/

- FIRE DAMPERS SHALL BE TYPE B WITH SHUTTER OUT OF AIRSTREAM. DO NOT USE TYPE A WITH SHUTTER IN AIRSTREAM.
- FIRE DAMPER SHALL BE MANUFACTURED BY POTTORFF MODEL DFD-10D (1-1/2 HR. RATED) OR MODEL DFD-30D (3-HOUR RATED), OR APPROVED EQUAL.
- OPENINGS AROUND DUCTS THROUGH WALLS WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE RIAL. SEAL ALL DUCT PENETRATIONS THROUGH WALLS AIRTIGHT.
- DUCTS EXPOSED TO MOISTURE SHALL BE ALUMINUM, SLOPED AND DRAINED AND SHALL NOT BE RNALLY LINED.
- MATIC CONTROL DAMPERS:
- ROVIDE DAMPERS WITH PARALLEL BLADES FOR 2-POSITION CONTROL, OR OPPOSED BLADES FOR IODULATING CONTROL OF CONSTANT OR VARIABLE VOLUME SYSTEM.
- UTOMATIC DAMPERS TO BE VERY LOW LEAKING TYPE WITH JAMB AND BLADE SEALS RATED FOR SMOKE AMPER APPLICATION. CONSTRUCT BLADES OF 16 GAUGE GALVANIZED STEEL. PROVIDE HEAVY-DUTY IOLDED SELF-LUBRICATING NYLON BEARINGS, 1/2" DIAMETER STEEL AXLES SPACED ON 9" CENTERS, BLADES TO BE MAXIMUM 10" HIGH. FRAME SHALL BE CONSTRUCTED OF 16 GAUGE X 4-3/8" ALVANIZED HAT SHAPED STEEL PROPERLY BRACED WITH GALVANIZED STEEL FINISH AND ALUMINUM OUCH-UP.
- UTOMATIC DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM/FT2 AT 1.0 INCHES W.G. WHEN ESTED IN ACCORDANCE WITH AMCA 500D.
- AMPERS INSTALLED IN ALUMINUM DUCTS SHALL BE ALUMINUM WITH WEATHERPROOF COMPONENTS.
- AMPERS TO BE MANUFACTURED BY IMPERIAL OR APPROVED EQUAL.

DSED DUCTWORK:

- HERE DUCTWORK IS INDICATED TO BE EXPOSED TO VIEW IN OCCUPIED SPACES, PROVIDE MATERIALS 'HICH ARE FREE FROM VISUAL IMPERFECTIONS, INCLUDING PITTINGS, SEAM MARKS, STAINS, ISCOLORATIONS, AND OTHER IMPERFECTIONS.
- ROVIDE FINISHES WHICH WILL ALLOW PAINTING. CLEAN SURFACES OF ALL DUST, GREASE, AND DEBRIS PRIOR TO PAINTING BY THE GENERAL CONTRACTOR.
- ROVIDE FLAT TYPE SEAMS AND JOINTS FOR ALL EXPOSED DUCT CONSTRUCTION. INLESS OTHERWISE NOTED, ALL EXPOSED SUPPLY DUCTWORK IN FINISHED SPACES SHALL BE ECTANGULAR WITH FLAT SEAMS AND 1 INCH THICK INTERNAL ACOUSTICAL LINING, NO EXTERNAL DUCT ISULATION.
- NLESS OTHERWISE NOTED, ALL EXPOSED OUTSIDE AIR INTAKE DUCTWORK IN FINISHED SPACES SHALL BE ECTANGULAR WITH FLAT SEAMS AND 2 INCH THICK INTERNAL ACOUSTICAL LINING, NO EXTERNAL DUCT ISULATION.
- INLESS OTHERWISE NOTED, ALL EXPOSED RETURN AND EXHAUST DUCTWORK IN FINISHED SPACES SHALL RECTANGULAR WITH FLAT SEAMS, NO EXTERNAL DUCT INSULATION, INTERNAL ACOUSTICAL LINING ONLY HERE SPECIFIED IN SECTION 2.01-N.

IG AND ACCESSORIES

- VIDE ALL PIPING, FITTINGS, VALVES, SPECIALTIES, THERMOMETERS, AND PRESSURE GAUGES REQUIRED FOR OPERATING AND MAXIMUM PRESSURE AND TEMPERATURE OF THE PIPING SYSTEMS. VIDE FIRESTOPPING FOR ALL DUCT PENETRATIONS THROUGH FIRE-RATED PARTITIONS.
- PIPING SHALL BE NEW, STANDARD SIZE, FREE FROM SCALE OR RUST WITH ENDS CAPPED FOR DELIVERY STORAGE. EACH LENGTH OF PIPING SHALL BE PROPERLY MARKED AT THE MILL FOR PROPER TIFICATION WITH NAME OR SYMBOL OF MANUFACTURER.
- HORIZONTAL CONDENSATE PIPING SHALL BE PITCHED A MINIMUM OF 1/8" PER FOOT OF LENGTH. DENSATE PIPING SHALL NOT BE LESS THAN ³/₄" DIAMETER.

**APPLICATION SCHEDULE:** 

SERVICE	<u>SIZE</u>	MATERIAL	<u>WEIGHT</u>	STANDARD	JOINT <u>TYPE</u>
COLD CONDEN— SATE DRAINS MISCELLANEOUS DRAINS AND OVERFLOWS	ALL	HARD COPPER	TYPE L	ASTM A88	BRAZE OR SILVER SOLDER
REFRIGERANT (AIR COOLED AND COMMERCIAL REFRIGERATION)	ALL	HARD COPPER	TYPE ACR REFRIGER- ANT OR TYPE L	ASTM B280 OR ASTM B-88	BRAZE OR SOLDER

ING MATERIALS AND APPLICATION SCHEDULE:

- ILL FITTING JOINT TYPE SHALL BE THE SAME AS THE PIPING JOINT TYPE REQUIRED FOR SERVICE. BASED IN THE PIPING APPLICATION SCHEDULE.
- TTING CLASS SHALL MEET THE PRESSURE AND TEMPERATURE REQUIREMENT OF THE PIPING SYSTEM BASED ON ITS MAXIMUM OPERATING PRESSURE AND TEMPERATURE OR TEST PRESSURE, WHICHEVER IF MORE STRINGENT. PRESSURE AND TEMPERATURE RATINGS OF A FITTING SHALL BE DETERMINED BY ITS

	NGENT. PRESSURE ANI THE CORRESPONDING	D TEMPERATURE RATING ANSI STANDARD.	S OF A FITTING SHA	LL BE DETERMINE
3. FITTING APF	PLICATION TABLE:			
PE MATERIAL	PIPE SIZE <u>(INCHES)</u>	JOINT TYPE	FITTING <u>MATERIAL</u>	FITTINGS <u>CLASS</u>
)PPER TUBING ARD DRAWN	4"& SMALLER	SOLDER 95–5 TINANTIMONY ASTM B32 GR 95 TA	WROUGHT COPPER OR CAST COPPER	300 PSIG AT 100EF, 150 PSIG @ 250EF
		SILVER SOLDER ASTM B32 GR 95TS		
		BRAZING	WROUGHT COPPER	450 PSIG AT 100EF TO 200EF, 150 PSIG @ 250EF
DPPER TUBING ARD DRAWN FRIGERANT STEMS TYPE CR	4"& SMALLER	SOLDER 15-5-80 SILVER PHOSPHOROUS COPPER AWS A5.8 OR BRAZING	WROUGHT COPPER	STANDARD

/IDE DIELECTRIC FITTING AT ALL PIPING CONNECTIONS JOINING DISSIMILAR METALS, SUCH AS STEEL AND **PFR** 

ALVES SHALL HAVE NAME OF MANUFACTURER AND GUARANTEED WORKING PRESSURE CAST OR STAMPED IN BODIES. VALVES OF SIMILAR TYPE SHALL BE BY A SINGLE MANUFACTURER. VALVES LOCATED 7 FEET R MORE ABOVE OPERATING FLOOR OR PLATFORM SHALL BE PROVIDED WITH CHAIN OPERATED IANDWHEELS, RUSTPROOF CHAIN AND CHAIN GUIDE. GASKETS AND PACKINGS SHALL NOT CONTAIN

- ASBESTOS.
- UTILIZED.
- A) BALL VALVES (APOLLO)
- SWING CHECK VALVES (STOCKHAM)
- F. REFRIGERANT SYSTEMS:
- 3. HORIZONTAL PIPING OF THE COMPRESSOR SUCTION AND DISCHARGE LINES AND THE CONDENSER RECOMMENDED BY THE COMPRESSOR MANUFACTURER.
- WITH SLEEVES AS REQUIRED.
- TUBE TYPE L WITH SOLDERED FITTINGS.
- AND AS REQUIRED OR AS NOTED ON PLANS.
- EXISTING OPERATIONS AND SERVICE/MAINTENANCE REQUIREMENTS.
- K. HANGERS AND SUPPORTS:
  - AND TO BE MANUFACTURED BY GRINNELL OR APPROVED EQUAL.
- 2. PROVIDE INSULATED PROTECTIVE SADDLES FOR INSULATED PIPING
- AND CONCENTRATED LOADS DUE TO VALVES, STRAINERS AND OTHER ACCESSORIES.
- L. EXPANSION COMPENSATION:
- M. TESTING:
- 1. GENERAL
- EACH PIPING SYSTEM.
- 2. REFRIGERANT PIPING

  - OF EACH TEST SHALL BE TWENTY-FOUR (24) HOURS
- N. PIPE CLEANING:
- JURISDICTION. CHLORATES SHALL NOT BE USED.
- 2.03 INSULATION
- DEVELOPED INDEX OF 50 OR LESS.
- FURNISH AND INSTALL AS PER MANUFACTURER'S REQUIREMENTS.

### 2. ALL VALVING AND VALVE MATERIALS SHALL BE SUITABLE FOR THE OPERATING TEST AND MAXIMUM PRESSURE AND TEMPERATURE REQUIREMENTS OF THE PIPING SYSTEM FOR WHICH THEY ARE BEING

3. VALVING SHALL BE AS SHOWN ON THE DRAWINGS AND INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

B) ALL VALVE MANUFACTURERS SHALL BE AS LISTED OR APPROVED EQUAL BY THE ENGINEER.

1. PROVIDE ALL REFRIGERANT PIPING REQUIRED FOR A COMPLETE REFRIGERATION SYSTEM, WITH ALL VALVES, FITTINGS AND SPECIALTIES NECESSARY FOR SATISFACTORY OPERATION IN ACCORDANCE WITH ASHRAE STANDARD 15-1994 OR LATEST EDITION AND ALL AUTHORITIES HAVING JURISDICTION. REFRIGERATION SYSTEM SHALL INCLUDE ALL REQUIRED ITEMS FOR CHARGING, DRAINING AND PURGING THE SYSTEM.

2. JOINTS IN REFRIGERATION PIPING SHALL BE BRAZED. REFRIGERANT PIPING SHALL BE OF THE SIZE RECOMMENDED BY THE MANUFACTURER AND AS APPROVED BY THE ENGINEER.

DISCHARGE LINES SHALL BE PITCHED A MINIMUM OF 1/2" IN 10', IN THE DIRECTION OF REFRIGERANT FLOW. EACH SUCTION GAS VERTICAL RISER SHALL BE TRAPPED AT ITS EVAPORATOR WITH A TRAP AS

4. INSTALL REFRIGERANT PIPING TO PREVENT EXCESSIVE OIL FROM BEING TRAPPED IN THE SYSTEM. ANY ADDITIONAL RISERS OR EQUALIZER LINES REQUIRED BY THE MANUFACTURER OF EQUIPMENT FOR THE PROPER SYSTEM OPERATION SHALL BE INSTALLED AS PART OF THIS CONTRACT. PROVIDE A FULLY PIPED OIL SEPARATOR FOR EACH REFRIGERANT SYSTEM AS PER MANUFACTURER=S RECOMMENDATIONS.

5. VALVES SHALL BE DESIGNED FOR REFRIGERANT SERVICE. SHUTOFF VALVES SHALL BE BRASS PACKLESS TYPE. UNIONS, FLANGED VALVES OR FITTINGS SHALL BE PROVIDED FOR DISCONNECTING EQUIPMENT, CONTROLS, ETC., FOR MAKING REPAIRS. PIPING SHALL BE RUN IN A SINGLE LAYER, WITH EACH LINE ISOLATED FROM ANOTHER TO PREVENT RUBBING. PROVISION SHALL BE MADE FOR EXPANSION AND CONTRACTION OF PIPING. ALL PIPING PASSING THROUGH WALLS, PARTITIONS, ETC. SHALL BE FURNISHED

6. REFRIGERANT PIPING PASSING THROUGH RATED FLOORS OR DEMISING WALLS SHALL BE ENCLOSED IN A RIGID AND GAS-TIGHT CONTINUOUS FIRE-RESISTING PIPE DUCT OR SHAFT VENTED TO THE OUTSIDE, IN ACCORDANCE WITH ASHRAE STANDARD 15-1994 OR LATEST EDITION. PIPE CONDUIT SHALL BE COPPER

G. PROVIDE CORE DRILLED OPENINGS WITH PIPE SLEEVES AT ALL SLAB AND SHAFT PENETRATIONS. PROVIDE FIREPROOFING AS REQUIRED TO MAINTAIN WALL, SHAFT AND SLAB FIRE RATINGS.

H. PROVIDE WATERPROOF SLEEVES (LINK SEAL (LS TYPE) AT ALL EXTERIOR WALL AND FLOOR PENETRATIONS,

I. PROVIDE LABELING OF ALL PIPING (BOTH EXPOSED AND CONCEALED) IN ACCORDANCE WITH ANSI STANDARDS AND COLOR CODED AS PER BUILDING MANAGEMENT STANDARDS. LABELS TO BE SECURELY FASTENED TO PIPING WITH LETTERING OF SUFFICIENT SIZE FOR EASY IDENTIFICATION BY OPERATING PERSONNEL.

J. ALL PIPING TO BE MAINTAINED AT THE HIGHEST ELEVATIONS POSSIBLE SO AS NOT TO INTERFERE WITH

1. PROVIDE ALL PIPE HANGERS, HANGAR RODS SUPPORTS, INSERTS, ATTACHMENTS, CLAMPS, GUIDES, SUPPLEMENTAL STEEL AND ANCHORS AS REQUIRED TO INSTALL PIPING SYSTEM SIZED TO ACCOMMODATE THE SYSTEM LOADS. HANGERS AND SUPPORTS ARE TO BE IN ACCORDANCE WITH MSS RECOMMENDATIONS

3. PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH RECOMMENDATIONS OF MSS SP-69 AND ALL APPLICABLE CODES. ALL THREADED ROD IS TO BE GALVANIZED. PROVIDE 2" VERTICAL ADJUSTMENT FOR ALL HANGERS. PROVIDE ADDITIONAL SUPPORTS AT CHANGES IN DIRECTION, BRANCH PIPING OVER 5 FEET,

1. ALL PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION TO PROTECT THE BUILDING, EQUIPMENT AND PIPING SYSTEMS. PROVIDE ALL GUIDES, ANCHORS, EXPANSION LOOPS, SUPPLEMENTAL STEEL AND APPROVED TYPE EXPANSION JOINTS AS INDICATED OR REQUIRED FOR CONTROL OF EXPANSION.

