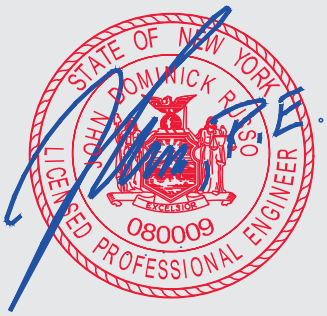
BEACON HIGHWAY GARAGE ROOFTOP SOLAR ARRAY

Contract Documents
&
Technical Specifications

CITY OF BEACON
DUTCHESS COUNTY, NEW YORK

COB Bid No. 2025-014
COB Contract No. 2025-XXX

Consulting Engineers
Lanc & Tully
Engineering and Surveying, P.C.
P.O. Box 687
Goshen, NY 10924



August 2025

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HIGHWAY GARAGE REFERENCE PLANS

ADVERTISEMENT FOR BIDS

Beacon Highway Garage Rooftop Solar Array
City of Beacon, Dutchess County, New York

Separate sealed bids will be received by the City of Beacon in City Hall at One Municipal Plaza, Beacon, New York, until 11:00 a.m. on September 16, 2025, and then at said office publicly opened and read aloud. Bids are requested for:

BEACON HIGHWAY GARAGE ROOFTOP SOLAR ARRAY
City of Beacon, Dutchess County, New York

GENERAL CONTRACT

Work includes design, engineering, permitting, installation, interconnection, monitoring, maintenance, commissioning and operation of a solar array on the City's highway garage. Contractor shall be an approved contractor by NYSERDA as part of the NY-Sun program. The desired rooftop array shall produce 100% of the annual kWh consumed by the building, with additional kWh to be distributed through a remote-crediting system to be established as part of the project.

Site visits can be made during building operating hours of 8am to 4pm Monday – Friday. To set up a site visit please contact Highway Superintendent Michael Manzi at (845) 831-0932.

Documents may be obtained via electronic means from: Proposals and Bid Notices – City of Beacon (beaconny.gov), Bidnet, NYS Contract Reporter. Paper Copies of the Contract Documents and Plans may be obtained at Lanc & Tully Engineering and Surveying, P.C., 3132 Route 207, Campbell Hall, NY 10916. Phone (845) 294-3700, between the hours of 9:00 am and 3:00 pm, starting on August 22, 2025. Persons shall leave name, correct mailing address, phone, fax and email address, along with a $50.00 deposit for each set of documents and plans. The deposit shall be in the form of check or money order ONLY, for each set and shall be drawn payable to the City of Beacon. Addenda, if any, will be issued only to those persons whose name and address are on record as having obtained the contract documents.

The City of Beacon reserves the right to waive what it deems to be informalities relating to a specific bid, to waive what it deems to be technical defects, irregularities and omissions relating to a specific bid, to reject any or all bids, to request additional information from any Bidder, to re-advertise for new bids or to accept the whole or part of any bid which in the opinion of the City Council of the City of Beacon is in the best interest of the City of Beacon. The City of Beacon will not discriminate against bidders because of race, creed, color, national origin, sex, age, disability, or marital status. **Every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course, in accordance with Labor Laws.**

Each bidder must deposit with their bid a bid security in the proper amount and form, as described and provided in the Information to Bidders and Non-Collusive Certificate.

INFORMATION FOR BIDDERS

1. RECEIPT AND OPENING OF BIDS

The City of Beacon, Dutchess County, New York (herein, called the "Owner") invites bids on the form attached hereto, all blanks of which must be appropriately filled in. Envelopes containing the bids must be sealed, addressed to: City of Beacon, City Hall, One Municipal Plaza, Beacon, New York 12508 and designated as **Beacon Highway garage Rooftop Solar Array** must be actually received not later than the time and the date specified in the Advertisement for Bids.

The Owner may consider informal any bid not prepared and submitted in accordance with the provisions thereof and may waive any informalities or reject any or all bids. Any bid may be withdrawn prior to the above scheduled time for the opening of bids. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 45 days after the actual date of the opening thereof.

2. PREPARATION OF BID

Each bid must be submitted on the prescribed form. All blank spaces for bid prices must be completed in ink or by typewriter. In addition to the prescribed for, each bid must be accompanied by the following:

1. Required Bid Security
2. Information Sheet
3. Conflict of Interest Statement
4. Reference Sheet
5. Equal Employment Opportunity
6. Non-Collusive Bidding Certificate
7. Statement of Bidder’s Qualifications
8. Certification of Limited Foreign Involvement
9. Sexual Harassment Prevention Policy Certification
10. Iran Divestment Act Compliance Certification
11. Contractor Certification Form: Labor Law 220-i

Each envelope containing a bid must bear on the outside the name and address of the bidder, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified above. The Contractor assumes the risk of any error or delay in the delivery of its bid by whatever delivery means it chooses (e.g. mail, hand delivery, courier, overnight service or other means) including the handling of mail by employees of the City of Beacon.

The Contractor shall not include in the bid any sales and compensating use taxes of the State of New York or of any City or County in the State of New York for any materials which are to be incorporated in the work. The City has a tax exemption number and forms which will be made available to the successful bidder to the extent permitted under the present applicable statutes.

No bids will be accepted unless the Non-Collusive Bidding Certificate provided in these specifications is properly executed and submitted with the bid, as required by the General Municipal Law.

3. BID MODIFICATION AND WITHDRAWAL

Any bidder may modify or withdraw its bid by written communication at any time prior to the opening of bids, provided such communication is received by the Owner prior to the opening, and provided further, the Owner is satisfied that a written confirmation of the telegraphic modification over the signature of the bidder was mailed prior to the opening time. The communication should not reveal the bid price but should provide the addition or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed bid is opened. If written confirmation is not received within two days from the opening of bid time, no consideration will be given to the modification.

4. METHOD OF BIDDING

A. The bid is unit price per item.

B. Lowest Bidder

Bids will be compared on the basis of the correct totals of the schedule of quantities comprising all items at the unit and lump sum prices bid for these items. The lowest bidder under each Contract will be that Bidder whose Bid totals the lowest number of dollars as determined above.

Owner reserves the right to reject any and all Bids, to waive any and all informalities not involving price, time or changes in the Work and to negotiate contract terms with the Successful Bidder, and the right to disregard all nonconforming, non-responsive, unbalanced or conditional Bids. Also, Owner reserves the right to reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by Owner. Discrepancies in the Multiplication of units of Work and unit prices will be resolved in favor of the Unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

When numbered Alternate Bid items are required, the lowest Bidder is the Bidder whose Bid for the Alternate or combination of Alternates, selected by Owner, is the lowest. It shall be understood that the Owner reserves the right to select any alternate or combination of Alternates.

The alternate Bid Items are provided because of the City of Beacon's budgetary constraints and to achieve the economy of scale.

5. BID SECURITY

Each bid must be accompanied by cash, certified check of the bidder or a bid bond prepared on the Bid Bond Form attached, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, **licensed in the state of New York with a minimum rating of "bbb"**, in the amount of 5% of the total contract bid. Such cash, checks or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining cash, checks, or bid bonds will be returned promptly after the Owner and accepted bidder have executed the contract, or, if no award has been made within 45 days after the date of the opening of bids, upon demand of the bidder at anytime thereafter, as long as he has not been notified of the acceptance of his bid. Bid Security shall be made payable to the City of Beacon.

6. LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT

The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds required within 15 days after he has received notice of the acceptance of his bid, shall forfeit to the Owner the security deposited with this bid, which sum is agreed on as the proper measure of liquidated damages that the Owner will sustain as a result of the failure or refusal to execute and deliver the contract and bonds as required in this paragraph. This sum is not to be construed in any sense as a penalty but as a good faith measure of the economic injury to the Owner which otherwise is impractical to calculate.

7. ADDENDA AND INTERPRETATIONS

No interpretations of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally. Every request for such interpretation should be in writing and emailed to Lanc & Tully, P.C., jdr@lanctully.com and to be given consideration must be received at least seven (7) working days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be posted to the various websites not later than three to five working days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

8. SECURITY FOR FAITHFUL PERFORMANCE

Simultaneously with his delivery of the executed contract, the Contractor shall furnish a Construction Performance Bond and a Construction Payment Bond in amounts equal to 100% of contract price, as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contact and furnishing materials in connection with this contract, as specified in the General Conditions included herein. **Each bond shall state "The amount of the bond shall be adjusted to reflect the effect of any changes ordered by the owner by a Written Amendment, a Change Order, or a Work Change Directive".** The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Owner, **licensed in the state of New York with a minimum rating of "bbb",** and shall be prepared on the forms found in these contract documents.

9. WARRANTY AND GUARANTEE

The Contractor shall warrant and guarantee all his work and material for a period of two years after final acceptance by the Owner in accordance with the General Conditions. The Owner shall retain 5% of the total completed works cost during this **two-year** period unless the Contractor provides an acceptable Maintenance Bond in the same amount, or unless his Performance Bond covers this two-year period. The Contractor shall also provide the purchaser of the solar electric system a full five-year warranty that covers all components of the generating system against breakdown or degradation in electrical output of more than 10% from the original rated electrical output. The warranty shall cover the full costs, including labor, repair, and replacement of defective components or systems. Requests for warranty services shall be responded to within 72 hours and repairs completed within 30 days.

10. OBLIGATION OF BIDDER

At the time of the opening of bids, each bidder will be presumed to have inspected the Technical Specifications and to have read and to be thoroughly familiar with the contract documents. The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to his bid. The lowest bidder shall supply the names and addresses of major material suppliers and subcontractors when requested to do so by the Owner.

11. QUALIFICATIONS OF BIDDER

The Owner may make such investigations as he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the contract. Conditional bids will not be accepted. **Contractor shall submit relevant experience that demonstrates proven record of completing design, installation, operation and maintenance of similar projects. Contractor shall also be designated on the NYSERDA Quality Solar Installers list and shall provide proof of designation.**

12. POWER OF ATTORNEY

Attorneys-in-fact who sign Bid Bonds or Payment Bonds and Performance Bonds must file with each Bond a certified and effective dated copy of their power of attorney.

13. TIME OF COMPLETION AND LIQUIDATED DAMAGES

Bidder must agree to complete all work, no later than 75 calendar days after the date specified in the Notice to Proceed.

Bidder must agree to pay in accordance with the following schedule for each consecutive calendar day the project completion extends past the completion date, which sum is agreed on as the proper measure of liquidated damages that the Owner will sustain per diem by the failure of the Bidder to complete the work in the time stipulated, and this sum is not to be construed in any sense as a penalty but a good faith measure of the economic injury to the Owner which is otherwise impractical to calculate.

Original Contract Amount		Liquidated Damages Per Day
From More Than	To and Including	
$0	$25,000	$575
$25,000	$50,000	$600
$50,000	$100,00	$725
$100,000	$500,000	$825
$500,000	$2,000,000	$1,025

14. LAWS AND REGULATIONS

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written in full.

15. ADDITIONS AND DELETIONS

The Owner may elect to delete from the contract any portion of the work or material described. Any major alterations, either subtractions or additions, will be made prior to the contract award.

16. INSURANCE

During the life of the contract, the Contractor shall maintain in full force and effect the following.

1. Workers Compensation Insurance and New York State Disability Insurance in conformity with the applicable laws of the State of New York.
2. Contractor's Comprehensive General Liability and Property Damage Insurance.
3. Contractor's Protective Comprehensive General Liability and Property Damage Insurance in his own name and for Sub-contractor operations.
4. Contractor's Protective Comprehensive General Liability and Property Damage Liability Insurance in the name of the Owner.
5. Bodily Injury Liability and Property Damage Liability Insurance for all automotive equipment utilized for this contract.

The Contractor shall furnish to OWNER Certificates of Insurance as evidence of coverage prior to commencement of the PROJECT and naming the OWNER and ENGINEER as Additional Insured on a primary and non-contributory basis. Waiver of Subrogation in favor of the OWNER is to be included. The Contractor shall provide thirty (30) days written notice to the OWNER, by registered mail with return receipt requested, prior to cancellation or expiration of the policy. Policies that lapse and/or expire during term of work shall be recertified and received by the OWNER no less than thirty (30) days prior to expiration or cancellation. All carriers listed in the certificates of insurance shall be A.M. Best Rated A VII or better and be licensed in the State of New York.

DATE: _____ BID NAME: _____

INFORMATION SHEET

NAME OF BIDDER:_____

ADDRESS: _____

_____

TYPE OF ENTITY: Corp _____ Partnership _____ Individual _____

If a non-publicly owned Corporation:
NAME OF CORPORATION:_____

List Principal Stockholders, holding over 5% of outstanding shares:

_____

_____

LIST OFFICERS:_____

_____

LIST DIRECTORS:_____

_____

DATE OF ORGANIZATION:_____

_____

If partnership:
PARTNERS: _____

_____

NAME OF PARTNERSHIP:_____

DATE OF ORGANIZATION:_____

If the business is conducted under an assumed name, a copy of the Certificate required to be filed under the New York General Business Law must be attached.

CITY OF BEACON
CONFLICT OF INTEREST STATEMENT

VENDOR'S NAME: _____

SIGNATURE REQUIRED: _____

_____
Print Name

DATE: _____

If the bidder is an individual, the bid must be signed by that individual; if the bidder is a corporation, by an officer of the corporation, or other person authorized by resolution of the Board of Directors, and in such case a copy of the resolution must be attached; if a partnership, by one of the partners or other person authorized by a writing signed by at least one general partner and submitted with the bid or previously filed with the Purchasing Agent.

> "The submission of this constitutes a certification that no City Officer has any interest therein. (Note: In the event that any City Official has any such interest, the full nature thereof should be disclosed below.)"

REFERENCE SHEET

All bidders will be required to complete this form providing three references of past performance. References should involve projects and/or service situations of similar size and scope to this bid. References must have had dealings with the bidder within the last 12 months. The City reserves the right to contact any or all of the references supplied for an evaluation of past performance in order to establish the responsibility of the bidder before the actual award of the bid and/or contract. Completion of the reference form is required.

****

If references have been filed with the City of Beacon Purchasing Department during the last 12 months, it will not be necessary to complete this form. Indicate filing date on the line provided.

BIDDER'S NAME: _____

DATE FILED: _____

****

Bidder's Name: _____

Reference's Name: _____

Address: _____

Telephone: _____ Contact Person: _____

Bidder's Name: _____

Reference's Name: _____

Address: _____

Telephone: _____ Contact Person: _____

Bidder's Name: _____

Reference's Name: _____

Address: _____

Telephone: _____ Contact Person: _____

STATEMENT OF BIDDERS QUALIFICATIONS

The Undersigned certifies under oath the truth and correctness of all statements and of all answers to questions made hereinafter. Answer all questions in a clear and comprehensive manner. This form must be completed in full and sealed (if corporation) or signed by all partners. The bidder may submit any additional information he/she desires.

NOTE: THIS STATEMENT MUST BE NOTARIZED.

SUBMITTED BY:

Name of Bidder:_____

Federal Identification Number:_____
Permanent Principal Office Address:

Corporation ___ Partnership ___ Individual ___ Joint Venture
Other

1. Date When Firm Organized:

2. State of incorporation:

3. How many years has your organization been engaged in contracting under your present firm or trade name?

4. Have you ever failed to complete any work awarded to you? If so, note when, where, and why:

5. Has any office or partner of your organization ever been an officer or partner of another organization that failed to complete a construction contract? _____ If so, state circumstances:

6. List name of project, owner, architect, contract amount, percentage complete and scheduled completion of the major construction projects your organization has in process on this date:

7. List name of project, owner, architect, contract amount, date of completion the major construction projects your organization has completed in the last five years:

8. **List your major equipment (manufacturer, model, size, etc.) available for this contract <u>(this should not include equipment dedicated to other projects)</u>:** This may be attached as a separate sheet if necessary.

9. Experience in work similar in scope and scale to this project:

10. List the construction experience of the principal individuals of your organization:

11. Trade References:

12. Bank References:

State of New York Name of Bidder:

County of ( ) Date:

On this _____ day of _____, 202__ before me came

_____ to me known to be the individual(s)

described in and who executed the foregoing instrument and acknowledged

that he/she executed the same.

Notary Public

County

THIS AFFIDAVIT MUST BE COMPLETED BY ALL BIDDERS

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractor, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause: and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

CERTIFICATION BY BIDDER

NAME AND ADDRESS OF BIDDER (*INCLUDE ZIP CODE*)

1. **Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.**

   ☐ **No** ☐ **Yes**

2. **Compliance reports were required to be filed in connection with such contract or subcontract.**

   ☐ **No** ☐ **Yes**

3. **Bidder has filed all compliance reports due under applicable instructions, including SF-100.**

   ☐ **No** ☐ **Yes**

4. **Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended?**

   ☐ **No** ☐ **Yes**

NAME AND TITLE OF SIGNER (Please type)

SIGNATURE **DATE**

REPLACES FORM HUD-4238.CD-1, WHICH IS OBSOLETE

BIDDER'S CERTIFICATION OF
LIMITED FOREIGN INVOLVEMENT

(Completion of this statement is required in advance of consideration for award of this contract.)

SUBMITTED TO:

SUBMITTED FOR:

SUBMITTED BY:

Name: _____
(print or type name of bidder)

A Corporation / A Partnership / An Individual / A Joint Venture

Address: _____
_____

Gentlemen:

The undersigned certifies under oath the truth and correctness of all statements made hereinafter.

1. The Offeror is not a contractor of a foreign country included on the list of countries that discriminate against U.S. firms as published by the U.S. Trade Representative (USTR).