A) TESTS SHALL BE CONDUCTED AFTER COMPLETION AND ASSEMBLY OF PIPING SYSTEM, BEFORE ANY INSULATION OR PAINT IS APPLIED TO JOINTS. INCLUDING WELDS AND PRIOR TO MAKING THE SYSTEM OPERABLE. INSULATION MATERIALS INSTALLED PRIOR TO THE TESTS SHALL BE REMOVED.

B) THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY PIPING CONNECTIONS, TEES, VALVES, EQUIPMENT, AND LABOR TO PRESSURE TEST PIPING AND EQUIPMENT.

C) EQUIPMENT THAT IS NOT SUBJECTED TO THE PRESSURE TEST SHALL BE EITHER DISCONNECTED FROM THE SYSTEM OR ISOLATED BY A BLANK OR SIMILAR MEANS. VALVES MAY BE USED FOR THIS PURPOSE PROVIDED THAT VALVE CLOSURE IS SUITABLE FOR THE PROPOSED TEST PRESSURE.

D) SUBMIT TO THE ENGINEER AND OWNER REPRESENTATIVE A RECORD OF TEST PRESSURE APPLIED TO

A) THE REFRIGERANT PIPING FOR TIGHTNESS AND LEAKS UNDER PRESSURE OR VACUUM. THE DURATION

B) TEST JOINTS IN ACCORDANCE WITH ASHRAE 15–1994. THERE SHALL BE NO OBSERVABLE LEAKS OR CHANGES IN PRESSURE. IF EITHER IS OBSERVED, SEAL LEAKS, AND REPEAT TEST PROCEDURES.

1. NEW PIPING SYSTEMS SHALL BE ISOLATED, CLEANED AND CHEMICALLY TREATED WHEN THE INSTALLATION IS COMPLETED TO REMOVE ANY CONSTRUCTION DEBRIS AND PROVIDE CORROSION PROTECTION.

2. PROVIDE THE NECESSARY APPARATUS, COMPLETE WITH RELIEF VALVES, ISOLATING VALVES, CHECK VALVES, PIPING, POWER, WIRING, CHEMICALS, FEED TANKS, AND SERVICE TO PROVIDE PROPER WATER TREATMENT FOR THE CONTROL OF SCALE, CORROSION AND MICROBIOLOGICAL GROWTHS IN THE PIPING SYSTEMS. ALL CHEMICALS USED SHALL COMPLY WITH POLLUTION CONTROLS ESTABLISHED BY ALL AUTHORITIES HAVING

A. ALL INSULATION SHALL MEET THE REQUIREMENTS OF ASTM, NFPA, THE ENERGY CODE AND ALL AUTHORITIES HAVING JURISDICTION. ALL MECHANICAL INSULATION (JACKETING, COVERINGS, ADHESIVES, MASTICS, FACINGS, TAPES, ETC.), SHALL HAVE RATINGS NOT EXCEEDING A FLAME SPREAD OF 25 OR LESS AND SMOKE

B. BEFORE APPLYING INSULATION, ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED.

C. INSULATION FOR FITTINGS OR ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL HAVE INSULATION

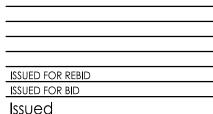


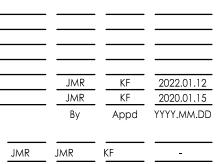
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Permit/Seal

File Name: N/A



Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

## MECHANICAL SPECIFICATIONS

Project No. 191506465

Revision

Scale NONE



REMOVABLE AND REPLACEABLE WITHOUT DAMAGE.

D. PIPE INSULATION:

- 1. FIBERGLASS PIPE INSULATION: ONE-PIECE MOLDED SECTIONAL FIBERGLASS INSULATION, CONFORMING TO ASTM C-547, CLASS 1, 2, 3 TO 850EF WITH 4 LB./CU. FT. DENSITY WITH A THERMAL CONDUCTIVITY OF NOT OVER 0.23 AT 75EF MEAN. PROVIDE WITH FACTORY-APPLIED ALL SERVICE JACKET AND DOUBLE ADHESIVE SELF-SEALING LAP. COLD WATER PIPE INSULATION JACKET SHALL BE OF THE CONTINUOUS VAPOR BARRIER TYPE. THE INSULATION SHALL BE SIMILAR TO OWENS-CORNING FIBERGLASS ASJ/SSL-II PIPE INSULATION.
- 2. CALCIUM SILICATE PIPE INSULATION: MOLDED CALCIUM SILICATE PIPE INSULATION, CONFORMING TO ASTM C-335, 1200EF MAXIMUM TEMPERATURE, ASBESTOS FREE, SHALL HAVE A NOMINAL 14 LB./CU. FT. DENSITY WITH A THERMAL CONDUCTIVITY OF NOT OVER 0.44 AT 300EF MAIN TEMPERATURE. WIRE ON PRE-MOLDED SECTION OF CALCIUM SILICATE AND APPLY SKIM COAT OF FINISHING CEMENT TO SMOOTH OUT SURFACE OF INSULATION. THE INSULATION SHALL BE SIMILAR TO OWENS-CORNING KAYLO.
- 3. INSULATION FOR FITTINGS, FLANGES, AND VALVES: PROVIDE INSULATION FOR FITTINGS, FLANGES, AND VALVES PREMOLDED, PRECUT, OR JOB FABRICATED OF THE SAME THICKNESS AND CONDUCTIVITY AS USED ON ADJACENT PIPING.
- 4. INSULATION THICKNESS FOR PIPING, FITTINGS, FLANGES AND VALVES SHALL BE AS FOLLOWS, BASED ON INSULATION HAVING A CONDUCTIVITY (K) NOT EXCEEDING 0.27 BTU/H PER INCH/H*FT2*DEGF AT A MEAN TEMPERATURE OF 75 DEGF. ADJUST THICKNESS FOR DIFFERENT CONDUCTIVITY.
- a. FOR REFRIGERANT PIPING, INSULATION THICKNESS SHALL BE 1-1/2 INCHES.

b. FOR COLD CONDENSATE DRAIN AND COLD CONDENSATE PUMP DISCHARGE PIPING, INSULATION THICKNESS SHALL BE 1 INCH. 5. INDOOR PIPING EXPOSED IN FINISHED SPACES A) PROVIDE PVC JACKET, ZESTON 2000 OR EQUAL. PROVIDE A MOISTURE BARRIER LINING. E. DUCT INSULATION: 1. GENERAL A) INSULATION SHALL BE APPLIED WITH MASTICS, ADHESIVES, AND COATINGS, WITH COVERS, WEATHER-PROTECTION AND OTHER WORK AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS AND SMACNA. 2. INDOOR DUCTWORK A) ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR INTAKE, AND EXHAUST/SPILL/RELIEF AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY, UNLESS OTHERWISE INDICATED. WHEN LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM MUST BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION. B) CONCEALED DUCTWORK: INSULATE SUPPLY AND FRESH AIR DUCTS AND PLENUMS IN CONCEALED SPACES AND RETURN DUCT NOT IN CEILING PLENUM WITH AT LEAST 1-1/2" THICK FIBROUS GLASS DUCT WRAP, WITH A MINIMUM R-VALUE OF R-6 AND FOIL-KRAFT FLAME RESISTANT VAPOR BARRIER. C) EXPOSED DUCTWORK: INSULATE EXPOSED SUPPLY, RETURN AND FRESH AIR DUCTS AND EXPOSED PLENUMS WITH AT LEAST 2" THICK, SEMI-RIGID FIBROUS GLASS BOARDS WITH A MINIMUM R-VALUE OF R-6 AND A FACTORY APPLIED FIRE RETARDANT FOIL REINFORCED KRAFT VAPOR BARRIER FACING. PROVIDE WELD PINS AND VAPOR SEAL ALL JOINTS WITH TAPE. (THIS REQUIREMENT DOES NOT APPLY TO INTERNALLY LINED DUCTWORK LOCATED IN FINISHED SPACES.) D) RETURN DUCTS AND PLENUMS LOCATED IN CONDITIONED SPACES OR CEILING PLENUMS SHALL NOT REQUIRE INSULATION. E) EXHAUST/SPILL/RELIEF AIR DUCTS AND PLENUMS LOCATED UPSTREAM OF MOTORIZED OR BAROMETRIC ISOLATION DAMPERS SHALL NOT REQUIRE INSULATION. PORTIONS AFTER ISOLATION DAMPERS MUST BE INSULATED FROM THE DAMPER TO THE WALL/ROOF PENETRATION. F) WHERE INDOOR DUCTWORK IS INTERNALLY ACOUSTICALLY LINED, EXTERNAL INSULATION THICKNESS MAY BE REDUCED SUBJECT TO MAINTAINING THE R-VALUES SPECIFIED HEREIN 3. OUTDOOR DUCTWORK A) ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR INTAKE, AND EXHAUST/SPILL/RELIEF AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTDOORS OR OUTSIDE THE BUILDING ENVELOPE ASSEMBLY. B) INSULATE OUTDOOR DUCTWORK AND PLENUMS WITH AT LEAST 2" THICK, SEMI-RIGID FIBROUS GLASS BOARDS WITH A MINIMUM R VALUE OF R-8 AND A FACTORY APPLIED FIRE RETARDANT FOIL REINFORCED KRAFT VAPOR BARRIER FACING. PROVIDE WELD PINS AND VAPOR SEAL ALL JOINTS WITH TAPF. C) IN ADDITION, APPLY TWO (2) COATS OF WEATHERPROOF MASTIC AND EMBED INTO WET COAT TWO (2) LAYERS OF GLASS CLOTH OVER INSULATION JACKET. SMOOTH MEMBRANE TO AVOID WRINKLES AND OVERLAP ALL SEAMS AT LEAST 3". APPLY A SECOND COAT OF THE SAME COATING TO THE ENTIRE SURFACE. TOP CENTER OF RECTANGULAR DUCT SHALL PITCH TO EACH SIDE TO AVOID TRAPPING OF WATER IN THE CENTER. 2.04 ELECTRICAL WORK A. GENERAL 1. ELECTRICAL POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACT; CONTROL WIRING SHALL BE BY THE HVAC CONTRACT. CONTROL WIRING SHALL BE DEFINED AS ANY 12V, 24V, OR 120V WIRING INSTALLED FOR PURPOSES OTHER THAN PROVIDING PRIMARY ELECTRICAL POWER TO EQUIPMENT. 2. MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES (VFD) SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO THE EQUIPMENT SECTION FOR VARIABLE FREQUENCY DRIVE SPECIFICATIONS. 3. DUCT MOUNTED SMOKE DETECTORS, WHERE REQUIRED, SHALL BE PROVIDED BY AD WIRED BY THE ELECTRICAL CONTRACTOR, AND MOUNTED BY THE HVAC CONTRACTOR.

- 4. ALL ELECTRICAL CONTROL WIRING SHALL COMPLY WITH LOCAL ELECTRICAL CODE, ALL AUTHORITIES HAVING JURISDICTION AND THE PROJECT ELECTRICAL SPECIFICATIONS.
- 5. MECHANICAL CONTRACTOR TO OBTAIN QUANTITY OF CONTROLLERS REQUIRED AND COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL OPERATING REQUIREMENTS, INTERLOCKS AND CONNECTIONS FOR STARTERS.
- 6. THE MECHANICAL CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL POINT-TO-POINT, COMPLETELY COORDINATED WIRING DIAGRAMS AND INDICATE ALL SOURCE POWER REQUIREMENTS AND ALL FIELD WIRING TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR.
- 7. WHERE EXISTING STARTERS ARE TO BE REUSED, THIS CONTRACTOR SHALL MAINTAIN ALL EXISTING CONTROL CONNECTIONS. WHERE NEW STARTERS ARE TO BE PROVIDED TO REPLACE EXISTING, THIS CONTRACTOR SHALL SURVEY THE EXISTING CONTROL CONNECTIONS AND PREPARE AN EXISTING CONTROL WIRING DIAGRAM PRIOR TO DEMOLITION FOR SUBMITTAL TO THE ENGINEER. THE NEW STARTERS SHALL BE PROVIDED WITH THE NECESSARY CONTACTS AND RELAYS REQUIRED TO RECONNECT THE EXISTING CONTROLS. PROVIDE ALL REQUIRED CONTACTS FOR UNIT START/STOP AND FIRE ALARM.
- B. MOTORS:
- . MOTORS SHALL HAVE THE ELECTRICAL CHARACTERISTICS AS LISTED ON THE DRAWINGS. COORDINATE ALL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. ALL MOTORS SHALL COMPLY WITH NEMA MG-1 STANDARD AND SHALL BE OF THE HIGH EFFICIENCY TYPE AND MEET THE 1992 EPA ENERGY EFFICIENCY

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ACT AND UTILITY COMPANY REBATE REQUIREMENTS.

- 2. MOTORS FOR VARIABLE FREQUENCY DRIVES (VFD) SHALL BE INVERTED DUTY RATED, SUITABLE FOR USE WITH VARIABLE FREQUENCY DRIVES, AND SHALL COMPLY WITH NEMA MG-1 PART 31.40.4.2. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS OF THE MOTOR AND VFD MANUFACTURER. PROVIDE A SHAFT GROUNDING RING FOR EACH MOTOR CONNECTED TO A VFD TO PROTECT BEARINGS FROM DAMAGE, AEGIS TYP AGR OR APPROVED EQUAL.
- 3. IF CONTRACTOR ELECTS TO SUBSTITUTE OR INCREASE MOTOR HORSEPOWER OVER THAT WHICH IS SPECIFIED, THE COST OF MOTOR AND ELECTRICAL CHANGES SHALL BE BORNE BY THIS CONTRACTOR. F. STARTERS:
- 1. EACH MOTOR EXCEPT AS NOTED, SHALL BE PROVIDED WITH A COMBINATION FUSED DISCONNECT AND ACROSS-THE-LINE MAGNETIC STARTER WITH PUSHBUTTON STATIONS MOUNTED ON THE COVER. COORDINATE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. FOR AUTOMATICALLY OR REMOTELY CONTROLLED MOTORS, FURNISH HAND OFF AUTO (HOA) SELECTOR SWITCHES IN PLACE OF THE PUSH BUTTONS.
- 2. FURNISH MANUALLY OPERATED MOTOR STARTERS OF THE PROPER SIZE FOR ALL MOTORS LESS THAN 1/2 HP WHICH ARE NOT AUTOMATICALLY CONTROLLED. STARTERS FOR MOTORS 175 WATTS OR LESS SHALL CONSIST OF A SNAP SWITCH WITH THERMAL OVERLOAD PROTECTION WHERE SUCH PROTECTION IS NOT AN INTEGRAL PART OF THE MOTOR.
- 3. COMBINATION MAGNETIC STARTERS FOR ALL MOTORS SHALL HAVE THERMAL OVERLOAD, PILOT LIGHT, LOW VOLTAGE PROTECTION IN ALL THREE PHASES. INCLUDE A CONTROL TRANSFORMER FOR EACH MAGNETIC STARTER TO PROVIDE 120 VOLT CONTROL POWER WITH THREE (3) SETS OF SPARE NORMALLY CLOSED OR NORMALLY OPEN CONTACTS.
- 4. ALL STARTERS SHALL BE ASSEMBLED AND INTERNALLY WIRED WITH ALL DEVICES IN CONFORMANCE WITH NEMA STANDARDS.
- 5. DISCONNECT SWITCHES ARE PROVIDED BY THE ELECTRICAL CONTRACTOR IF NOT INTEGRAL WITH EQUIPMENT. G. ENCLOSURES:
- 1. PROVIDE ENCLOSURES FOR STARTERS AND VFD'S SUITABLE FOR OPERATING ENVIRONMENT. ENCLOSURES SHALL BE NEMA 1 VENTILATED SHEETMETAL FOR INDOOR APPLICATION, NEMA 3R WITH ADDITIONAL GASKETING WEATHERPROOF RAINTIGHT ENCLOSURE OR EXPOSED OUTDOOR SERVICE OR INDOOR SERVICE EXPOSED TO MOISTURE. PROVIDE DISCONNECT SWITCH ON ENCLOSURE AS REQUIRED FOR SERVICE.