2. The Offeror has not or will not enter into any subcontract with a subcontractor or a foreign country included on the USTR list.

3. The Offeror will not provide any product of a country included on the USTR list.

_____
(print or type name of bidder)

(Seal, if Corporation) By: _____

Title: _____

BIDDER'S CERTIFICATION OF COMPLIANCE WITH NEW YORK STATE DEPARTMENT OF LABOR SEXUAL HARASSMENT PREVENTION POLICY

Pursuant to New York State Labor Law §201-g, every employer shall adopt a model sexual harassment prevention policy promulgated pursuant to this subdivision or establish a sexual harassment prevention policy to prevent sexual harassment that equals or exceeds the minimum standards provided by such model sexual harassment prevention policy.

Pursuant to New York State Finance Law §139-1, every bid hereafter made to the state or any public department or agency thereof, where competitive bidding is required by statute, rule or regulation, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the bidder and affirmed by such bidder as true under the penalty of perjury:

BIDDER'S CERTIFICATION

By submission of this bid, _____

(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 §201-g of the Labor law."

_____ further represents that it has adopted a sexual harassment prevention policy ('policy') and that it provides annual sexual harassment prevention training to its employees as required by and consistent with the regulations promulgated by the New York State Department of Labor. _____ agrees to provide a copy of the policy to _____upon request.

_____
SIGNATURE

_____
PRINTED NAME

_____
TITLE

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

_____
Notary Public

BIDDER'S CERTIFICATION OF COMPLIANCE WITH IRAN DIVESTMENT ACT

Pursuant to General Municipal Law §103-g, which generally prohibits the City of Beacon from entering into contracts with persons engaged in investment activities in the energy sector of Iran, the bidder/proposer submits the following certification:

[*Please Check One*]

BIDDER'S CERTIFICATION

☐ By submission of this bid or proposal, each bidder/proposer and each person signing on behalf of any bidder/proposer certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, that each bidder/proposer is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the State Finance Law.

☐ I am unable to certify that my name and the name of the bidder/proposer does not appear on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-aof the State Finance Law. I have attached a signed statement setting forth in detail why I cannot so certify.

Dated: _____, _____, New York, 20 __

_____

SIGNATURE

_____

PRINTED NAME

_____

TITLE

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

_____

Notary Public

CONTRACTOR CERTIFICATION FORM: LABOR LAW § 220-i

SIGN AND SUBMIT WITH BID

Contractors submitting bids for a municipal public work project must be registered with the New York State Department of Labor ("NYSDOL") ***before*** the submission of a bid. The person authorized to submit this bid on behalf of the prospective bidder hereby certifies, under the penalties of perjury, that: **(1)** the prospective bidder (i.e., contractor) is currently registered with the NYSDOL pursuant to NYS Labor Law § 220-i; and **(2)** each and any subcontractors engaged by contractor for work on this project shall be registered with the NYSDOL pursuant to NYS Labor Law § 220-i prior to commencing work on the project. Certificates of Registration for subcontractors can be submitted with this form but ***must*** be submitted ***before*** such subcontractor(s) commence work on the project. Bidder will be responsible for any project delays caused due to a subcontractor's failure to timely register with the NYSDOL. *Failure to complete this form or to include copies of bidder's current Certificate of Registration may result in disqualification from this bid.*

Bidder hereby represents it has attached to this form, a copy of the Certificate(s) of Registration issued by the NYSDOL for the Bidder.

Project: _____

Bidder's Business Name: _____

Bidder's Address: _____

Bidder's NYSDOL Certificate Number: _____

Issued: _____ Expiration Date: _____

Subcontractor(s) NYSDOL Certificate Number (*if available at time of bid submission*): _____

_____

☐ Copy of Bidder's NYSDOL Certificate of Registration is attached. A copy of a submitted application will not be accepted.

Date: _____ _____

Signature of Bidder's Authorized Representative

_____

Sworn to before me this _____ Print Name/Title

day of _____, 20___

_____

Notary Public

BID FORM

Beacon Highway Garage Rooftop Solar Array
City of Beacon, Dutchess County, New York

This Bid is submitted to:

CITY OF BEACON CITY HALL
ONE MUNICIPAL PLAZA
BEACON, NEW YORK 12508

By: _____
(Name of Contractor)

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents and Technical Specifications for the Contract Price and within the Contract Time indicated in the accordance with the other terms and conditions of the Contract Documents. The terms and conditions of the Contract Documents shall become enforceable upon the adoption of a Resolution by the City Council to award the Contract to the selected BIDDER.

2. BIDDER accepts all of the terms and conditions of the Advertisement for Bids and Information for Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for the specified number of calendar days after the day of Bid opening as stated in the Information for Bidders. BIDDER will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements also as specified in the Information for Bidders.

3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that BIDDER has examined copies of all the Contract Documents, the Advertisement for Bids, the Information for Bidders, and of the following Addenda (receipt of all which is hereby acknowledged):

Date Received	Addendum Number

4. BIDDER has familiarized itself with the nature and extent of the Contract Documents, technical specifications, work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

5. BIDDER agrees that the Work will be complete in accordance with the Contract Documents within the number of calendar days indicated in the Agreement and accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

6. The following documents are attached to and made a Condition of this Bid:

   A. Required Bid Security in the form of: (check appropriately)

      1. 5% Bid Bond _____
      2. Certified Check _____
      3. Cash _____

   B. Non-Collusion Bidding Certification
   C. Certification of Bidder regarding Equal Employment Opportunity
   D. Information Sheet
   E. Conflict of Interest Statement
   F. Reference Sheet
   G. Statement of Bidder's Qualifications
   H. Certification of Limited Foreign Involvement
   I. Sexual Harassment Prevention Policy Certification
   J. Iran Divestment Act Compliance Certification
   K. Contractor Certification Form: Labor Law 220-i

7. Communications concerning this Bid shall be addressed to the BIDDER at the following address:

   _____
   _____
   _____

8. The terms used in this Bid are defined and have the meanings assigned to them in the General Conditions.

9. The UNIT PRICES shall include all of the Contractor's Costs including but not limited to the cost of material, labor, delivery, installation, loading, unloading, overhead, profit, insurance, etc.

10. **The approximate quantities of work to be performed under the proposed contract are set forth in the Bid Form. These quantities are to be considered as approximate only and are given solely for the comparison of bids. The Owner does not expressly or by implication agree that the actual amount will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as may be deemed necessary by the Engineer. The Contractor shall at no time make claim for anticipated profit or loss of profits because of any difference between the quantities of work actually done, or of material actually furnished, and the estimated quantities. The Contractor will be paid only for the actual quantities of work performed at the Contract Unit Price bid.**

BEACON HIGHWAY GARAGE ROOFTOP SOLAR ARRAY
CITY OF BEACON, DUTCHESS COUNTY, NY

All items are *complete items* & include furnishing, installation, excavation, backfilling, labor, etc., unless mentioned otherwise in this Bid Form.

BIDDER will complete the BASE BID work on **Beacon Highway Garage Rooftop Solar Array** using the following unit prices:

Item #	Item Description	Unit	Est. Qty	Unit Price	Total Amount
1	Bonds and Insurance	LS	1		
2	All permitting, applications with outside agencies (Central Hudson), coordination with Central Hudson on inter-connection with power grid, preparation of all required documents for NYSERDA Sun-Up program, providing a minimum full five-year warranty that covers all components of the generating system against breakdown or degradation, and preparation of Operations & Maintenance Manual for system.	LS	1		
3	Structural analysis prepared by NYS Professional Engineer showing that existing roof system can support proposed solar array.	LS	1		
4	Design of solar array system showing layout of solar panel array, running of all electrical wiring, location of all inverters, location of all necessary panels and switches on the exterior and interior of the building. Submission of plan to Beacon Building Department for issuance of building permit.	LS	1		

Item #	Item Description	Unit	Est. Qty	Unit Price	Total Amount
5	Installation of roof mounted photovoltaic modules (panels) to support an estimated 123,730 kWh per year solar electric power system on south-east facing tilted roof. This task includes all materials necessary for mounting panels to south-east facing roof, wiring, conduits, sleeves, raceways, switches, rapid shut down, enclosures, panels, boxes, and anything else incidental and necessary to complete the work. **Mounting shall of system shall be specialized clamps for mounting all components (rails, panels, conduit, etc.) to the standing seam metal roof to avoid penetrations into the metal roof.**	LS	1		
6	Installation of interactive power inverters	LS	1		
7	Installation of real-time solar production monitoring equipment with recording capabilities, including all necessary wiring, conduit, switches, enclosures, and anything else incidental and necessary to complete the work.	LS	1		
TOTAL [Base Bid]					

Total BASE BID Price for ***Beacon Highway Garage Rooftop Solar Array*** (Item Nos. 1 - 7):

_____

(in words)

IF BIDDER is:

INDIVIDUAL

By _____ *[Seal]*

(Individual's Name)

doing business as _____

Business address: _____

Telephone #: _____

PARTNERSHIP

By _____ *[Seal]*

(Firm Name)

_____

(General Partner)

doing business as _____

Business address: _____

Telephone #: _____

CORPORATION

By _____ *[Corporate Seal]*

(Corporation Name)

_____

(State of Corporation)

By _____

(Name of Person Authorized to Sign)

_____

(State of Corporation)

Attest: _____

(Secretary)

Business address: _____

Telephone #: _____

JOINT VENTURE

By _____

(Name)

_____

(Address)

By _____

(Name)

_____

(Address)

(Each joint venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

BID BOND (PENAL SUM FORM)

Bidder Name: Address *(principal place of business)*:	**Surety** Name: Address *(principal place of business)*:
Owner Name: **City of Beacon** Address *(principal place of business)*: **1 Municipal Plaza** **Beacon, NY 12508**	**Bid** Project *(name and location)*: Bid Due Date:
Bond Penal Sum: Date of Bond:	
Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth in this Bid Bond, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.	
Bidder	Surety
_____ *(Full formal name of Bidder)*	_____ *(Full formal name of Surety) (corporate seal)*
By: _____ *(Signature)*	By: _____ *(Signature) (Attach Power of Attorney)*
Name: _____ *(Printed or typed)*	Name: _____ *(Printed or typed)*
Title: _____	Title: _____
Attest: _____ *(Signature)*	Attest: _____ *(Signature)*
Name: _____ *(Printed or typed)*	Name: _____ *(Printed or typed)*
Title:	Title:
Notes: (1) Note: Addresses are to be used for giving any required notice. (2) Provide execution by any additional parties, such as joint venturers, if necessary.	

EJCDC® C-430, Bid Bond (Penal Sum Form).
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1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond will be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder occurs upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation will be null and void if:
    3.1. Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
    3.2. All Bids are rejected by Owner, or
    3.3. Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions does not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action will be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety, and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond will be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder must be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Postal Service registered or certified mail, return receipt requested, postage pre-paid, and will be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond will be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute governs and the remainder of this Bond that is not in conflict therewith continues in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

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NON-COLLUSIVE BIDDING CERTIFICATION

(General Municipal Law 103-d)

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, communications, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor:

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

3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit a bid for the purposes of restricting competition.

The foregoing statement has been read and subscribed by the undersigned bidder and is hereby affirmed as true under the penalties of perjury.

[Seal]

_____
Company Name

_____
Name & Title

_____
Signature

_____
Address

_____
City & State

_____ /
Telephone Number/Facsimile Number

_____
E-mail Address

_____
Federal ID Number

_____
Date

GOODS AND SERVICES AGREEMENT

THIS AGREEMENT, made and executed this _____ day of _____, 2025 by and between the City of Beacon, a municipal corporation and city of the State of New York, with principal offices at 1 Municipal Plaza, Beacon, New York 12508 (the "City") and _____, with principal offices at _____ (the "Contractor").

WHEREAS, the City solicited bids for BEACON HIGHWAY GARAGE ROOFTOP SOLAR ARRAY; and

WHEREAS, the Contractor submitted a bid in response to the solicitation;

NOW THEREFORE, in consideration of the mutual promises and covenants contained in this Agreement, the parties agree as follows:

ARTICLE 1: SCOPE OF WORK

The Contractor shall perform all work and furnish all services, labor, material and equipment described in and required by the Request for Bids ("RFB") issued by the City, a copy of which is attached hereto as Attachment A**.** Project consists of the design, engineering, permitting, installation, inspections, interconnection, monitoring, maintenance, and commissioning of a solar array on the City's highway garage. The Contractor shall perform all work and furnish all services, labor, material and equipment in accordance with the specifications and conditions included in and/or attached to the RFB, unless otherwise specifically stated in this Agreement. The Contractor must satisfy the performance requirements, if any, contained in the RFB and in the technical specifications attached to the RFB. The Contractor represents that it has the requisite knowledge and skills to perform all work and furnish all services, labor, material and equipment described in and required by the RFB (See Attachment A). Contractor shall be an approved contractor by NYSERDA and comply with the NY-Sun program requirements.

The Contractor must comply with the prevailing wage rates that are applicable to the labor and services to be provided. All wages and supplements paid to laborers performing any work pursuant to this Agreement shall be paid not less than the wages and supplements in the applicable New York State Department of Labor ("NYSDOL") Prevailing Wage Schedule for Dutchess County, specifically Prevailing Wage Schedule PRC# 2025010411. New York State Prevailing Wage Rates are subject to change annually on July 1st. The Contractor must comply with the wages and supplements posted by NYSDOL July 1st every year. If federal grant monies are funding any of the work to be performed or any of the services, labor, materials or equipment to be furnished, the Contractor also must comply with the Davis-Bacon Act, 40 U.S.C. § 3141 et seq., as supplemented by regulations of the U.S. Department of Labor, 29 CFR Part 5, which requires the Supplier to pay wages to laborers and mechanics at a rate not less than prevailing wages specified in a wage determination made by the U.S. Secretary of Labor. The Contractor must pay wages not less than once a week.

ARTICLE 2: TIME OF PERFORMANCE

The Contractor shall perform all work and furnish all services, labor, material and equipment described within the time stated in the RFB, unless otherwise stated herein, subject to any adjustments authorized through an amendment of this Agreement. Upon issuance of Notice to Proceed, Contractor shall have 75 calendar days to complete the scope of work. Time is of the essence for all work, services, material and equipment to be performed pursuant to

this Agreement as described in Article 1 herein and as described in the RFB (See Attachment A). The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

The Date of Final Completion is the date all of work, services, labor, material and equipment required under the Contract Documents is completed, all required materials, equipment and documents required by the Contract Documents have been delivered to the City (e.g., Record Drawings, O&M manuals, etc.), and all applicable licenses, permits, certificates, or approvals have been obtained for the City's beneficial use of the work, services, labor, material and equipment required under the Contract Documents.

ARTICLE 3: CONTRACT DOCUMENTS

The following documents form the Agreement, and all are as fully a part of the Agreement as if attached to this Agreement or repeated herein and shall be referred to herein as the "Contract Documents":

1. This Agreement.
2. Amendments to this Agreement that are mutually agreed upon by the parties.
3. The City's Request for Bid with all Addenda (Attachment A), including but not limited to any instructions for the bidders, bidding procedures and requirements, qualifications of bidders, specifications, technical specifications, drawings, conditions (general, supplementary and any other conditions) included therein and any Bid Addenda issued prior to the bid opening.
4. All other attachments to this Agreement.

In the event of any conflict among the provisions of the Contract Documents or between the Contract Documents and any applicable standard, code, statute, regulation or ordinance, those provisions most favorable to the City shall govern. In the event of any conflict among the provisions of the Contract Documents or between the Contract Documents and any applicable standard, code, statute, regulation or ordinance, the Contractor shall notify the City of same, comply with the more stringent requirement and comply with the City's interpretation. Where there is a conflict in quantity, unless otherwise directed by the City, the Contractor shall provide the greater quantity. Where there is a conflict in quality, unless otherwise directed by the City, the Contractor shall provide the superior quality.

This Agreement, including all of the Contract Documents, represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral, with respect to the subject of this Agreement.

ARTICLE 4: COMPENSATION

For the above-described Scope of Work (see Article 1), the City shall pay the Contractor a sum not to exceed $_____, subject to any adjustment authorized through an amendment of this Agreement. This lump sum includes all costs, expenses, overhead and profit of the Contractor and no other compensation shall be due for the work performed, unless this sum is adjusted through an amendment of this Agreement.

Payment of any invoice or claim shall not preclude the City from making a claim for adjustment on any item found not to have been in accordance with the Contract Documents.

The Contractor shall submit invoices and payment requisitions by the 10th of each month for the percentage of the work performed and labor, materials and equipment furnished in the prior calendar month, which invoices must be supported by the following documentation:

a. Invoice must reference purchase order number issued to the Contractor by City;

b. Certified payroll(s); and

e. Any other documentation required by the Contract Documents or requested by the City to confirm the work performed and labor, materials and equipment furnished.

Payment will be made after receipt of an invoice with all required supporting documentation in accordance with the terms of the RFB (Attachment A). If payment of invoices is not addressed in RFB, then replace prior sentence with: Payment will be made within thirty (30) days after receipt of an invoice with all required supporting documentation less five percent of the sum earned. The five percent retainage shall be paid in the final payment when all work has been performed and all services, labor, material and equipment furnished in accordance with the Contract Documents.

ARTICLE 5: AGREEMENT TERMINATION

The City may suspend or terminate this Agreement by providing the Contractor with ten (10) days written notice for the reasons outlined as follows:

1. Failure of the Contractor, for any reason, to fulfill in a timely and proper manner its obligations under this Agreement.