### 2.05 VIBRATION ISOLATION PRODUCTS

A. FURNISH AND INSTALL ALL NECESSARY VIBRATION ISOLATORS, VIBRATION HANGERS, MOUNTING PADS, RAILS, ETC., TO ISOLATE VIBRATION AND SOUND FROM BEING TRANSMITTED TO THE BUILDING CONSTRUCTION. ALL VIBRATION ISOLATION PRODUCTS SHALL BE SPECIFICALLY DESIGNED FOR THEIR INTENDED USE.

B. MANUFACTURER OF VIBRATION ISOLATION EQUIPMENT SHALL HAVE THE FOLLOWING RESPONSIBILITIES:

1. DETERMINE VIBRATION ISOLATOR SIZES AND LOCATIONS.

- 2. PROVIDE SUITABLE PIPING AND EQUIPMENT VIBRATION ISOLATION SYSTEMS.
- 3. GUARANTEE SPECIFIED ISOLATION SYSTEM ATTENUATION AND DEFLECTION.
- 4. PROVIDE INSTALLATION INSTRUCTIONS, DRAWINGS AND FIELD SUPERVISION TO ASSURE PROPER INSTALLATION AND PERFORMANCE.

C. ISOLATION SYSTEMS SHALL BE MANUFACTURED BY MASON INDUSTRIES OR APPROVED EQUAL BY THE ENGINEER.

D. MOUNTING TYPES:

- 1. STATIC DEFLECTION OF ISOLATORS SHALL BE A MINIMUM OF 90% EFFICIENCY. PROVIDE CORROSION PROTECTION FOR EQUIPMENT MOUNTED OUTDOORS.
- 2. FLOOR AND ROOF MOUNTING OF FACTORY ASSEMBLED AIR HANDLING UNITS, AIR CONDITIONING UNITS, HEAT EXCHANGERS AND CONDENSING UNITS - SPRING ISOLATORS (ROOF EQUIPMENT TYPE SLR), OR (INDOOR EQUIPMENT TYPE SLF).
- 3. MOUNTING OF CEILING-SUPPORTED FANS, IN-LINE PUMPS, HEAT EXCHANGERS, AND AIR HANDLING UNITS - SPRING ISOLATORS - (TYPE DNHS).
- 4. ROOFTOP AC UNITS SPRING ROOF CURB TYPE RSC.
- 5. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL FANS AND DUCTWORK (REFER TO DUCTWORK SECTION FOR SPECIFICATIONS).

### 2.07 TESTING AND BALANCING

### A. GENERAL:

- 1. TESTING AND BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT COMPANY (NOT ASSOCIATED WITH THE HVAC CONTRACTOR). AABC CERTIFIED OR AS APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK. APPROVED COMPANIES INCLUDE MERENDINO ASSOCIATES. R.H. MCDERMOTT. INTERNATIONAL TESTING AND BALANCING OR AS APPROVED BY THE ENGINEER AND BUILDING MANAGEMENT.
- 2. AFTER ALL PROJECT HVAC WORK IS COMPLETE, TESTED, AND IN FULL WORKING ORDER, THE AGENCY SHALL PERFORM THE BALANCING AND TESTING OF THE PROJECT HEATING. VENTILATING AND AIR CONDITIONING SYSTEMS.
- 3. UPON THE COMPLETION OF THE AIR CONDITIONING SYSTEM, THE BALANCING AGENCY SHALL PERFORM TESTING AND BALANCING AND COMPILE ALL TEST DATA IN A CERTIFIED REPORT AND SUBMIT FOUR (4) COPIES FOR REVIEW AND APPROVAL TO THE ENGINEER.
- 4. THE REPORT SHALL INCLUDE DESIGN AND ACTUAL READINGS FOR ALL EQUIPMENT AND LOCATION PLAN INDICATING WHERE ALL WORK HAS BEEN PERFORMED, AND METHODS OF BALANCING AND DETAILS OF INSTRUMENTS USED.
- 5. IF DISCREPANCIES EXIST IN THE REPORT THAT REQUIRE FIELD VERIFICATION, THE TESTING AND BALANCING COMPANY IN THE PRESENCE OF THE ENGINEER SHALL VISIT THE JOBSITE FOR FIELD VERIFICATION OF THE REPORT
- 6. AFTER SUBMISSION OF THE FIELD VERIFIED BALANCING REPORT, THE AIR BALANCING COMPANY SHALL RETURN TO THE JOB SITE TO PERFORM TWO (2) OCCUPANT COMFORT BALANCES AS DIRECTED BY THE OWNER OR ENGINEER.
- 7. THE FINAL REPORT AFTER THE COMFORT BALANCE IS TO BE INCLUDED IN PROJECT OPERATING AND MAINTENANCE MANUAL.
- 8. THE TESTING AND BALANCING AGENCY SHALL INCLUDE AS PART OF THEIR WORK AN EXTENDED WARRANTY OF 90 DAYS AFTER COMPLETION OF TEST AND BALANCE WORK. THE ENGINEER AT HIS DISCRETION DURING THE WARRANTY PERIOD MAY REQUEST A RECHECK OR RESETTING OF ANY EQUIPMENT. THE MECHANICAL CONTRACTOR AND THE BALANCING CONTRACTOR SHALL PROVIDE THE NECESSARY TECHNICIANS TO FACILITATE THIS WORK.
- 9. THE BALANCING AGENCY SHALL PERMANENTLY MARK ALL ADJUSTMENT DEVICES (VALVES, DAMPERS, ETC.) TO ENABLE THE SETTING TO BE RESTORED.
- 10. HVAC CONTRACTOR SHALL ARRANGE FOR THE AUTOMATIC CONTROLS SUBCONTRACTOR TO BE ONSITE DURING BALANCING TO ADJUST, MONITOR, AND CALIBRATE SYSTEM OPERATION AS NEEDED TO FACILITATE BALANCING.
- 11. BALANCER SHALL IMMEDIATELY NOTIFY HVAC CONTRACTOR IF BALANCING SCOPE CANNOT BE COMPLETED DUE TO MALFUNCTIONING EQUIPMENT OR INCOMPLETE INSTALLATIONS. HVAC CONTRACTOR SHALL PERFORM CORRECTIVE WORK SO THAT THE BALANCER CAN COMPLETE BALANCING SCOPE AND SUBMIT A COMPLETE REPORT. IF CORRECTIVE WORK CANNOT BE COMPLETED, HVAC CONTRACTOR SHALL NOTIFY THE GENERAL

- CONTRACTOR VIA RFI FOR DISTRIBUTION TO ENGINEER.
- **IDENTIFICATION.**
- B. AIR BALANCING
- INDIVIDUAL AIR INLETS AND OUTLETS AND (5) PERCENT FOR EQUIPMENT AND SYSTEMS.
- OF WORK
- C) QUANTITY OF AIR AT EACH AIR INLET AND OUTLET AFTER BALANCING.
- PLACED INTO 100% AIRSIDE ECONOMIZER MODE.
- DUCT) AS REQUIRED TO MEET SPECIFIED MINIMUM/MAXIMUM CFM.
- 2.08 EQUIPMENT
- ON THE DRAWINGS.
- INSTRUCTIONS, AND ALL AUTHORITIES HAVING JURISDICTION.
- SPECIFICATION AND AS FOLLOWS:
- ISOLATORS.
- DIRECTLY FROM BUILDING STEEL STRUCTURE.

- E. DIFFUSERS, GRILLES AND REGISTERS

1. GENERAL

- TO WHICH THEY ARE TO BE INSTALLED.
- OF THE PROJECT.
- MOUNTED TIGHTLY AGAINST MOUNTING SERVICE.
- APPROVED EQUAL.
- SPECIFICATIONS AND SCHEDULES SHALL BE INDICATED ON SUBMITTAL.
- 2. AIR INLET AND OUTLET DEVICES:
- OUTLETS, OF THE SIZE, TYPE AND DESIGN INDICATED ON DRAWINGS.
- B) ALL CEILING DIFFUSERS SHALL BE PROVIDED WITH EQUALIZING GRIDS.
- DAMPER.
- 2-WAY AND 3-WAY DIFFUSERS.
- VALVES.
- 2.09 AUTOMATIC TEMPERATURE CONTROLS
- A. GENERAL:

12. AS PART OF THE BALANCING REPORT, PROVIDE FLOOR PLANS WITH A UNIQUE TAG FOR EACH DEVICE FOR WHICH AIRFLOW OR WATER FLOW WAS MEASURED. THESE TAGS SHALL USED IN THE REPORT FOR

13. AS PART OF THE BALANCING REPORT, PROVIDE A COVER LETTER IDENTIFYING ALL SYSTEMS THAT COULD NOT BE BALANCED TO DESIGN FLOWS, AND REASONS THAT FLOWS COULD NOT BE ACHIEVED.

1. HVAC CONTRACTOR SHALL ENSURE THAT A FIRST SET OF AIR FILTERS ARE IN PLACE, WHENEVER FANS ARE RUNNING AND REPLACED WITH A NEW CLEAN SET OF FILTERS BEFORE TESTING IS COMMENCED.

2. TEST, ADJUST, REPLACE SHEAVES, REPLACE BELTS, AND BALANCE ALL EQUIPMENT AND AIR DISTRIBUTION SYSTEMS TO PROVIDE AIR QUANTITIES INDICATED ON PLANS WITHIN PLUS OR MINUS (10) PERCENT FOR

3. TEST REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

A) FLOW, LEAKAGE CLASS, TEMPERATURE, STATIC PRESSURE OF AIR AT ALL TRUNK DUCTS SERVING AREAS

B) TEMPERATURE OF AIR LEAVING OUTLETS AT TWO (2) TYPICAL AIR OUTLETS FOR EACH SYSTEM.

D) PROVIDE FOR ALL FANS: FAN MOTOR HP, AMPS, VOLTS, FAN RPM, CFM, INLET AND DISCHARGE STATIC PRESSURE, SHEAVE POSITION. TOTAL AIRFLOWS SHALL BE DETERMINED BY DUCT TRAVERSE, NOT SUM OF CONNECTED AIR INLETS OR OUTLETS. INCLUDE A FLOW DIAGRAM FOR EACH FAN IN THE REPORT.

E) PROVIDE FOR ALL AIR CONDITIONING UNITS AND AIR HANDLING UNITS: SUPPLY AIR CFM, OUTSIDE AIR CFM, RETURN AIR CFM, AND SPILL AIR CFM. TOTAL AIRFLOWS SHALL BE DETERMINED BY DUCT TRAVERSE, NOT SUM OF CONNECTED AIR INLETS OR OUTLETS. INCLUDE A FLOW DIAGRAM FOR EACH AIR SYSTEM IN THE REPORT. PLACE UNITS INTO OCCUPIED MODE (WITH AIRSIDE ECONOMIZER AND DEMAND CONTROLLED VENTILATION DISABLED) FOR AIRFLOW TESTING. PROVIDE OUTSIDE AIR. MIXED AIR, RETURN AIR, AND SUPPLY AIR TEMPERATURES (DRY BULB - COOLING AND HEATING, WET-BULB-COOLING). FOR UNITS WITH AIRSIDE ECONOMIZER, REPEAT AIRFLOW TESTING WITH UNIT

F) CALIBRATE ALL NEW AND EXISTING TO BE REUSED TERMINAL BOXES (VAV, FAN POWERED, OR DUAL

G) LIST DESIGN AND ACTUAL READINGS AS WELL AS ALL MANUFACTURER'S DATA FOR EQUIPMENT.

A. PROVIDE ALL EQUIPMENT AND ACCESSORIES OF THE SIZES AND CAPACITIES AS SCHEDULED AND AS INDICATED

B. INSTALL EQUIPMENT IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, MANUFACTURER'S RECOMMENDATIONS,

C. PROVIDE EQUIPMENT SUPPORTS AND/OR MOUNTINGS AS INDICATED ON THE DRAWING, IN VIBRATION

1. ROOF MOUNTED EQUIPMENT - PROVIDE PRE-FABRICATED ISOLATED ROOF CURB WITH INTEGRAL VIBRATION

2. CEILING MOUNTED EQUIPMENT – PROVIDE SUPPORTS WITH APPROVED SUITABLE ANCHORS SUSPENDED

3. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE EQUIPMENT LOAD.

D. EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATION, REFER TO VIBRATION ISOLATION SECTION.

A) GRILLES, REGISTERS AND DIFFUSERS SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-1991 OR LATEST EDITION. THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR ALL AIR INLETS AND OUTLETS TO BE USED ON PROJECT AS PART OF THE SUBMISSION.

B) THE MECHANICAL CONTRACTOR TO COORDINATE THE LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH OTHER TRADES AND WITH CEILING AND WALL CONSTRUCTION. THE MECHANICAL CONTRACTOR IS TO VERIFY THAT ALL DIFFUSERS, GRILLES AND REGISTERS ARE COMPATIBLE WITH CEILING CONSTRUCTION

C) COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, LENGTHS AND FOR FRAMING AND MITERING ARRANGEMENTS THAT MAY DIFFER FROM THOSE SHOWN ON HVAC DRAWINGS. PROVIDE ALL REQUIRED GENERAL CONSTRUCTION, FRAMING, BLOCKING, PLASTERING AND SUPPORTS TO MATCH CEILING, SOFFIT OR WALL CONSTRUCTION AS PART

D) INLETS AND OUTLETS SHALL HANDLE AIR QUANTITIES INDICATED AT OPERATING VELOCITIES WITH SOUND PRESSURE LEVEL NOT TO EXCEED NC-30, UNLESS NOTED OTHERWISE.

E) DIFFUSERS, GRILLES AND REGISTERS SHALL BE INSTALLED WITH FACES SET LEVEL AND PLUM AND

F) ALL AIR INLETS AND OUTLETS SHALL BE STEEL OR ALUMINUM CONSTRUCTION. USE ALUMINUM FOR APPLICATIONS EXPOSED TO MOISTURE. FINISHES TO BE SELECTED BY THE ARCHITECT.

G) DIFFUSERS, GRILLES AND REGISTERS SHALL BE MANUFACTURED BY TITUS, PRICE, ANEMOSTAT OR

H) SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF ALL AIR INLETS AND OUTLETS TO BE USED ON PROJECT INCLUDING MANUFACTURER'S MODELS, SIZES, PERFORMANCES, ACCESSORIES, ACOUSTIC INFORMATION, FINISHES, ETC., BEFORE RELEASE FOR FABRICATION. NOTE ANY DEVIATIONS FROM

A) PROVIDE DIFFUSERS, GRILLES AND REGISTERS FOR SUPPLY, RETURN AND EXHAUST INLETS AND

C) ALL SUPPLY, RETURN, AND EXHAUST AIR REGISTERS SHALL BE PROVIDED WITH AN OPPOSED BLADE

D) SUPPLY REGISTERS SHALL HAVE TWO SETS OF DIRECTIONAL CONTROL BLADES.

E) ONLY 4-WAY DIFFUSERS SHALL BE USED. PROVIDE BLANK-OFF SHEETMETAL BAFFLE FOR ALL 1-WAY,

F) ALL LINEAR DIFFUSERS SHALL BE PROVIDED WITH CABLE OPERATED OPPOSED BLADE DAMPER ADJUSTABLE THROUGH THE FACE OF THE DIFFUSER. DAMPERS AND PLENUM TAPS SHALL BE SPACED AT A MAXIMUM OF 4 FEET ON CENTER. PROVIDE DIFFUSERS WITH ADJUSTABLE AIR PATTERN CONTROL

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File Name: N/A



Client/Project Logo



Client/Project **NEW ROCHELLE** 

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE,

NEW ROCHELLE, NY 10801 Title

# MECHANICAL SPECIFICATIONS

Project No. 191506465 Scale NONE



Revision

- 1. FURNISH AND INSTALL AS HEREIN SPECIFIED, A COMPLETE AUTOMATIC TEMPERATURE CONTROL SYSTEM OF THE DIGITAL STANDALONE TYPE.
- 2. ALL TEMPERATURE CONTROL SYSTEMS AND COMPONENTS UNDER THIS SUBCONTRACT ARE TO BE FULLY MODULATING TYPE, EXCEPT WHERE NOTED OTHERWISE. THE SYSTEM SHALL BE COMPLETE IN ALL RESPECTS INCLUDING ALL ASSOCIATED CONTROL EQUIPMENT, THERMOSTATS, CONTROL VALVES, VALVE ACTUATORS, DAMPER OPERATORS, RELAYS, PILOT POSITIONERS, CONTROL WIRING, CONTROL AIR PIPING, SWITCHES, INTERLOCK WIRING, ELECTRICAL OR PNEUMATIC CONTROL COMPONENTS AND ASSOCIATED PIPING OR WIRING, APPURTENANCES, ETC., TO PROVIDE THE FUNCTIONS DESCRIBED IN THESE SPECIFICATIONS AND PLANS, REGARDLESS OF WHETHER OR NOT SAID DEVICE RELAY, ETC. IS SPECIFICALLY MENTIONED HEREAFTER.
- 3. THE SYSTEM SHALL BE SUPERVISED AND CHECKED OUT COMPLETELY IN ALL RESPECTS BY COMPETENT MECHANICS, REGULARLY EMPLOYED BY THE MANUFACTURER.
- 4. ALL CONTROLS MUST BE THE PRODUCT OF ONE MANUFACTURER. ALL AUTOMATIC CONTROL VALVES, SENSORS AND DAMPER OPERATORS SHALL BE MANUFACTURED BY THE TEMPERATURE CONTROL MANUFACTURER.
- 5. THE CONTROL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DESCRIPTION OF SYSTEM OPERATIONS AND/OR DETAIL INFORMATION SHOWN ON THE PLANS AND AS DESCRIBED HEREIN.
- A) THE MANUFACTURER OF THE AUTOMATIC CONTROL EQUIPMENT SHALL SUBMIT THE FOLLOWING FOR APPROVAL: A SCHEMATIC DIAGRAM OF EACH CONTROL SYSTEM WHICH SHALL INDICATE THE PROPER SEQUENCE OF OPERATION AND RANGE OF THE CONTROLS FOR ALL CYCLES. PROVIDE A COMPLETE DESCRIPTION OF THE AUTOMATIC OPERATION OF EACH SYSTEM. THE DESCRIPTION SHOULD INCLUDE THE DUTY OF EACH THERMOSTAT, VALVE, SWITCH, ETC., INCORPORATED IN THE CONTROL SYSTEM WITH A SCHEDULE AND ILLUSTRATION OF ALL CONTROL INSTRUMENTS AND EQUIPMENT INCLUDING CONTROL PANELS AND DEVICES FOR EACH SYSTEM.
- B. ELECTRIC WIRING:
- 1. ALL ELECTRICAL WORK (EXCEPT FOR MOTOR FEEDERS, WIRING BETWEEN MOTORS, MOTOR CONTROLLERS, FEEDER PANELS, FUSES, CIRCUIT BREAKERS AND BUS BARS) REQUIRED FOR THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THIS CONTRACTOR. WORK SHALL INCLUDE BUT NOT BE LIMITED TO TIME SWITCHES, DAMPER MOTORS, DAMPER SWITCHES, ELECTRIC THERMOSTATS, ELECTRIC RELAYS, E/P SWITCHES, INTERLOCKING WIRING, WIRE, CONDUIT, ETC.
- 2. ALL 115 VOLT POWER REQUIRED FOR CONTROL PURPOSES SHALL BE PROVIDED BY THE CONTROL CONTRACTOR FROM A SOURCE ESTABLISHED BY THE ELECTRICAL CONTRACTOR.
- 3. THE CONTROL MANUFACTURER SHALL INCLUDE WIRING DIAGRAMS IN HIS SHOP DRAWINGS SUBMITTALS FULLY COORDINATED WITH THE ELECTRICAL CONTRACTOR'S WORK. IT SHALL BE THE AUTOMATIC TEMPERATURE CONTROL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL WIRING AND CONDUIT AS REQUIRED TO ACHIEVE THE FUNCTION CALLED FOR IN THESE SPECIFICATIONS, CONFORMING WITH LOCAL CODES FOR MATERIAL AND INSTALLATION. THE ELECTRICAL SPECIFICATION FOR THE PROJECT'S ELECTRICAL WORK IS TO BE FOLLOWED.
- 4. FURNISH A CERTIFICATE INDICATING THE METHOD OF WIRING COMPLIANCE WITH LOCAL CODES AS PART OF THE FIRST SHOP DRAWING SUBMITTAL.
- D. ROOM THERMOSTAT AND SWITCH LOCATIONS:
- 1. ALL ROOM THERMOSTATS AND SWITCH LOCATIONS (WHETHER SHOWN ON PLANS OR NOT) SHALL BE SELECTED AND SUBMITTED BY THE TEMPERATURE CONTROL MANUFACTURER FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ACTUAL INSTALLATION.
- 2. EACH PROGRAMMABLE THERMOSTAT SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR AT LEAST 10 HOURS.
- 3. THE PROGRAMMABLE THERMOSTAT SHALL BE CAPABLE OF MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2-HOURS.
- 4. EACH PROGRAMMABLE THERMOSTAT SHALL INCLUDE MANUAL SET POINT ADJUSTMENT BY THE ROOM OCCUPANT.
- 5. HEATING AND COOLING THERMOSTATS SHALL BE PROVIDED WITH A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 3'F.
- 6. COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.
- 7. LABEL EACH THERMOSTAT AND SWITCH WITH THE BMS DESGINATION FOR THE EQUIPMENT SERVED (I.E. VAV-3-7).
- E. AUTOMATIC DAMPERS:
- 1. PROVIDE CONTROLS FOR ALL THE AUTOMATIC DAMPERS, AS SPECIFIED IN THE DUCTWORK SECTION, AND SHOWN ON THE DRAWINGS.
- 2. CONTROL MOTORS OR ACTUATORS SHALL BE OF THE ELECTRONIC OR PNEUMATIC TYPE. UNLESS OTHERWISE NOTED, OF APPROPRIATE SIZES AND QUANTITIES TO PROVIDE TWO-POSITION OR PROPORTIONING CONTROL ACTION AS SPECIFIED. PROPORTIONING TYPE SHALL BE EQUIPPED WITH PILOT TYPE POSITIONERS. PILOT POSITIONERS SHALL BE SELECTED FOR VARIED SPRING RANGES AND ADJUSTABLE WITHOUT DISMANTLING POSITIONER AND CONTROL MOTOR.
- 3. AUTOMATIC DAMPERS EXPOSED TO THE ELEMENTS SHALL HAVE ELECTRIC ACTUATORS WITH ALL REQUIRED ACCESSORIES.
- F. SEQUENCE OF OPERATIONS:
- 1. GENERAL
- A) ALL SAFETY DEVICES SHALL BE HARDWIRED TO THE MOTOR CONTROLLER.
- B) ALARMING DEVICES SHALL BE WIRED SO THAT CONTACTS ARE OPEN IN THE ALARM CONDITION.
- C) ALL CONTROL DEVICES EXPOSED TO OUTDOOR AIR CONDITIONS SHALL BE SPECIFICALLY DESIGNED BY MANUFACTURER FOR OUTSIDE AIR CONDITIONS, INCLUDING BUT NOT LIMITED TO WEATHERPROOF NEMA 3R ENCLOSURES.
- D) WHEN A MOTOR CONTROLLER IS EQUIPPED WITH A HAND-OFF-AUTO (HOA) SWITCH, THE MOTOR SHALL ONLY BE CONTROLLED BY EXTERNAL SIGNAL WHEN THE SWITCH IS IN THE "AUTO" POSITION.
- E) PRESSURE SAFETIES, INTERLOCKED DAMPERS, FREEZESTATS, FIRE ALARM SYSTEM DEVICES, ETC. SHALL BE HARDWIRED TO THE MOTOR CONTROLLER TO SHUT DOWN MOTORS WHEN THE HOA IS IN "HAND" AND "AUTO" POSITIONS. OVERRIDE OF SAFETIES SHALL NOT BE POSSIBLE, EXCEPT FOR FIRE ALARM SYSTEM OVERRIDE OF FREEZESTATS FOR SMOKE CONTROL FUNCTIONS.
- F) WHERE FANS AND DAMPERS ARE TO BE HARDWIRE INTERLOCKED, PROVIDE CONTROL WIRING BETWEEN THE FAN MOTOR TERMINAL STRIP AND DAMPER, SUCH THAT THE DAMPER MUST BE OPEN, AS DETECTED BY AN END SWITCH, BEFORE THE MOTOR IS ENERGIZED. HARDWIRE INTERLOCK SHALL FUNCTION WHEN THE MOTOR CONTROLLER HOA SWITCH IS IN "HAND" AND "AUTO" POSITIONS.
- G) THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL POINTS, DEVICES, SENSORS, AND CONTROL WIRING NECESSARY TO ACCOMPLISH THE SPECIFIED SEQUENCES OF OPERATIONS. ALL POINTS REQUIRED TO PROVIDE THE SEQUENCE OF OPERATIONS SHALL BE INCLUDED IN THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR 'S BID AS IF LISTED.
- H) IN THE CASE OF A DISCREPANCY, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.
- 2. DX SPLIT SYSTEM HEAT PUMPS AND AIR CONDITIONING UNITS

- SENSOR, WALL-MOUNTED CONTROLLER, ETC.
- INTERFACE TO THE UNIT.
- EXTERNAL DRIP PAN BELOW EACH UNIT.
- COORDINATE SPECIFIC DRY CONTACT WITH THE SECURITY CONTRACTOR.
- SETPOINTS IN AND OCCUPANCY SCHEDULES.
- 75°F (ADJ), AND HEATING SETPOINT SHALL BE 75°F (ADJ).
- 65°F (ADJ).
- CLOSED.
- 3. TOILET EXHAUST FANS
- A) UNIT SHALL BE PROVIDED WITH PROGRAMMABLE TIME CLOCK 4. FIRST FLOOR LOCKER EXHAUST FAN
- A) UNIT SHALL BE PROVIDED WITH PROGRAMMABLE TIME CLOCK 5. INLINE DIRECT FIRED HEATER
- A) UNITS SHALL BE PROVIDED WITH PROGRAMMABLE TIME CLOCK

A) THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL MOUNT AND WIRE ALL CONTROL COMPONENTS THAT ARE SHIPPED WITH THE UNIT THAT ARE NOT FACTORY INSTALLED. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE MANUFACTURER-SUPPLIED WALL MOUNTED TEMPERATURE

B) THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH, MOUNT, AND WIRE ANY ADDITIONAL COMPONENTS NOT PROVIDED BY THE UNIT MANUFACTURER TO ACHIEVE A COMPLETELY OPERATIONAL SYSTEM. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ANY DEVICES REQUIRED TO

C) THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE A LEAK DETECTOR IN THE

1) LEAK DETECTOR SHALL BE HARDWIRE INTERLOCKED TO SHUT DOWN THE AC UNIT COMPRESSOR.

D) A "COMMON ALARM" DRY CONTACT OUTPUT AT THE UNIT SHALL BE HARDWIRED BY AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR TO A DRY CONTACT AT THE TENANT'S SECURITY PANEL.

E) THE UNIT SHALL OPERATE AS PER THE MANUFACTURER PROVIDED CONTROLS AND SEQUENCE OF OPERATION DESCRIBED BELOW. PROVIDE ALL NECESSARY PROGRAMMING FOR THE MANUFACTURER'S PACKAGED CONTROLS, INCLUDING SPACE TEMPERATURE HEATING/COOLING OCCUPIED/UNOCCUPIED

F) DURING OCCUPIED HOURS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY, COOLING SETPOINT SHALL BE

G) DURING UNOCCUPIED HOURS, THE SUPPLY FAN SHALL CYCLE UPON CALL FOR COOLING OR HEATING BUT OTHERWISE BE OFF, COOLING SETPOINT SHALL BE 85°F (ADJ), AND HEATING SETPOINT SHALL BE

H) FOR ANY HEAT PUMPS AND AIR CONDITIONING UNITS WITH OUTSIDE AIR INTAKE DUCTWORK, PROVIDE A MOTORIZED DAMPER IN THE OUTSIDE AIR DUCT, HARDWIRE INTERLOCKED TO OPEN WHEN THE SUPPLY FAN IS RUNNING AND OTHERWISE CLOSE. THE ACTUATOR TYPE SHALL BE POWERED OPEN, FAIL



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Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

 JMR
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 2022.01.12

 JMR
 KF
 2020.01.15

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491 5TH AVE, NEW ROCHELLE, NY 10801 Title

MECHANICAL SPECIFICATIONS

Project No. 191506465

Revision

Scale NONE Drawing No.