2. Violation of any of the provisions of this Agreement by the Contractor.

3. A determination by the City that the Contractor has engaged in fraud, waste, mismanagement, misuse of funds, or criminal activity with any funds provided by this Agreement.

The City may also terminate this Agreement at any time for convenience by providing the Contractor written notice specifying therein the termination date which shall be no sooner than thirty (30) days from the issuance of said notice.

Upon receipt of a notice of termination, the Contractor shall cease to incur additional expenses in connection with the Agreement. Upon termination of the Agreement for the City's convenience, the Contractor shall be entitled to compensation for all work performed and all services, labor, material and equipment furnished prior to the termination date as reasonably determined by the City. Such payment shall not exceed the fair value of the services provided hereunder. Upon termination of the Agreement by the City for cause, the Contractor shall be entitled to compensation for all work performed and all services, labor, material and equipment furnished in accordance with the Contract Documents less any damages and/or expenses incurred by the City as a result of the Contractor's acts or omissions in the performance of this Agreement as reasonably determined by the City. Such payment shall not exceed the fair value of the services provided hereunder.

ARTICLE 6: INSPECTION

The City shall have the right to inspect the work performed by the Contractor and the services, materials and equipment furnished by the Contractor at all times, but such inspection shall not relieve the Contractor of responsibility for the proper performance of the Scope of Work (see Article 1). It is the Contractor's responsibility to ensure that all required third party electrical inspections and building inspections are carried out.

ARTICLE 7: INDEMNIFICATION

To the maximum extent permitted by law, the Contractor shall indemnify, defend and hold harmless the City and its respective elected officials, officers, agents, and employees from and against any and all losses, damages, detriments, suits, claims, demands, liabilities, costs and charges, including reasonable attorneys' fees and disbursements that (1) arise directly or indirectly from or are in any way related to the performance under this Agreement, (2) to the extent they arise from any negligent act or omission of the Contractor and/or its contractors, employees, volunteers or subcontractors; or (3) result from any default of this Agreement or any provision hereof by the Contractor. The Contractor shall be solely responsible for all local taxes or contributions imposed or required under the Social Security, Workers' Compensation, and Income Tax laws. The terms of this Article 7 shall not be construed as a limitation of the Contractor's liability under the Agreement or as otherwise provided by law. The obligation of the Contractor to indemnify any party under this Article 7 shall not be limited in any manner by any limitation of the amount of insurance coverage or benefits including worker's compensation or other employee benefit acts provided by the Contractor.

If any action by the Contractor or its employees, consultants, contractors, or subcontractors results in damage to the real or personal property of the City, the Contractor shall repair or cause to be repaired such damage at its sole cost and expense.

The Contractor shall defend and hold the City harmless against any and all claims and suits based on a claim that the operation of any equipment furnished by the Contractor infringes on any U.S. patent under which the City is not licensed.

ARTICLE 8: APPLICABLE LAW

The Contractor, at its sole cost and expense, agrees to comply with all applicable local, state, and federal laws, statutes, ordinances, regulations, rules, requirements and orders relating to work to be performed and the services, labor, materials and equipment to be furnished pursuant to this Agreement and the Contract Documents. This Agreement shall be governed by and construed in accordance with the laws of the State of New York.

ARTICLE 9: ASSIGNMENT

The Contractor shall not make any assignment, transfer, conveyance, sublet or otherwise dispose of all or any part of its rights and obligations under this Agreement without the prior written consent of the City.

ARTICLE 10: AMENDMENTS

All amendments or any changes to the provisions specified in this Agreement can only occur when mutually agreed upon by the City and the Contractor. Further, such amendments or changes shall be in writing and signed by officials with the authority to bind the City.

Additionally, all amendments and changes shall be approved by the City prior to execution. No amendment or change to the Agreement provisions shall be made until after the written execution of the amendment or change to the Agreement by both parties.

ARTICLE 11: INSURANCE AND BONDS

The Contractor shall be responsible to the City or any third party for any property damage or bodily injury caused by it, any of its subcontractors, employees, or agents in the performance of, or as a result of, the performance of this Agreement. The Contractor hereby certifies that the Contractor and any subcontractors retained or to be retained, with the consent of the City, by the Contractor have and shall maintain the types and amounts of insurance set forth in this Article 11 and such insurance complies with the terms and conditions set forth in this Article 11.

A. **Insurance Requirements**.

1. No work shall commence and the City has the option to void this Agreement unless the Contractor, at its sole cost and expense, shall secure and deliver a certificate(s) of insurance dated within five (5) days of the date of the signing of this Agreement and showing that the required insurance coverage is in effect and has been obtained from an insurer that is admitted and licensed to issue insurance and to do business in New York State. The Contractor shall maintain such insurance coverage as will protect itself, its subcontractors, and unless otherwise specified, the City, its agents, servants and employees, the Project Architect and/or Engineer(s), and Dutchess County Community Development as additional named insureds, from any all claims for Bodily Injuries, Death or Property Damage which may arise from operations under this Agreement whether such operations be by the Contractor or by any subcontractor or anyone employed by the Contractor directly or indirectly, or any other party who may be injured, claim injuries or die.

2. The Contractor shall furnish original, signed/notarized Certificates of Insurance in duplicate, with the project name and number (if any) stated on the certificates and submit prior to the beginning performance under this Agreement. Attached to each certificate of insurance shall be a copy of the Additional Insured Endorsement that is part of the Contractor's Commercial General Liability Policy, automotive and excess liability/umbrella policies. The coverage and amounts below are minimum requirements and do not establish limits to the Contractor's liability. Other coverage and higher limits may be provided at the Contractor's option and expense.

3. Worker's Compensation at statutory limits. New York State Disability Insurance and Paid Family Leave for all employees in New York. Employers' Liability for all employees in New York in an amount not less than $500,000.00.

4. Commercial General Liability and Contractual Liability insurance to be provided on an "occurrence" basis, with coverage to include explosion, collapse and underground hazards (XCU). Blanket Contractual Products, Independent Contractors Completed Operations, Personal Injury, and Employees as additional insured, with limits of coverage to be:

    a. Bodily Injury, Property Damage and Personal Injury Limits:

1) $1,000,000 each occurrence (Bodily Injury and Property Damage)
2) $2,000,000 General aggregate
3) $2,000,000 Products and Completed Operations Aggregate
4) $1,000,000 Personal and advertising injury

b. Aggregate shall apply to this project only (aggregate not to include other projects) and must be identified as such on the certificate of insurance.

5. Automotive Liability insurance including owned, non-owned, borrowed and hired automobiles with limits of coverage to be $1,000,000 each occurrence for bodily injury and property damage (insurance on automobiles of subcontractors and material suppliers must meet the same requirements).

6. Umbrella/Excess Liability to provide insurance in excess of Employer's Liability, Commercial General Liability, and Automobile Liability policies required hereunder in the amount of $1,000,000 each occurrence and in the aggregate.

7. The Contractor is responsible for insuring its own equipment, tools, and real and personal property.

8. Liability Insurance under a "claims-made" policy is not acceptable. Coverage must be provided on an "occurrence" basis.

9. Waiver of Subrogation: The Contractor waives all rights against the City and its agents, officers, directors and employees for recovery of damages to the extent the damages are covered by commercial general liability, umbrella liability, auto liability or workers compensation and employer's liability insurance maintained per requirements stated above.

B. Payment and Performance Bonds

1. The Contractor shall, at its cost and expense, furnish bonds in the amount of 100 percent of the amount to be paid pursuant to this Agreement (the "Contract Sum") covering the faithful performance of this Agreement and the payment of all obligations arising thereunder, in such form as the City may prescribe in this Article 11 and with such sureties as the City may approve. If the Contract Sum changes, the value of the bonds shall be adjusted to match the Contract Sum. The amount of the payment and performance bonds shall remain in full force and effect during the term of any warranty or guarantee to be furnished hereunder, and in no event for a period of less than one year following the issuance of final payment. The Contractor shall keep the surety informed of any and all changes in the amount of this Agreement. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety insurance/bonds in New York State.

2. No work shall commence and the City has the option to void this Agreement unless the Contractor, at its sole cost and expense, shall secure and deliver to the City payment and performance bonds that comply with the requirements of this Article 11 and the Contract Documents within five (5) days of the date of the signing of this Agreement. The attorney in fact who executes the

required bonds on behalf of the surety, shall affix thereto a certified and current copy of the power of attorney.

3. The bonds shall be written on EJCDC Document C-610-2018 Performance Bond and C-615-2018 Payment Bond and shall contain the following provisions in the modifications section of each bond or contain the following provisions in a rider attached to each bond that is referenced in the modifications section of each bond (for purposes of this paragraph Owner refers to the City and Contractor refers to the Contractor):

   .1 Surety hereby agrees that it consents to and waives notice of any addition, alteration, omission, change, or other modification of the Contract Documents. Such addition, alteration, change, extension of time, or other modification of the Contract Documents, or a forbearance on the part of either the Owner or the Contractor to the other, shall not release the Surety of its obligations hereunder and notice to the Surety of such matters is hereby waived.