(NOT AL	L ABBREVIATIONS SHOWN ARE NECESSARILY USED ON THIS PROJECT)
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
C0	CLEANOUT
CODP	CLEANOUT DECKPLATE
CM	COFFEE MAKER
CLG	CEILING
CONN	CONNECT / CONNECTION
CONT	CONTINUE / CONTINUATION
CV	CHECK VALVE
CVO	CAPPED VALVED OUTLET
CW	DOMESTIC COLD WATER
	DIAMETER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER
DCV	DOUBLE CHECK VALVE BACKFLOW PREVENTER
DN	DOUBLE CHECK VALVE BACKFLOW PREVENTER DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DW	DISHWASHER
DWG	DISHWASHER
EX	EXISTING
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FL	FLOOR
FLS	FLOOR SINK
FT	FEET
FU	FIXTURE UNIT(S)
G	GAS
GV	GATE VALVE
GAL	GALLONS
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
НВ	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
IM	ICE MACHINE
IN	INCH
IW	INDIRECT WASTE
JS	JANITOR'S SINK
LAV	LAVATORY
MAX	MAXIMUM
MB	MANUFACTURED BY
MIN	MINIMUM
	NOT APPLICABLE
N/A	1
	NORMALLY CLOSED
NC	NORMALLY CLOSED NOT IN CONTRACT
NC	
NC NIC NTS	NOT IN CONTRACT
N/A NC NIC NTS PRV PSI	NOT IN CONTRACT NOT TO SCALE
NC NIC NTS PRV PSI	NOT IN CONTRACT NOT TO SCALE PRESSURE REDUCING VALVE
NC NIC NTS PRV PSI RPZ	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE
NC NIC NTS PRV PSI RPZ S	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER
NC NIC NTS PRV PSI RPZ S SH	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL
NC NIC NTS PRV PSI RPZ S SH SK	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER
NC NIC NTS PRV PSI RPZ S SH SK SQFT	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK
NC NIC NTS PRV PSI RPZ S SH SK SQFT TYP	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK         SQUARE FEET         TYPICAL
NC NIC NTS PRV PSI RPZ S SH SK SQFT TYP UON	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK         SQUARE FEET         TYPICAL         UNLESS OTHERWISE NOTED
NC NIC NIC NTS PRV PSI RPZ S SH SK SQFT TYP UON UP	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK         SQUARE FEET         TYPICAL         UNLESS OTHERWISE NOTED         UP (PENETRATES FLOOR SLAB)
NC NIC NTS PRV	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK         SQUARE FEET         TYPICAL         UNLESS OTHERWISE NOTED         UP (PENETRATES FLOOR SLAB)         URINAL
NC NIC NIC NTS PRV PSI RPZ S SH SK SQFT TYP UON UP UR V	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK         SQUARE FEET         TYPICAL         UNLESS OTHERWISE NOTED         UP (PENETRATES FLOOR SLAB)         URINAL         VENT
NC NIC NIC NTS PRV PSI RPZ S SH SK SQFT TYP UON UP UR V VB	NOT IN CONTRACTNOT TO SCALEPRESSURE REDUCING VALVEPOUNDS PER SQUARE INCH - GAUGEREDUCED PRESSURE ZONE BACKFLOW PREVENTERSANITARY/SOILSHOWERSHOWERSQUARE FEETTYPICALUNLESS OTHERWISE NOTEDUP (PENETRATES FLOOR SLAB)URINALVENTVACUUM BREAKER
NC NIC NIC NTS PRV PSI RPZ S SH SK SQFT TYP UON UP UR V	NOT IN CONTRACT         NOT TO SCALE         PRESSURE REDUCING VALVE         POUNDS PER SQUARE INCH – GAUGE         REDUCED PRESSURE ZONE BACKFLOW PREVENTER         SANITARY/SOIL         SHOWER         SINK         SQUARE FEET         TYPICAL         UNLESS OTHERWISE NOTED         UP (PENETRATES FLOOR SLAB)         URINAL         VENT

	SYMBOL
(NOT ALL SYMBOLS	
S	SANITARY/SOIL P
W	WASTE PIPING
	INDIRECT WASTE
ED	EJECTOR PUMP
SD	SUMP PUMP DIS
ST	STORM WATER P
	VENT PIPING
·	DOMESTIC COLD
	DOMESTIC HOT W
	DOMESTIC HOT W
G	NATURAL GAS PI
¢	ARROW REPRESE
<u></u>	PIPING WITH FRE
	BURIED SANITARY
X X X X X	PIPING TO BE DI
<b>_</b>	PIPE BREAK
<b>`</b>	CAPPED OUTLET
+	CLEANOUT / PLU
	FRESH AIR INLET
©	CLEANOUT DECK
x	P-TRAP
	HOSE BIBB
<b>`</b> `	PIPE DROP / DO
0	PIPE RISE / UP
	PIPE BOTTOM CC
	PIPE TOP CONNE
(9)	PIPE SIDE CONN
Ψ 	VACUUM BREAKE
<u></u>	SHOCK ARRESTO
00	HOUSE TRAP
©	PUMP
¥	VENT THROUGH
	WATER METER
÷	WATERPROOF SLI
	UNION
φ	PRESSURE GAUG
φ	TEMPERATURE GA
т Т	TAMPER SWITCH
E	FLOW SWITCH
P	PRESSURE SWITC
M	CHECK VALVE
6	BALL VALVE
Ŧ	GATE VALVE
÷	PLUG VALVE
弦	MIXING VALVE
菡	OUTSIDE SCREW
×	PRESSURE REDU
Ŕ	SOLENOID VALVE
8	GAS PRESSURE
-	WALL HYDRANT
•	POINT OF DISCO
•	POINT OF CONNE
Ê	PLUMBING RISER
Ś	GAS RISER DESIG
$\bigcirc$	STORM RISER DE

С

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ORIGINAL SHEET - ARCH D

SYMBOL LIST	GENERAL NOTES
SHOWN ARE NECESSARILY USED ON THIS PROJECT)	(NOT ALL NOTES SHOWN ARE NECESSARILY APPLICABLE TO THIS PROJECT)
SANITARY/SOIL PIPING	1. ALL REFERENCES HEREIN TO THE CONTRACTOR SHALL REFER TO THE PLUMBING CONTRACTOR
WASTE PIPING	UNLESS OTHERWISE NOTED.
INDIRECT WASTE PIPING	2. THE ENTIRE INSTALLATION SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE EXACT
EJECTOR PUMP DISCHARGE PIPING	LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO MAKING NEW CONNECTIONS TO EXISTING LINES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
SUMP PUMP DISCHARGE PIPING	3. DO NOT SCALE FROM THESE DRAWINGS.
STORM WATER PIPING	4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN A DISTANCE OF FIVE FEET FROM
VENT PIPING	THE BUILDING PERIMETER.
DOMESTIC COLD WATER PIPING	5. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
DOMESTIC HOT WATER PIPING	6. THE CONTRACTOR SHALL REFER TO WRITTEN SPECIFICATION IN CONJUNCTION WITH THESE DRAWINGS FOR FULL PROJECT SCOPE.
DOMESTIC HOT WATER RECIRCULATION PIPING	7. THE CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST TO VERIFY THE AVAILABLE WATER
NATURAL GAS PIPING	SUPPLY PRESSURE PRIOR TO ANY PURCHASING OF EQUIPMENT, FABRICATION OR INSTALLATION.
ARROW REPRESENTS DIRECTION OF FLOW	8. ANY DISCREPANCIES OR INADEQUACIES WITHIN BID DOCUMENTS, BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR,
PIPING WITH FREEZE PROTECTION CABLE UNDER INSULATION	AND STRUCTURAL BID DOCUMENTS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
BURIED SANITARY/SOIL, WASTE, VENT, OR STORM PIPING	9. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS BUILT" DRAWINGS INDICATING
PIPING TO BE DEMOLISHED	THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, EXPOSED PIPING, PIPING CONNECTIONS, AND ACCESS PANELS/DOORS. THESE DRAWINGS SHALL INCLUDE ALL
PIPE BREAK	CHANGES AND DEVIATIONS FROM CONSTRUCTION DOCUMENTS.
CAPPED OUTLET	10. THE CONTRACTOR SHALL SCHEDULE ALL WORK TO AVOID INTERFERENCE WITH FIRE PROOFING WORK.
CLEANOUT / PLUGGED OUTLET	11. PLATFORMS, CURBS, SUMP/EJECTOR PITS, HOUSE TRAP PITS, AND GREASE INTERCEPTOR PITS FOR
FRESH AIR INLET	PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE EXACT SIZES AND
CLEANOUT DECK PLATE	LOCATIONS OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT. 12. THE CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING LOCATIONS AND INVERTS WITH
P-TRAP	ALL UTILITIES.
HOSE BIBB	13. THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL FURNISH
PIPE DROP / DOWN	PLUMBING EQUIPMENT WIRED FOR THE VOLTAGES SHOWN IN CONTRACT DOCUMENTS AND COORDINATED WITH ELECTRICAL CONTRACTOR.
PIPE RISE / UP	14. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S
PIPE BOTTOM CONNECTION	RECOMMENDATIONS AND ALL APPLICABLE CODES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
	15. THE CONTRACTOR SHALL SUBMIT, PRIOR TO ANY FABRICATION OR INSTALLATION, ALL NECESSARY DRAWINGS, EQUIPMENT/MATERIAL PRODUCT DATA, DOCUMENTATION, AND CALCULATIONS REQUIRED
	TO COMPLETE THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.
VACUUM BREAKER SHOCK ARRESTOR	16. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO ANY FABRICATION OR INSTALLATION. ALL FEES FOR PERMITS AND
DRAIN	INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
HOUSE TRAP	17. ALL ABOVE GRADE PIPING SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE. NO PIPING SHALL REST ON CEILING TILES OR CEILING STRUCTURE.
PUMP	18. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT AND IN THE MOST INCONSPICUOUS LOCATION POSSIBLE. VERTICAL DROPS SHOULD BE KEPT TO A
VENT THROUGH ROOF	MINIMUM AND SHOULD BE LOCATED WITHIN CHASES, WALLS, AND SOFFITS WITH OTHER MECHANICAL PIPING AND ELECTRICAL CONDUITS WHEN POSSIBLE. ALL SUCH LOCATION ARE TO BE REVIEWED
WATER METER	WITH THE ARCHITECT PRIOR TO INSTALLATION.
WATERPROOF SLEEVE	19. WATER METER SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND SHALL BE PROVIDED WITH REMOTE READING.
UNION	20. THE CONTRACTOR SHALL PROVIDE ALL CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS, AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
PRESSURE GAUGE	21. THE CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ASSOCIATED FLASHING
TEMPERATURE GAUGE	REQUIREMENTS WITH OTHER TRADES.
TAMPER SWITCH	22. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL HORIZONTAL STORM
FLOW SWITCH	WATER PIPING.
PRESSURE SWITCH	23. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN SHUTOFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
CHECK VALVE	24. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS/DOORS FOR ALL CLEANOUTS, VALVES, AND ANY
BALL VALVE	OTHER EQUIPMENT LOCATED WITHIN WALLS, PARTITIONS, OR CEILINGS THAT REQUIRE ACCESS FOR MAINTENANCE AND/OR OPERATION.
GATE VALVE	25. THE CONTRACTOR SHALL INSTALL TRAP SEAL PRIMERS ON ALL FLOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE NECESSARY COLD WATER CONNECTION TO ALL TRAP SEAL
PLUG VALVE	PRIMERS.
MIXING VALVE	26. THE CONTRACTOR SHALL PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY, WASTE, STORM, AND VENT STACKS. CLEANOUT DECK PLATES PLATES MUST ALSO BE PROVIDED ON ALL BURIED
OUTSIDE SCREW & YOKE VALVE	SANITARY, WASTE, AND STORM PIPING AT INTERVALS OUTLINED IN APPLICABLE CODE.
PRESSURE REDUCING VALVE	27. SUDS PRESSURE ZONE REQUIREMENTS SHALL BE MEET IN THE DESIGN OF THE SANITARY, WASTE, AND VENT SYSTEMS. NO CONNECTION SHALL BE MADE TO THE VERTICAL PORTION OF A SANITARY OR WASTE STACK WITHIN FORTY STACK DIAMETERS OF THE BASE FITTING. NO CONNECTION SHALL
SOLENOID VALVE	BE MADE TO THE HORIZONTAL OFFSET PORTION OF A SANITARY OR WASTE STACK WITHIN TEN STACK DIAMETERS OF THE BASE FITTINGS.
GAS PRESSURE REGULATOR	28. NO DRAINAGE BRANCH SHALL BE CONNECTED TO A SANITARY OR WASTE STACK WITHIN TWO FEET
WALL HYDRANT	ABOVE OR BELOW A HORIZONTAL OFFSET EXCEPT WHERE NO OTHER DRAINAGE BRANCH IS CONNECTED TO THE STACK AT A HIGHER STORY.
POINT OF DISCONNECTION FROM EXISTING PIPING	29. THE CONTRACTOR SHALL PROVIDE REDUCING FITTING AT ALL CHANGES IN DIAMETER OF SANITARY,
POINT OF CONNECTION TO EXISTING PIPING	WASTE, AND STORM PIPING. 30. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO ALL EQUIPMENT AND
PLUMBING RISER DESIGNATION     P     RISER NUMBER       GAS RISER DESIGNATION     G     RISER NUMBER	FIXTURE INDICATED ON THE ARCHITECTURAL AND PLUMBING DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO HVAC AND FIRE PROTECTION EQUIPMENT.
STORM RISER DESIGNATION	31. GAS METER ASSEMBLIES INCLUDING VALVES, PIPING, VENTS, AND ALL APPURTENANCES SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
	32. THE CONTRACTOR SHALL PROVIDE NOT LESS THAN A TWO ELBOW SWING ON ALL BRANCH PIPE CONNECTIONS TO A GAS RISER. BRANCH PIPE CONNECTIONS TO A HORIZONTAL GAS LINE SHALL BE MADE FROM THE TOP OR SIDES AND NOT FROM THE BOTTOM.

- 33. ALL GAS RISER SHUTOFF VALVES SHALL BE LOCKSHEILD TYPE WITH 1/8" TEST CONNECTION
- 34. ALL GAS SHUTOFF VALVES ARE TO BE LOCATED IN NONCONCEALED SPACES.

DOWNSTREAM OF VALVE.

35. THE CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL GAS FIRED EQUIPMENT/APPLIANCES, REGARDLESS OF WHO PROVIDED THE EQUIPMENT/APPLIANCE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO HVAC EQUIPMENT, COOKING EQUIPMENT/APPLIANCES, EMERGENCY GENERATORS, AND DOMESTIC HOT WATER HEATERS. EACH PIECE OF EQUIPMENT/APPLIANCE SHALL BE PROVIDED WITH A DIRT LEG, LUBRICATED PLUG VALVE, UNION, AND PRESSURE REGULATOR (WHERE REQUIRED).

## DEMOLITION NOTES

RESTORED.

Sheet Number

-001 -002

P-101 P-401

P-402

STANDARDS.

(NOT ALL NOTES SHOWN ARE NECESSARILY APPLICABLE TO THIS PROJECT)

1. THE CONTRACTOR SHALL INCLUDE IN THEIR PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.

2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.

3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND

4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.

5. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.

6. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

7. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.

8. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.

9. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.

10. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.

11. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

PLUMBING DRAWING LIST							
Sheet Title							
PLUMBING COVER PAGE							
PLUMBING SCHEDULES							
PLUMBING GROUND & FIRST FLOOR DEMOLITION PLANS							
PLUMBING GROUND & FIRST FLOOR PLANS							
PLUMBING DETAILS							
PLUMBING DETAILS & SPECIFICATIONS							

## NEW YORK STATE CODES & STANDARDS

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FUEL GAS CODE
2017 NYS UNIFORM CODE SUPPLEMENT
LOCAL FIRE DEPARTMENT/FIRE MARSHAL

ALL OTHER LOCAL AUTHÓRITIES HAVING JURISDICTION

# NEW YORK STATE ENERGY CODES

### • 2015 INTERNATIONAL ENERGY CONSERVATION CODE

2013 ASHRAE 90.1
2016 SUPPLEMENT TO THE NEW YORK STATE ENERGY CONSERVATION CODE (REVISED AUGUST 2016)

LOCAL CODES

• NEW ROCHELLE MUNICIPAL CODE

## REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE

	2013 NPFA 1.3 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
•	ZUTJ NETA TJ - JTANDAND FUN THE INJTALLATION OF SEMINALEN STATEMS
•	2013 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
•	2013 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
•	2014 NFPA 70 – NATIONAL ELECTRICAL CODE
٠	2013 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE



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ISSUED FOR BID		JME	KF	2020.01.15
Issued		Ву	Appd	YYYY.MM.DD
File Name: N/A	JME	JME	KF	

Dwn. Dsgn. Chkd. YYYY.MM.DD

### Permit/Seal



Client/Project Logo



Client/Project NEW ROCHELLE

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE,

NEW ROCHELLE, NY 10801 Title

PLUMBING COVER PAGE

Project No. 191506465

Scale NONI

Revision

NONE Drawing No.

**P-001** 

_			1					2						3				4				5	
	DRAIN SCHEDULE									FIXTURE SCHEDULE													
'	.1	(NOT ALL DRAINS SHOWN ARE NECESSARILY USED ON THIS PROJECT)										FIXTURE SPECIFICATION			SERVICE C	CONNECTIONS		· / '					
	. [	DRAIN BODY SPECIFICATION STRAINER SPECIFICATION						DESIGNATION	COMPONENT	MANUFACTURER	MODEL NUMBER	S W	V	CW HW	ADDITIONAL COMMENTS								
					) STEEL DEVICE Y CLAMP EIVER EIVER STANT COATING	D CONNECTION	ONZE STEEL	Lated Finish Sh Y strainer	BUCKET E E	ATE SRATE	e l				WC-1 (ADA)	WATER CLOSET FLUSH VALVE SEAT CARRIER	ACORNS SLOAN KOHLER JAY R. SMITH	1695-T-3-1.28-FVBO-ADA 8113-1.28 K-4731-GC-0 400 SERIES	- 4"	2"	11⁄2"	<ul> <li>ADA COMPLIANT, FLOOR MOUNTE HIGH EFFICIENCY FLUSH VALVE</li> <li>PROVIDE 1.28 GPF DC FLUSH V PROVIDE OPEN FRONT SOFT CL</li> </ul>	E TOILET. VALVE.
D	DESIGNATION FD-1	MANUFACTURE JAY R. SMITH		BRONZE BRONZE CAST IRON CALVANIZED	STAINLESS STAINLESS CLAMPING SECONDARY SECONDARY SUMP REC ACID RESI	<ul> <li>TRAP Primi</li> <li>BRONZE</li> <li>CAST IRON</li> <li>CAST IRON</li> </ul>	STAINLESS	CHRUML CHRUML SATIN FINIS	SEDIMENT E LESS GRAT HALF GRAT	FLUSH GRA	FLAT TOP FUNNEL TC DOME	EXTENSION     ADJUSTABL	APPLICABLE AREAS		wc	WATER CLOSET FLUSH VALVE SEAT CARRIER	ACORNS SLOAN KOHLER JAY R. SMITH	1695-T-3-1.28-FVB0 8113-1.6 K-4731-GC-0 400 SERIES	4"	2"	1½"	<ul> <li>FLOOR MOUNTED, ELONGATED B FLUSH VALVE TOILET.</li> <li>PROVIDE 1.28 GPF DC FLUSH V PROVIDE OPEN FRONT SOFT CL</li> </ul>	VALVE.
	2. ALL FLOOR	OR DRAINS IN MEC	IECHANICAL EQUIPMEN	ENT ROOMS, BOILER ROO	HALL BE LOCATED AS PER THE A	L BE LOCATED IN COO	COORDINATION W								LAV (ADA)	LAVATORY FAUCET DRAIN P-TRAP	ACORNS CHICAGO MCGUIRE MANUFACTURING MCGUIRE MANUFACTURING	1950–1–9–H24 895–317–E2805–5ABCP PW155WC PW2125	1½	." 1½"	1/2" 1/2"	<ul> <li>ADA COMPLIANT, WALL HUNG. R</li> <li>BASIN.</li> <li>PROVIDE CHROME PLATED BRAS ASSEMBLY FOR ALL TOILET ROC</li> <li>GOOSENECK FAUCET W/ 4" WR</li> <li>0.50 GPM NON AERATED FLOW</li> <li>4" FAUCET HOLD CTRS</li> </ul>	ASS LAVATORY GRID DRAIN DOM LOCATION. RIST BLADE HANDLES.
	4. THE TOP O 5. PROVIDE T	OF ALL FLOOR D	DRAINS SHALL BE FL MOD# M-500 AS MA	FLUSH WITH THE ADJACE	INS WITH THE APPROVED ROOFING ACENT FINISHED FLOOR. MIFAB ON ALL FLOOR DRAINS U	·						VIDE ½"(	CW CONNECTION		SH (ADA)	SUPPLY SHOWER STALL SHOWER HEAD DRAIN P-TRAP	MCGUIRE MANUFACTURING AQUARIUS SYMMONS MCGUIRE MANUFACTURING MCGUIRE MANUFACTURING	H170–LK G–3698–BF ALLURA 4701–VP PW155WC PW8902	3"	11/2"	1⁄2" 1⁄2"	<ul> <li>ADA COMPLIANT, ONE PIECE, SH</li> <li>CURTAIN ROD, GRID STRAINER E FOLD UP SEAT</li> <li>PROVIDE PRESSURE BALANCE M INTERGRAL SERVICE STOPS &amp; A LIMIT HANDLE TURN.</li> <li>PROVIDE COLLAPSEABLE NEOPRI</li> </ul>	ADJUSTABLE STOP SCREW TO
					PIPE, FITTING, AN (NOT ALL PIPE, FITTING, AND JOI										SK	SINK FAUCET	ELKAY CHICAGO	CR3122 895-317-E2805-5ABCP	-			<ul> <li>ADA COMPLIANT, STAINLESS STE</li> <li>PROVIDE FAUCET DRAIN ASSEME STOPS ESCUTCHEN COVER. PRO</li> </ul>	IBLY TAILPIECE, SUPPLIES, ROVIDE BASKET STRAINER, DRAIN
	PIPING SYSTEM	м	PIPING LOCATION	· · · · · · · · · · · · · · · · · · ·	PIPING SPECIFICATION		ï	TING SPECIFICATION	•		JOINT SPECIFIC	JIFICATION			SK (ADA)	DRAIN	MCGUIRE MANUFACTURING	PW155WC	- 1½'	." 1½"	1⁄2" 1⁄2"	BOWL ASSEMBLY. FOR USE WITH - GOOSENECK FAUCET W/ 4" WR - 0.50 GPM NON AERATED FLOW	ITH ELKAY MOD LKAD35. RIST BLADE HANDLES.
C	SANITARY / WA:		BELOW GROUND		SERVICE WEIGHT HUB & SPI	,PIGOT CAST IRON		RVICE WEIGHT HUB &		IRON			RENE RUBBER COMPRESS	SION		P-TRAP MOP BASIN	MCGUIRE MANUFACTURING ADVANCE TABCO	PW2125 9-0P-20				- 4" FAUCET HOLE CTRS	V FACTORY INSTALLED STAINLESS
	SANIIARI /	3IE	ABOVE GROUND	ALL	HUBLESS SERVICE WEIGHT C	CAST IRON	HUB'	BLESS SERVICE WEIGH	ர Cast Iron		DUTY STAINLES	ILESS STEEL	SEALING SLEEVE AND HE EEL CORRUGATED SHIELDS FOUR HEAVY DUTY BANE	DS	JS	FAUCET P-TRAP WATER COOLER	CHICAGO MCGUIRE MANUFACTURING ELKAY	897–RCF PW8912 EDFP214C	3"	2"	1⁄2" 1⁄2"	STEEL DRAIN.	,
	VENT		BELOW GROUND	ALL	SERVICE WEIGHT HUB & SPI	, ² IGOT CAST IRON	SERV	RVICE WEIGHT HUB &	SPIGOT CAST IF	iron	GASKET		RENE RUBBER COMPRESS		EWC	WATER COOLER P-TRAP SUPPLY	ELKAY MCGUIRE MANUFACTURING MCGUIRE MANUFACTURING	EDFP214C PW8912 H170–LK	- 1½"	" 1½"	1⁄2" 1⁄2"	<ul> <li>ADA COMPLIANT, STAINLESS STE</li> <li>PROVIDE FAUCET DRAIN ASSEMB STOPS ESCUTCHEN COVER. PRO DRAIN BOWL ASSEMBLY. FOR US LKAD35.</li> </ul>	IBLY TAILPIECE, SUPPLUIES, ROVIDE BASKET STRAINER,
			ABOVE GROUND	ALL		HUBLESS SERVICE WEIGHT CAST IRON		BLESS SERVICE WEIGH			DUTY STAINLES WITH A MINIMU	NLESS STEEL NIMUM OF FC	EEL CORRUGATED SHIELDS FOUR HEAVY DUTY BANE	DS NDS	NOTES: 1. REFER TO ARCHITECTUAL DRAWINGS FOR STANDARD AND ADA FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.								
	INDIRECT WASTE	E	ABOVE GROUND	ALL	TYPE DWV COPPER TUBING			LORINATED POLYVINYL					PPER / 0.5 SILVER SOLD	DER	<ol> <li>INSTALL PRE-FORMED INSULATION COVER FOR ALL EXPOSED SUPPLY AND DRAINAGE PIPING SERVING ADA COMPLIANT LAVATORIES AND SINKS MANUFACTURED BY TRUEBRO, PLUMBEREX, HANDYSHIELD.</li> <li>PLUMBING FIXTURE SHALL HAVE CHROME PLATED BRASS SUPPLIES, STOPS, ESCUTCHEON COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUED OF ADALTACING PROVIDED AND DRAIN A THEREFORM A THEREFORM AND PROVIDED AND DRAIN A THEREFORM A THEREFORM AND PROVIDED AND</li></ol>								
			BELOW GROUND ALL CEMENT LINED DUCTILE IRON			СЕМЕ	CHLORINATED POLYVINYL CHLORIDE (CPVC) WITH SOLVENT CEMENT WELD ENDS       SOLVENT CEMENT WELDED         CEMENT LINED DUCTILE IRON WITH MECHANICAL       BOLT-ON MECHANICAL JOINT WITH HIGH QUARA			AL JOINT WITH HIGH QUAI	CONTINUOUS DRAINS CONNECTION, SHOWER/TUB DRAIN & TAILPIECE ASSEBLIES SHALL BE CHROME PLATED BRASS, (IN LOCATIONS WHERE PIPING IS TO BE COVERED W/ INSULATION, BRASS FINISHES ONLY SHOULD ONLY BE SUBSTITUTED.)         JALITY       4. GRID STRAINER/BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES												
	COLD WATER HOT WATER HOT WATER REC	_	ABOVE GROUND MAIN BUILDING		TYPE L HARD DRAWN COPPE			OUGHT COPPER WITH	H SOLDER ENDS				COMPRESSION GASKET	_DER	<ol> <li>LAVATORY FAUCETS SHALL 0.5 GPM AERATORS.</li> <li>SERVICE SINK FAUCETS SHALL HAVE VACUUM BREAKER &amp; CHECK VALVES ON HW&amp;CW SUPPLIES EITHER INTEGRAL TO FAUCET OR PROVIDE ON HW&amp;CW PIPES FEEDING THE FAUCET.</li> </ol>								
5_P-001.DWG					R SCHEDULE 40 BLACK STEEL		MAL	LLEABLE IRON WITH TH	THREADED ENDS	;	THREADED				7. WATER C (COORDII	INATE SEAT COLOR W	WITH ARCHITECT)	BSORBENT MATERIAL: ALL SEATS T			·	NLESS STEEL HINGE & HARDWARE. RWISE INDICATION.	
TS\191506465 ED	GAS		ABOVE GROUND INSIDE BUILDING	5" & LARGER	SCHEDULE 40 BLACK STEEL	Э.	SCHE	HEDULE 40 BLACK STI DS	TEEL WITH BUTT	i joint	WELDED							SHALL BE WHITE IN COLOR UNLES			Y UNLESS S		
R PARK\SHEE						PUMP SCH	 CHEDUL'	 ē				_						OPENINO	G / SLEE	/E SCH	IEDULE		
FLOWEI											INSULATED D	OMESTIC COLD WATE	ER, HOT WATER, AND HOT WATER	RECIRCULATION PIPING	U	NINSULATED	SANITARY, WAST	E, VENT, STORM, AND GAS PIPING					
RENO	.1			SYSTEM SYSTEM SYSTEM CY POWE											PIPE DIAMETE	ER V	WALL / FLOOR SLEEVE DIAMETER	R BEAM OPENING DIAMETER	Pľ	pe diameter	۶	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
3 BLDG	.1			LEX S' LEX S' LEX S' RGENC	CAPACITY (EACH PUMP)	ELECTRIC	CAL DATA (EACH	CH PUMP)	PUMP SYSTE	STEM SPECIF	FICATION				1/2" & 3/4"	3	5 ⁿ	4"	11/	2"		3"	<b>3</b> "
.LE 192	SERVICE		DESIGNATION	EME DUP	FLOW RATE HEAD	HP RPM		,	MANUFACTURER			REMARKS	.S		1" 	4	+"	4½" 5"	2" 21			4"	3½" 4"
COCHEI	HOT WATER R	RECIRCULATION PUN	PUMP HWP-1	•	2 GPM 2.5 FT		115	1 60 E	BELL & GOSSETT		.₹C 19–16				11/2"	· · · · · · · · · · · · · · · · · · ·	4"	5"	3'	, ,		5"	
NEW R															2" & 21/2"		 5"		4'	, ,			5½"
WINGS						<b>—</b>									3"	f	6"	6½"	5"			8"	6½"
NDRA	FIXTURE CONNECTION SCHEDULE								<b>4"</b>	۶	3"	7½"	6"			8"	7½"						
VDESIG		(NOT ALL FIXT	URES SHOWN ARE '	NECESSARILY USED ON	، THIS PROJECT)										5"	3	3"	8½"	8"			10"	9½"
1506465	FIXTURE					HW									6"	1	,0	9½"	10			12 <b>"</b>	11½" 13½"
VE\191		T (FLUSH VALVE)	•	4"	2" 1½"														12				13½ [~] 16½"
ACT	WAIER CLOSET	ET (FLUSH TANK)		4"	2" 1/2"																	-	

₹A

ORIGINAL SHEET - ARCH D

LAVATORY

SHOWER

SINK

TUB / SHOWER

LAUNDRY BOX

ICE MACHINE

DRINKING FOUNTAIN

JANITOR'S SINK

11/2" 1/2" 1/2"

11/2" 1/2" 1/2"

1½" ½" ½"

11/2" 1/2" 1/2"

11/2" 1/2" 1/2"

1⁄2"

2" **3**/4" **3**/4"

11⁄2" 1⁄2"

11⁄2"

11⁄2"

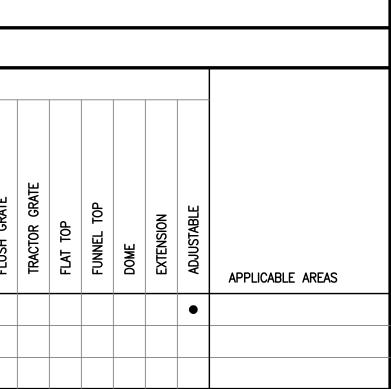
2"

2"

2"

11⁄2"

3"





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Revision		- <u> </u>		
AS DEENEDRAREBID		JME	KF	2020.02.22
ISSUED FOR BID		JME	KF	2020.01.15
Issued		Ву	Appd	YYYY.MM.DD
File Name: N/A	JME	JME	KF	

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Client/Project NEW ROCHELLE

Title

Project No.