   .2 Surety further agrees that in event of any default by the Owner in the performance of the Owner's obligations to the Contractor under the Contract, the Contractor or Surety shall cause written notice of such default (specifying said default in detail) to be given to the Owner, and the Owner shall have fifteen (15) days after receipt of such notice within which to cure such default, or such additional reasonable period of time as may be required if the nature of such default is such that it cannot be cured within fifteen (15) days. Such Notice of Default shall be sent by certified or registered U.S. Mail, return receipt requested, first class postage prepaid, to the Owner.

   .3 Any proceeding, legal or equitable, under the Payment Bond may be instituted in any court of competent jurisdiction in the County of Dutchess in the State of New York and shall be instituted within three years after termination by the Owner of the Contractor's contract or within three years after final completion by the Contractor. In the event the Contractor files for bankruptcy, the commencement of the three year period shall not start to run until the bankruptcy proceeding is finalized or the Owner obtains relief from an automatic stay, whichever is later.

3. The Contractor shall keep its surety informed of the progress of the Scope of Work, and, when necessary, obtain the surety’s consent to, or waiver of: (1) request for reduction or release of retainage; (2) request for final payment; and (3) any other material required by the surety. The City may, in the City’s sole discretion and without prior notice to the Contractor, through the Project Architect/Engineer or directly, inform the Contractor’s surety of the progress of the Contractor’s work and obtain consents as necessary to protect the City’s rights, interest, privileges and benefits under and pursuant to any bond issued in connection with this Agreement.

4. Upon the request of any person or entity appearing to be a potential beneficiary of the bonds covering payment of obligations arising under this Agreement, the Contractor shall promptly furnish a copy of the bonds and consents to the City or the Project Architect/Engineer furnishing a copy of the bonds to the potential beneficiaries upon request.

ARTICLE 12: INDEPENDENT CONTRACTOR

The Contractor and all its employees, officers, directors, associates, consultants, subcontractors, and agents shall be independent contractors to the City and shall not claim or receive any benefit or privilege conferred to the City employees, including, without limitation, disability or unemployment insurance, workers' compensation, medical insurance, sick leave, retirement, or any other employment benefit. The City shall not be responsible for the Contractor's compliance with any local, state, or federal law, regulation or requirement and shall not withhold any taxes, including payroll or income taxes, for the Contractor or any employee, officer, director, associate, subcontractor, consultant or agent thereof. The Contractor will indemnify the City for any tax liability, interest, and/or penalties imposed upon the City by any taxing authority based upon the City's failure to withhold any amount from the payments for tax purposes. The Contractor exclusively assumes responsibility for the acts of its employees, officers, directors, associates, consultants, subcontractors, and agents as they relate to this Agreement.

ARTICLE 13: NOTICES

All notices required or permitted to be given under this Agreement shall be in writing and shall be given by certified mail return receipt requested or by overnight or express mail services, addressed to the parties as designated below. Each such notice sent by overnight or express mail shall be deemed effective on the next business day after being dispatched and notices sent by certified mail shall be deemed effective on the fifth business day after being dispatched. Each party may change its address for written notice by giving written notice of such change in accordance with this Article 13. Notices shall be addressed to each party as follows:

As to the City:
City Hall, City of Beacon
1 Municipal Plaza
Beacon, NY 12508
Attn: Chris White, City Administrator

-and-

Keane & Beane, P.C.
445 Hamilton Avenue, Suite 1500
White Plains, NY 10601
Attn: Nicholas M. Ward-Willis, Esq.

As to the Contractor:
_____
_____
Attn: _____

ARTICLE 14: CHOICE OF LAW AND VENUE

This Agreement shall be governed by, and interpreted under, the laws of the State of New York, without consideration to its conflict of law's provisions. The venue for mediation, arbitration or legal proceedings arising out of this Agreement shall be Dutchess County in the State of New York. The parties agree that all actions or proceedings arising in connection with this Agreement shall be tried and litigated only in the State and Federal courts of Dutchess

County in the State of New York. Each party hereby waives any right or claims that venue is improper in such a court.

ARTICLE 15: WAIVER

The failure of either party to enforce, at any time, any provision of this Agreement shall not constitute a waiver of such provision in any way or waive the rights of either party at any time to avail itself of such remedies as it may have for any breach or breaches of such provision. None of the conditions of this Agreement shall be considered waived by either party unless such waiver is given in writing by the waiving party. No such waiver shall be a waiver of any past or future default, breach, or modification or any of the terms or conditions of this Agreement unless expressly stipulated in such waiver.

ARTICLE 16: SEVERABILITY

If any term, provision, covenant or condition of this Agreement, or the application thereof to any person, place or circumstance, shall be held by a court of competent jurisdiction to be invalid, unenforceable or void, the remainder of this Agreement and such term, provision, covenant or condition as applied to other persons, places and circumstances shall remain in full force and effect.

ARTICLE 17: COUNTERPARTS

This Agreement may be executed in counterparts each of which shall be deemed an original and all of which taken together shall constitute one and the same Agreement. Delivery of an executed counterpart of this Agreement by facsimile or email shall be equally as effective as delivery of a manually executed counterpart of this Agreement.

ARTICLE 18: AUTHORITY TO ENTER AGREEMENT

The undersigned representative of the Contractor hereby represents and warrants that the undersigned is the owner or an officer, director, or agent of the Contractor with full legal rights, power and authority to enter into this Agreement on behalf of the Contractor and to bind the Contractor with respect to the obligations enforceable against the Contractor in this Agreement.

_____ (CONTRACTOR)

BY: _____
Signature

NAME: _____
Name Printed

TITLE: _____

DATE: _____

CITY OF BEACON

BY: _____

NAME: Christopher White

TITLE: City Administrator, City of Beacon

DATE: _____

PERFORMANCE BOND

Contractor	**Surety**
Name:	Name:
Address *(principal place of business)*:	Address *(principal place of business)*:
Owner	**Contract**
Name: **City of Beacon**	Description *(name and location)*:
Mailing address *(principal place of business)*:	
1 Municipal Plaza	
Beacon, NY 12508	Contract Price:
	Effective Date of Contract:

Bond

Bond Amount:

Date of Bond:

(Date of Bond cannot be earlier than Effective Date of Contract)

Modifications to this Bond form:

☐ None ☐ See Paragraph 16

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth in this Performance Bond, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

Contractor as Principal	Surety
_____	_____
(Full formal name of Contractor)	*(Full formal name of Surety) (corporate seal)*
By: _____	By: _____
(Signature)	*(Signature)(Attach Power of Attorney)*
Name: _____	Name: _____
(Printed or typed)	*(Printed or typed)*
Title: _____	Title: _____
Attest: _____	Attest: _____
(Signature)	*(Signature)*
Name: _____	Name: _____
(Printed or typed)	*(Printed or typed)*
Title: _____	Title: _____

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party is considered plural where applicable.

EJCDC® C-610, Performance Bond.
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1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2. If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Paragraph 3.

3. If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond will arise after:

    3.1. The Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice may indicate whether the Owner is requesting a conference among the Owner, Contractor, and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Paragraph 3.1 will be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor, and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement does not waive the Owner's right, if any, subsequently to declare a Contractor Default;

    3.2. The Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

    3.3. The Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

4. Failure on the part of the Owner to comply with the notice requirement in Paragraph 3.1 does not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

5. When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

    5.1. Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

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

    5.3. Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owners concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

    5.4. Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:

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5.4.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

5.4.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

6. If the Surety does not proceed as provided in Paragraph 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Paragraph 5.4, and the Owner refuses the payment, or the Surety has denied liability, in whole or in part, without further notice, the Owner shall be entitled to enforce any remedy available to the Owner.

7. If the Surety elects to act under Paragraph 5.1, 5.2, or 5.3, then the responsibilities of the Surety to the Owner will not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety will not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication for:

   7.1. the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

   7.2. additional legal, design professional, and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 5; and

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

8. If the Surety elects to act under Paragraph 5.1, 5.3, or 5.4, the Surety's liability is limited to the amount of this Bond.

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

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

11. Any proceeding, legal or equitable, under this Bond must be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and must be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum periods of limitations available to sureties as a defense in the jurisdiction of the suit will be applicable.

12. Notice to the Surety, the Owner, or the Contractor must be mailed or delivered to the address shown on the page on which their signature appears.

13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement will be deemed deleted therefrom and provisions conforming to such

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statutory or other legal requirement will be deemed incorporated herein. When so furnished, the intent is that this Bond will be construed as a statutory bond and not as a common law bond.

14. Definitions

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

    14.2. *Construction Contract*—The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

    14.3. *Contractor Default*—Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

    14.4. *Owner Default*—Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

    14.5. *Contract Documents*—All the documents that comprise the agreement between the Owner and Contractor.

15. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond will be deemed to be Subcontractor and the term Owner will be deemed to be Contractor.

16. Modifications to this Bond are as follows: **[Describe modification or enter "None"]**

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PAYMENT BOND

Contractor	**Surety**
Name:	Name:
Address *(principal place of business)*:	Address *(principal place of business)*:
Owner	**Contract**
Name: **City of Beacon** Mailing address *(principal place of business)*: **1 Municipal Plaza** **Beacon, NY 12508**	Description *(name and location)*: Contract Price: Effective Date of Contract:

Bond

Bond Amount:

Date of Bond:

(Date of Bond cannot be earlier than Effective Date of Contract)

Modifications to this Bond form:

☐ None ☐ See Paragraph 18

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth in this Payment Bond, do each cause this Payment Bond to be duly executed by an authorized officer, agent, or representative.

Contractor as Principal	Surety
_____	_____
(Full formal name of Contractor)	*(Full formal name of Surety) (corporate seal)*
By: _____	By: _____
(Signature)	*(Signature)(Attach Power of Attorney)*
Name: _____	Name: _____
(Printed or typed)	*(Printed or typed)*
Title: _____	Title: _____
Attest: _____	Attest: _____
(Signature)	*(Signature)*
Name: _____	Name: _____
(Printed or typed)	*(Printed or typed)*
Title: _____	Title: _____

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party is considered plural where applicable.

EJCDC® C-615, Payment Bond.
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1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner to pay for labor, materials, and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

2. If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies, and holds harmless the Owner from claims, demands, liens, or suits by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

3. If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond will arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Paragraph 13) of claims, demands, liens, or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, and tendered defense of such claims, demands, liens, or suits to the Contractor and the Surety.

4. When the Owner has satisfied the conditions in Paragraph 3, the Surety shall promptly and at the Surety's expense defend, indemnify, and hold harmless the Owner against a duly tendered claim, demand, lien, or suit.

5. The Surety's obligations to a Claimant under this Bond will arise after the following:

    5.1. Claimants who do not have a direct contract with the Contractor

        5.1.1. have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and

        5.1.2. have sent a Claim to the Surety (at the address described in Paragraph 13).

    5.2. Claimants who are employed by or have a direct contract with the Contractor have sent a Claim to the Surety (at the address described in Paragraph 13).

6. If a notice of non-payment required by Paragraph 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Paragraph 5.1.1.

7. When a Claimant has satisfied the conditions of Paragraph 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

    7.1. Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

    7.2. Pay or arrange for payment of any undisputed amounts.

    7.3. The Surety's failure to discharge its obligations under Paragraph 7.1 or 7.2 will not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Paragraph 7.1 or 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

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8. The Surety's total obligation will not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Paragraph 7.3, and the amount of this Bond will be credited for any payments made in good faith by the Surety.

9. Amounts owed by the Owner to the Contractor under the Construction Contract will be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfying obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

10. The Surety shall not be liable to the Owner, Claimants, or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to or give notice on behalf of Claimants, or otherwise have any obligations to Claimants under this Bond.

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

12. No suit or action will be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Paragraph 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit will be applicable.

13. Notice and Claims to the Surety, the Owner, or the Contractor must be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, will be sufficient compliance as of the date received.

14. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement will be deemed deleted here from and provisions conforming to such statutory or other legal requirement will be deemed incorporated herein. When so furnished, the intent is that this Bond will be construed as a statutory bond and not as a common law bond.

15. Upon requests by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

16. Definitions

    16.1. *Claim*—A written statement by the Claimant including at a minimum:

        16.1.1. The name of the Claimant;

        16.1.2. The name of the person for whom the labor was done, or materials or equipment furnished;

        16.1.3. A copy of the agreement or purchase order pursuant to which labor, materials, or equipment was furnished for use in the performance of the Construction Contract;

        16.1.4. A brief description of the labor, materials, or equipment furnished;

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16.1.5. The date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;

16.1.6. The total amount earned by the Claimant for labor, materials, or equipment furnished as of the date of the Claim;

16.1.7. The total amount of previous payments received by the Claimant; and

16.1.8. The total amount due and unpaid to the Claimant for labor, materials, or equipment furnished as of the date of the Claim.

16.2. *Claimant*—An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond is to include without limitation in the terms of "labor, materials, or equipment" that part of the water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

16.3. *Construction Contract*—The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

16.4. *Owner Default*—Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

16.5. *Contract Documents*—All the documents that comprise the agreement between the Owner and Contractor.

17. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond will be deemed to be Subcontractor and the term Owner will be deemed to be Contractor.

18. Modifications to this Bond are as follows: **[Describe modification or enter "None"]**

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NOTICE OF AWARD

Dated: _____

TO: _____

(Bidder)

ADDRESS: _____

_____

_____

PROJECT: Beacon Highway Garage Rooftop Solar Array

OWNER'S CONTRACT NO.: _____

CONTRACT FOR: Beacon Highway Garage Rooftop Solar Array, City of Beacon, Dutchess County, New York

(Insert name of Contract, as it appears in the Bidding Documents)

You are notified that your Bid dated _____ for the above Contract has been considered.

You are the apparent Successful Bidder and have been awarded a contract for: _____

_____

(Indicate total work, alternates or section or work awarded)

The Contract Price of your contract is _____

_____Dollars ($_____)

_____ copies of each the proposed Contract Documents (except Drawings) accompany this Notice of Award.

_____ sets of the Drawings will be delivered separately or otherwise made available to you immediately.

You must comply with the following conditions precedent within ten (10) days of the date of this Notice of Award, that is by _____

1. You must deliver to the Owner __ fully executed counterparts of the Agreement including all the Contract Documents. This includes _____ sets of Drawings. Each of the Contract Documents and sets of Drawings must bear your signature on the cover page.

2. You must deliver with the executed Agreement the Contract Security (Bonds) as specified in the Instructions to Bidders, General Conditions (¶ 5.1) and Supplementary Conditions.

-over-

3.(List other conditions precedents).

Failure to comply with these conditions within the time specified will entitle OWNER to consider your bid in default, to annul this Notice of Award and to declare your Bid Security forfeited.

After you comply with the above conditions, OWNER will return to you one fully signed counterpart of the Agreement with the Contract Documents attached.

City of Beacon
(Owner)

BY: _____
(Authorized Signature) Christopher White

City Administrator
(Title)

ACCEPTANCE OF AWARD

_____
(Contractor)

BY: _____
(Authorized Signature)

_____
(Title)

_____
(Date)

COPY to ENGINEER (Via Certified Mail, Return Receipt Requested)

NOTICE TO PROCEED

Dated: _____

TO: _____

(Contractor)

ADDRESS: _____

_____

PROJECT: Beacon Highway Garage Rooftop Solar Array

OWNER'S CONTRACT NO.: _____

CONTRACT FOR: Beacon Highway Garage Rooftop Solar Array, City of Beacon, Dutchess County, NY

(Insert name of Contract, as it appears in the Bidding Documents)

You are notified that the Contract Times under the above contract will commence to run on _____.

By that date, you are to start performing your obligations under the Contract Documents. In accordance with the Agreement the date of completion and readiness for final payment is _____.

Before you may start any Work at the site, ¶2.7 of the General Conditions provides that you and Owner must each deliver to the other (with copies to ENGINEER and other identified additional insurers) certificates of insurance which each is required to purchase and maintain in accordance with the Contract Documents.

Also, before you may start any Work at the site, you must (add other requirements):

_____

_____

_____

City of Beacon
(Owner)

By: _____
(Authorized Signature) Christopher White

City Administrator
(Title)

ACCEPTANCE OF AWARD

_____
(Contractor)

By: _____
(Authorized Signature)

_____
(Title)

_____
(Date)

CHANGE ORDER

(Instructions on reverse side) No._____

PROJECT .....

DATE OF ISSUANCE ..... EFFECTIVE DATE .....

OWNER .....

OWNER's Contract No. .....

CONTRACTOR ..... ENGINEER .....

You are directed to make the following changes in the Contract Documents.

Description:

Reason for Change Order:

Attachments: (List documents supporting change)

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price $ _____	Original Contract Times Substantial Completion: _____ Ready for final payment: _____ days or dates
Net changes from previous Change Orders No. ____ to No. ____ $ _____	Net change from previous Change Orders No. ____ to No. ____ _____ days
Contract Price prior to this Change Order $ _____	Contract Times prior to this Change Order Substantial Completion: _____ Ready for final payment: _____ days or dates
Net Increase (decrease) of this Change Order $ _____	Net Increase (decrease) of this Change Order _____ days
Contract Price with all approved Change Orders $ _____	Contract Times with all approved Change Orders Substantial Completion: _____ Ready for final payment: _____ days or dates

RECOMMENDED:	APPROVED:	ACCEPTED:
By: _____ Engineer (Authorized Signature)	By: _____ Owner (Authorized Signature)	By: _____ Contractor (Authorized Signature)
Date: _____	Date: _____	Date: _____

EJCDC No. 1910–8-B (1990 Edition)
Prepared by the Engineers Joint Contract Documents Committee and endorsed by The Associated General Contractors of America.