Revision

191506465

Scale

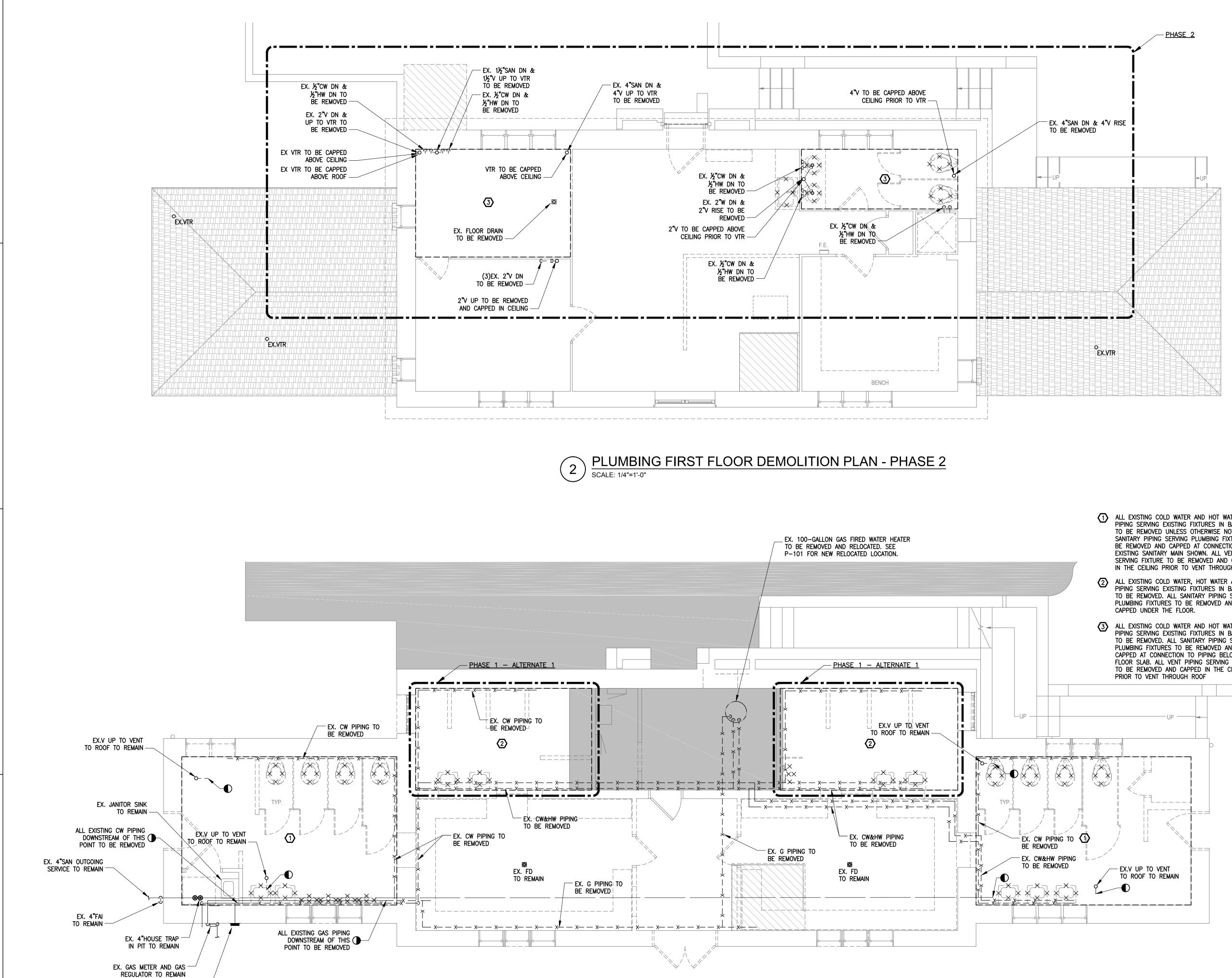
NONE

Drawing No. **P-002** 

1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801

PLUMBING SCHEDULES



EX. NON-FREEZE WALL

HYDRANT TO REMAIN

PLUMBING GROUND FLOOR DEMOLITION PLAN - PHASE 1 SCALE: 1/4"=1'-0"

- ALL EXISTING COLD WATER AND HOT WATER PIPING SERVING EXISTING FIXTURES IN BATHROOM TO BE REMOVED UNLESS OTHERWISE NOTED. ALL SANITARY PIPING SERVING PLUMBING FIXTURES TO BE REMOVED AND CAPPED AT CONNECTION TO EXISTING SANITARY MAIN SHOWN. ALL VENT PIPING SERVING FIXTURE TO BE REMOVED AND CAPPED IN THE CEILING PRIOR TO VENT THROUGH ROOF
- 2 ALL EXISTING COLD WATER, HOT WATER AND VENT PIPING SERVING EXISTING FIXTURES IN BATHROOM TO BE REMOVED. ALL SANITARY PIPING SERVING PLUMBING FIXTURES TO BE REMOVED AND
- (3) ALL EXISTING COLD WATER AND HOT WATER PIPING SERVING EXISTING FIXTURES IN BATHROOM TO BE REMOVED. ALL SANITARY PIPING SERVING PLUMBING FIXTURES TO BE REMOVED AND CAPPED AT CONNECTION TO PIPING BELOW 1ST FLOOR SLAB. ALL VENT PIPING SERVING FIXTURE TO BE REMOVED AND CAPPED IN THE CEILING



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1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801

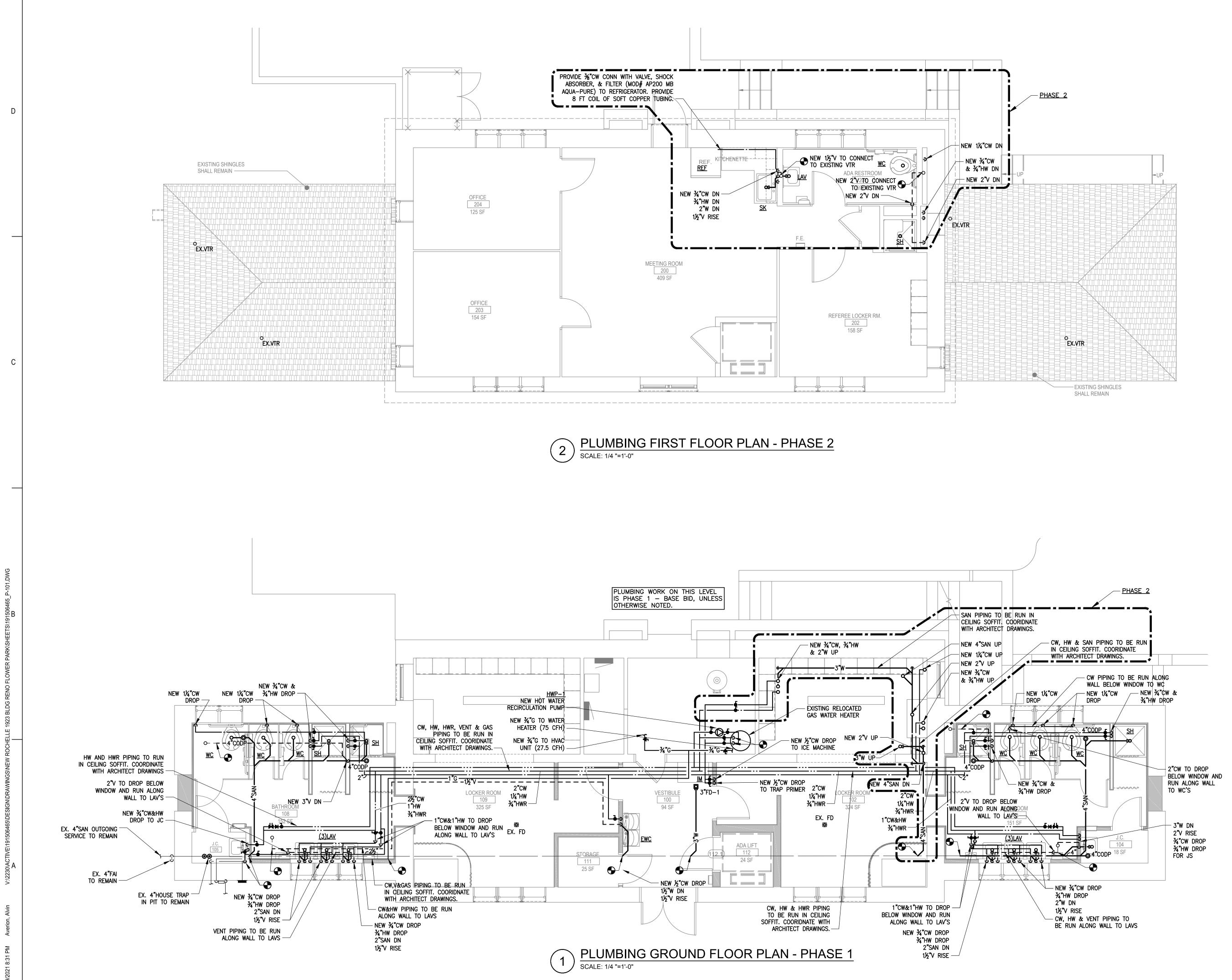
Title PLUMBING GROUND & FIRST FLOOR DEMOLITION PLANS

Project No. 191506465

Scale

Revision

AS NOTED Drawing No. PD-101





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1923 BUILDING RENOVATION FLOWER PARK

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

PLUMBING GROUND & FIRST FLOOR PLANS

Project No. 191506465

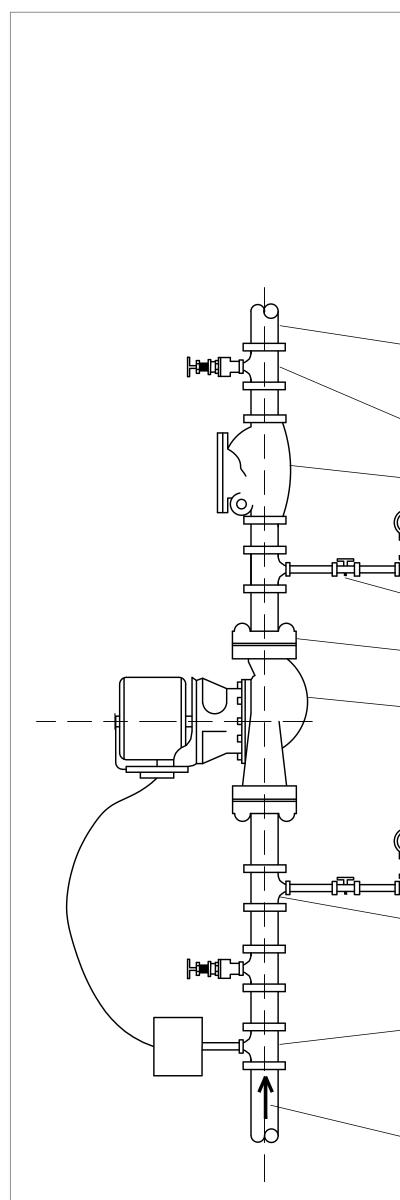
Revision

Scale AS NOTED



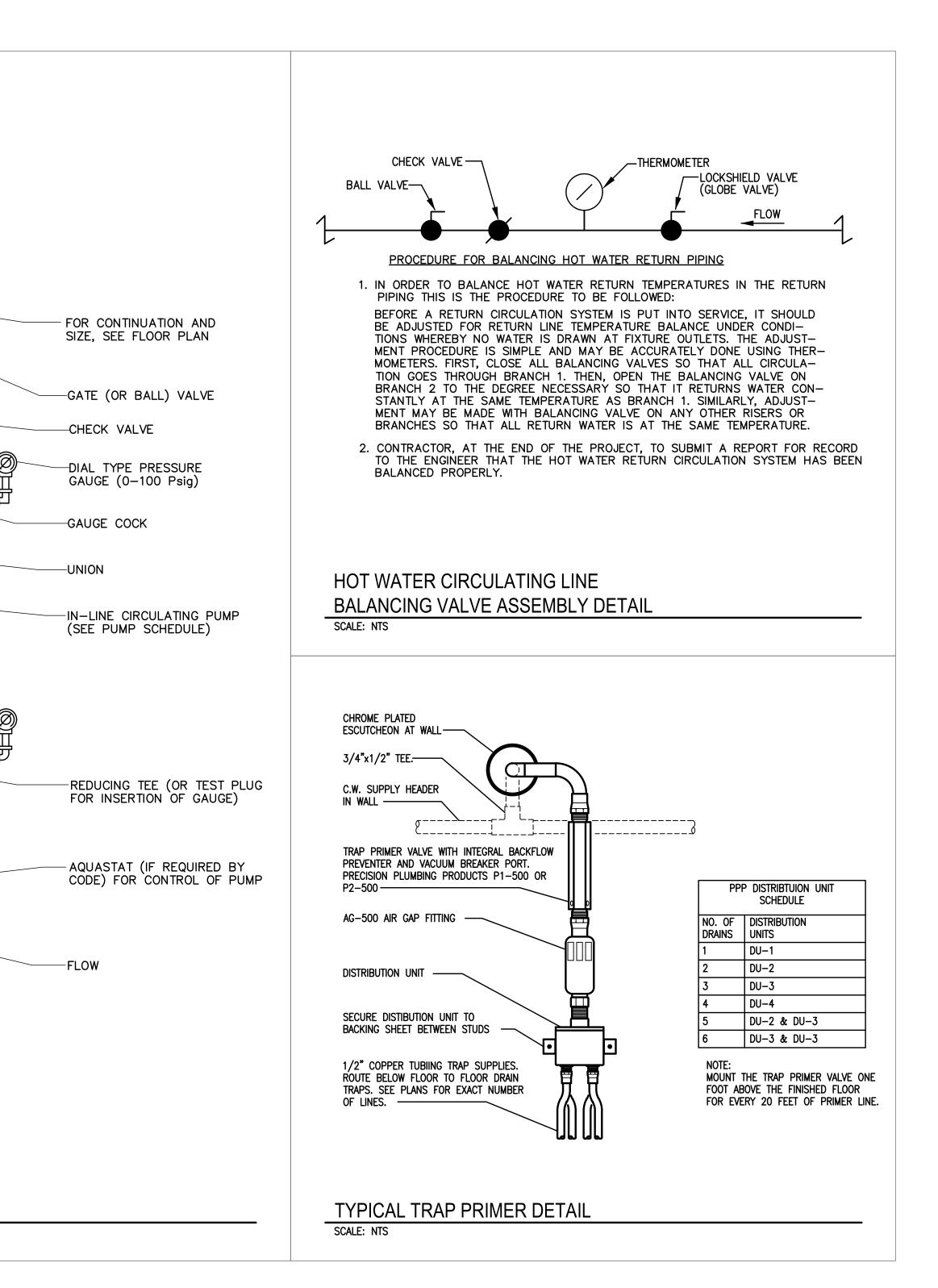


D



CIRCULATING PUMP

SCALE: NTS



Revision

Project No. 191506465

Scale NONE Drawing No. **P-401** 

# PLUMBING DETAILS

491 5TH AVE, NEW ROCHELLE, NY 10801 Title

1923 BUILDING RENOVATION FLOWER PARK

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1	2
1.01 <u>DESCRIPTION</u>	2.02 SOIL, WASTE, AND VENT PIPE AND FITTINGS
A. THE PLUMBING CONTRACTOR SHALL BE A LICENSED INSTALLER OF PLUMBING SYSTEMS IN THE STATE OF NEW YORK.	A. ALL ABOVE GROUND SOIL, WASTE, AND VENT F SHALL BE "NO—HUB" CAST IRON PIPE AND F EXCEPT AS NOTED OTHERWISE.
B. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.	B. ALL JOINTS AND CONNECTIONS SHALL BE ASSEMBLI MEANS OF SEALING SLEEVES AND STAINLESS CLAMPS AND SHIELD ASSEMBLIES.
C. THE ARCHITECT'S SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.	C. PIPE AND FITTINGS SHALL BE CENTRAL FO COMPANY, TYLER PIPE COMPANY, EAST PENN FOUNI APPROVED EQUAL.
D. THE CONTRACTOR IS ADVISED TO CLOSELY COORDINATE HIS WORK WITH THE BUILDING ENGINEER, SO THAT THE INTERRUPTION OF EXISTING BUILDING SERVICES, IN ORDER TO CONNECT NEW PIPING TO EXISTING SHALL BE MADE AT SUCH TIME AS TO CAUSE THE LEAST INTERFERENCE WITH ESTABLISHED BUILDING OPERATING PROCEDURE. CONTRACTOR SHALL NOT INTERRUPT THE SERVICES WITHOUT EXPRESS WRITTEN PERMISSION OF THE OWNER.	APPROVED EQUAL. 2.03 <u>EJECTOR PUMP DISCHARGE PIPE AND FITTINGS</u> A. ALL EJECTOR PUMP DISCHARGE PIPING SHALL E 'L' COPPER TUBING HARD TEMPERED WITH DWV E FITTINGS AND 95/5 TIN/ANTIMONY SOLDERED
1.02 VERIFYING CONDITIONS	2.04 COLD WATER AND HOT WATER PIPE AND FITTINGS
A. EXAMINE ALL DRAWINGS COVERING THE WORK OF THIS SECTION AND REFER TO ALL OTHER DRAWINGS, INCLUDING ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, WHICH MAY AFFECT THE WORK OF THIS SECTION OR REQUIRE COORDINATION BY SAME.	A. DOMESTIC COLD WATER, HOT WATER AND HO CIRCULATION PIPE SHALL BE TYPE "L", HARD COPPER TUBING WITH WROUGHT BRONZE FITTINGS POUND WATER WORKING PRESSURE AND WITH 95–5 (TIN–ANTIMONY) SOLDER. NO SOLDER CO LEAD IS PERMITTED.
B. BEFORE STARTING ANY WORK, EXAMINE EXISTING CONDITIONS, AND THOROUGHLY CHECK DRAWINGS, DIMENSIONS, SPECIFICATIONS, AND ADJOINING OR UNDERLYING CONDITIONS IN WHICH THE WORK OF THIS SECTION IS TO BE PERFORMED.	B. ALL SUPPLIES THROUGH WALLS TO FIXTURES SH 85% RED BRASS WITH THREADED BRASS FITTING EXPOSED PIPING IN FINISHED SPACES SHALL BE PLATED 85% RED BRASS.
C. REPORT, IN WRITING, TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE	2.05 HANGERS AND SUPPORTS
CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK OF THIS SECTION. DO NOT COMMENCE WORK UNTIL ANY AND ALL SUCH CONDITIONS HAVE BEEN CORRECTED BY THE TRADE OR TRADES RESPONSIBLE.	A. FURNISH ALL NECESSARY HANGERS, SUPPORTS, I CLAMPS, ETC. AS REQUIRED. ALL HANGERS AND S SHALL BE OF HEAVY CONSTRUCTION AND SUITA THE SIZE OF PIPE TO BE SUPPORTED. ALL INSER HANGERS SHALL BE INSTALLED TO CLEAR WORK ( TRADES.
D. FAILURE TO NOTIFY THE ARCHITECT OF UNSATISFACTORY CONDITIONS WILL BE CONSTRUED AS AN ACCEPTANCE OF ALL CONDITIONS. E. THE EXECUTION OF THE WORK OF THIS SECTION	C. WHERE PIPES ARE TO BE INSULATED, THE HANGER BE OF AMPLE SIZE TO PROVIDE FOR THE SPECIFIED AND BE PROVIDED WITH GALVANIZED
CONSTITUTES ACCEPTANCE OF THE BASE OR ADJOINING WORK AND OTHER CONDITIONS AS BEING SATISFACTORY IN EVERY RESPECT AND LATER CLAIMS OF DEFECTS IN SUCH CASES WILL NOT BE ALLOWED.	INSULATION SHIELDS.
<ul> <li>F. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENT AND THE APPROXIMATE LOCATION OF EQUIPMENT, FIXTURES, PIPING, ETC. EXACT LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT EXISTING CONDITIONS.</li> <li>G. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH THE WORK OF OTHER TRADES OR FOR THE PROPER</li> </ul>	E. ALL HORIZONTAL COPPER TUBING SHALL BE SUPP HANGERS NOT OVER SIX (6) FEET APART FOR 1–1/4 INCH AND SMALLER AND NOT OVER TEN ( APART FOR PIPING 1–1/2 INCH AND LAR BRANCHES SHALL HAVE SEPARATE HANGERS.
G. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH THE WORK OF OTHER TRADES, OR FOR THE PROPER INSTALLATION OF THE WORK.	SHALL BE CLEVIS TYPE WITH COPPER BOTTOM IF CHANNEL OR ANGLE IRON TRAPEZE HANGERS / THE SPACE ON HANGERS FOR THE COPPER TUB BE WRAPPED WITH LEAD SHIELDS TO ISOLATE TUB
1.03 <u>AS-BUILT DRAWINGS</u>	F. IN AREAS OF STEEL CONSTRUCTION, PIPE HANGERS BE SUPPORTED BY BEAM CLAMPS. COORDIN ENGINEER FOR MAXIMUM LOADING. BEAM CLAMPS
A. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, EXPOSED PIPING, PIPING CONNECTIONS,	STEEL WITH BOLT, NUT AND SOCKET THREADED CONNECTION AND SHALL BE F & S MAN COMPANY FIG. #45, CENTRAL IRON, GRINNELL CO OR APPROVED EQUAL.
AND ACCESS PANELS/DOORS. THESE DRAWINGS SHALL INCLUDE ALL CHANGES AND DEVIATIONS FROM CONSTRUCTION DOCUMENTS. THESE DOCUMENT SHALL ALSO BE PROVIDED TO THE OWNER IN AN APPROVED AUTOCAD FORMAT.	2.06 INSULATION
1.04 <u>TESTS</u>	A. COVER ALL COLD WATER, HOT WATER AND HOT RECIRCULATION PIPE WITH MANVILLE MICRO-LOK / FIBERGLASS INSULATION. INSULATION THICKNESS S
A. THE PLUMBING SYSTEMS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.	COMPLY WITH THE TABLE C403.2.1 OF THE INTER ENERGY CONSERVATION CODE. FITTINGS AND VALV BE INSULATED WITH MANVILLE ZESTON 2000 PVC FITTING COVERS. INSTALL ALL INSULATION AS PER
1.05 <u>CLEANING</u>	TURERS RECOMMENDATIONS. ALL INSULATION MATE COMPLY WITH NEW YORK STATE BUILDING CODE F OF A FLAME SPREAD RATING NOT TO EXCEED 25
A. ALL PIPING, FIXTURES, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED AND PROTECTED DURING CONSTRUCTION AND PUT INTO FIRST—CLASS OPERATING CONDITION BEFORE BEING	SMOKE DEVELOPED RATING NOT TO EXCEED 50. 2.07 <u>VALVES</u>
OFFERED FOR ACCEPTANCE. B. UPON COMPLETION OF ALL WORK, THE PLUMBING	A. STOP VALVES, EXCEPT FIXTURE STOPS, ON HOT AN WATER LINES 2 IN. AND SMALLER SHALL BE FUL
CONTRACTOR SHALL THOROUGHLY CLEAN ALL PLUMBING FIXTURES, SINKS AND TRIM AND LEAVE ALL ITEMS READY FOR USE BY THE OWNER. ALL FLOOR DRAINS SHALL BE	400 LB. NON–SHOCK BRONZE BALL VALVES T–595–Y FOR THREADED CONNECTIONS, AN S–595–Y FOR COPPER TO COPPER, OR APPROVE
CLEANED AND MANUFACTURERS PROTECTIVE COVERINGS SHALL BE REMOVED.	2.08 <u>DRAINS</u> A. ALL DRAINS SHALL BE AS PER DRAIN
1.06 <u>LAWS, ORDINANCES, ETC.</u> A. THE WORK OF THIS CONTRACTOR MUST COMPLY WITH ALL	LOCATED ON COVER DRAWING.
LOCAL LAWS, ORDINANCES AND RULES. THIS CONTRACTOR MUST HAVE THE NECESSARY INSPECTIONS MADE BY THESE AUTHORITIES, PAY ALL THE REQUIRED FEES, AND FURNISH THE OWNER WITH CERTIFICATES OF APPROVAL BEFORE FINAL PAYMENT ON THIS CONTRACT IS MADE. HE SHALL APPLY, PAY FOR, AND OBTAIN ALL PERMITS.	2.09 <u>GUARANTEE</u> A. THIS CONTRACTOR SHALL GUARANTEE FOR A PE ONE (1) YEAR FROM DATE OF ACCEPTANCE OWNERS, ALL MATERIALS, APPARATUS AND WOR WHETHER FURNISHED BY HIMSELF OR SUBCONTRACTORS AND HE SHALL REPLACE OR RI
1.07 <u>SUPERVISION</u>	MANNER APPROVED BY THE ARCHITECTS, WITHOUT THE OWNER, ANY PARTS OR PARTS OF THE WO MAY PROVE DEFECTIVE OR UNSATISFACTORY WITH
A. THIS CONTRACTOR SHALL HAVE A COMPETENT FOREMAN IN RESPONSIBLE CHARGE OF THE WORK WHO SHALL BE ON THE SITE DURING THE INSTALLATION OF THE MATERIAL FURNISHED LINDER THIS SPECIFICATION LINTH SAME HAS	PERIOD OF THE GUARANTEE. B. WHERE SPECIAL GUARANTEES COVERING INSTAL
FURNISHED UNDER THIS SPECIFICATION UNTIL SAME HAS BEEN PUT IN COMPLETE OPERATIVE CONDITION AND ACCEPTED BY THE OWNER.	OPERATION OR PERFORMANCE OF ANY SYS APPLIANCES FURNISHED UNDER THIS CONTRAC REQUIRED, THE FULL RESPONSIBILITY FOI FULFILLMENT OF SUCH GUARANTEES MUST BE ASS
1.08 <u>CUTTING AND PATCHING</u> A. THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING FOR PLUMBING WORK AND SHALL COORDINATE SAME WITH	THE CONTRACTOR, WHO SHALL OBTAIN GUARANTEES, IN TRIPLICATE, WHICH SHALL BE WITH THE ARCHITECT BEFORE FINAL ACCEPTANCE.
ALL OTHER TRADES. ALL CUTTING SHALL BE SUBJECT TO TRADE REGULATIONS. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT.	C. CONTRACTOR WILL BE RESPONSIBLE FOR ALL ALL PIPES FOR A PERIOD OF ONE YEAR FROM OF COMPLETION OF WORK UNDER THIS CONTRACTOR SHALL REPAIR AT NO COST TO TH ALL SUCH LEAKS WHICH OCCUR AFTER COMI
<u>PART 2 – MATERIAL</u> 2.01 <u>GENERAL</u>	THIS CONTRACT UPON 24 HOURS NOTICE THERE CONSTRUCTION MANAGER/GENERAL CONTRACTO WHICH OCCUR PRIOR TO THE COMPLETION
A. THE PLUMBING SYSTEMS SHALL BE COMPLETE WITH ALL PIPES, FITTINGS, TRAPS, SUPPLIES, VALVES, HANGERS AND SUPPORTS, INSULATION, ETC. AND ALL OTHER ITEMS NECESSARY FOR COMPLETE, SATISFACTORY OPERATING AND APPROVED TYPE SYSTEM.	CONTRACT SHALL BE REPAIRED AT ONCE. CONT RESPONSIBLE FOR ANY DAMAGE CAUSED BY S AND THE REPAIR THEREOF AND WILL REIMB CONSTRUCTION MANAGER/GENERAL CONTRACTOR EXPENSE INCURRED THEREBY.
B. ALL PIPE FITTINGS, VALVES, FIXTURES, HANGERS, SUPPORTS, INSULATION, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.	D. DISINFECTION THE POTABLE WATER SYSTEM SHALL BE DISINFEC PRIOR TO USE BY A METHOD OF DISINFECTION I
	ACCORDANCE WITH THE NEW YORK STATE BUILDI CODE.

ORIGINAL SHEET - ARCH D