CONTRACTOR & SUBCONTRACTOR AFFIDAVIT FOR RELEASE OF RETAINAGE
and/or
FINAL PAYMENT

_____ _____
Municipality Contractor

_____ Address: _____
Project

_____ _____
Contract No.

_____
Telephone No.

State of _____}
} S.S.:
County of _____}

_____, being duly sworn deposes and says:

1. He is the _____(TITLE) of the contractor on the above referenced project and makes this affidavit in the regular course of business with full authorization.

2. There are no claims, liens, or judgements against the contractor except as set forth herein:

_____
(Insert "No Exceptions", if applicable - or - attach list, if necessary)

3. All provisions of the Labor Law of the State of New York have been fully complied with except as set forth herein:

_____
(Insert "No Exceptions", if applicable - or - attach list, if necessary)

4. The municipality upon the release of retainage requested herewith, is released of any and all claims by the contractor with respect to the project to the date hereof.

5. This certification is made to include the municipality to release final payment and/or retainage held pursuant to the contract in accordance with General Municipal Law §106-b.

_____
Signature

Subscribed and sworn to before
me on _____

Affix Seal,
if Corporation

_____
Notary Public

GENERAL CONDITIONS

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ARTICLE 1 - DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

A. Wherever used in the Contract Documents and printed with initial or all capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof.

1. Addenda - Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the Contract Documents.

2. *Agreement - The* written instrument which is evidence of the agreement between OWNER and CONTRACTOR covering the Work.

3. *Application for Payment -The* form acceptable to ENGINEER which is to be used by CONTRACTOR during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

4. *Asbestos-Any* material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

5. Bid-The offer or proposal of a bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

6. *Bidding Documents-The* Bidding Requirements and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

7. *Bidding Requirements-The* Advertisement or Invitation to Bid, Instructions to Bidders, Bid security form, if any, and the Bid form with any supplements.

8. *Bonds-Performance* and payment bonds and other instruments of security.

9. *Change Order-A* document recommended by ENGINEER which is signed by CONTRACTOR and OWNER and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.

10. *Claim-A* demand or assertion by OWNER or CONTRACTOR seeking an adjustment of Contract Price • or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.

11. *Contract-The* entire and integrated written agreement between the OWNER and CONTRACTOR concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.

12. *Contract Documents-The* Contract Documents establish the rights and obligations of the parties and include the Agreement, Addenda (which pertain to the Contract Documents), CONTRACTOR's Bid (including documentation accompanying the Bid and any post Bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Notice to Proceed, the Bonds, these General Conditions, the Supplementary Conditions, the specifications and the Drawings as the same are more specifically identified in the Agreement, together with all Written Amendments, Change Orders, Work Change Directives, Field Orders, and ENGINEER's written interpretations and clarifications issued on or after the Effective Date of the Agreement. Approved Shop Drawings and the reports and drawings of subsurface and physical conditions are not Contract Documents. Only printed or hard copies of the items listed in this paragraph are Contract Documents. Files in electronic media format of text, data, graphics, and the like that may be furnished by OWNER to CONTRACTOR are not Contract Documents.

13. *Contract Price-The* moneys payable by OWNER to CONTRACTOR for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of paragraph' 11.03 in the case of Unit Price Work).

14. *Contract Times-The* number of days or the dates stated in the Agreement to: (i) achieve Substantial Completion; and (ii) complete the Work *so* that it is ready for final payment as evidenced by ENGINEER's written recommendation of final payment.

15. *CONTRACTOR-The* individual or entity with whom OWNER has entered into the Agreement.

16. *Cost of the* Work - See paragraph 11.01.A for definition.

17. Drawings-That part of the Contract Documents prepared or approved by ENGINEER which graphically shows the scope, extent, and character of the Work to be performed by CONTRACTOR. Shop Drawings and other CONTRACTOR submittals are not Drawings as so defined.

18. *Effective Dale of the Agreement-The* date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

19. *ENGINEER-The* individual or entity named as such in the, Agreement.

20. *ENGINEER's Consultant-An* individual or entity having a contract with ENGINEER to furnish services as ENGINEER's independent professional associate or consultant with respect to the Project and who is identified as such in the Supplementary Conditions.

21. *Field 0rder-A* written order issued by ENGI- NEER which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.

22. *General Requirements-Sections* of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.

23. *Hazardous Environmental Condition-The* presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto in connection with the Work.

24. *Hazardous Waste-The* term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.

25. *Laws and Regulations; Laws or Regulations - Any* and all applicable Jaws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, md courts having jurisdiction.

26. Limits - Charges, security **interests, or** encumbrances upon Project· funds, real property, or personal property.

27. *Milestone-A* principal event specified in the Contract Documents relating to an intermediate comple- tion date or time prior to Substantial Completion of all the Work.

28. *Notice of Award-The* written notice by OWNER to the apparent successful bidder stating that upon timely compliance by the apparent successful bidder with the conditl9ns precedent listed therein, OWNER will sign and deliver the Agreement.

29. *Notice to Proceed-A* written notice given by OWNER to CONTRACTOR fixing the date on which the Contract Times will commence to run and on which CONTRACTOR shall start to perform the Work under the Contract Documents.

30. *OWNER-The* individual, entity, public body, or authority with whom CONTRACTOR has entered into the Agreement and for whom the Work is to. be performed.

31. *Partial Utilization-Use* by OWNER of a substantially completed part of (the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all the Work.

32. PCBs-Polychlorinated biphenyls.

33. *Petroleum-Petroleum,* including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.

34. *Project-The* total construction of which the Work to be performed under the Contract Documents may be the whole, or a part as may be indicated elsewhere in the Contract Documents.

35. *Project Manual -The* bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which) may be bound in one or more volumes, is contained in the table(s) of contents.

36. *Radioactive Material - Source,* special nuclear, or by product material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

37. *Resident Project Representative-The* authorized representative of ENGINEER who may be assigned to the Site or any part thereof.

38. Samples-Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

39. *Shop Drawings-All* drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for CONTRACTOR and submitted by CONTRACTOR to illustrate some portion of the Work.

40. *Site-Lands* or areas indicated in the Contract Documents as being furnished by OWNER upon (which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by OWNER which are designated for the use of CONTRACTOR.

41. *Specifications - That* part of the Contract Documents consisting of written technical descriptions of materials, equipment, systems, standards, and workmanship as applied to the Work and certain administrative details applicable thereto.

42. *Subcontractor-An* individual or entity having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the Site.

43. *Substantial Completion-The* time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of ENGINEER, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.

44. *Supplementary Conditions-That* part of the Contract Documents which amends or supplements these General Conditions.

45. *Supplier-A* manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by CONTRACTOR or any Subcontractor.

46. *Underground – Facilities* – All underground **pipelines, conduits, ducts, cables, wires, manholes** vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products, Telephone or other **communications, cable television, water, wastewater,** storm water, other liquids or chemicals, or traffic or other control systems.

47. *Unit Price Work-Work* to be paid for on the basis of unit prices.

48. *Work-The* entire completed construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

49. *Work Change Directive-A* written statement to CONTRACTOR issued on or after the Effective Date of the Agreement and signed by OWNER and recommended by ENGINEER ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract· Times.

50. *Written Amendment-A* written statement modifying the Contract Documents, signed by OWNER and CONTRACTOR on or after the Effective Date of the Agreement and normally dealing with the non-engineering or nontechnical rather than strictly construction-related aspects of the Contract Documents.

1.02 *Technology*

A. *Intent of Certain Terms or Adjectives*

1. Whenever in the Contract Documents the terms **"as allowed,"** "as **approved," or terms of like effect or import are used, or the adjectives "reasonable," "suitable", "acceptable," "proper", "satisfactory" or** adjectives of like effect or import are used to describe an action or determination of ENGINEER as to the Work, it is intended that such action or determination will be solely to evaluate, in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The

use of any such term or adjective shall not be effective to assign to ENGINEER any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 9.10 or any other provision of the Contract Documents.

B. *Day*

1. The word "day" shall constitute a calendar day

of 24 hours measured from midnight to the next midnight.

C. *Defective*

1. The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it does not conform to the Contract Documents or does not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents, or has been damaged prior to ENGINEER's recommendation of final payment (unless responsibility for the protection thereof has been assumed by OWNER at Substantial Completion in accordance with paragraph 14.04 or 14.05).

D. *Furnish, Install, Perform, Provide*

l. The word "furnish," when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some oilier specified location) ready for use or installation and in usable or operable condition.

2. The word "install," when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words "perform" or "provide," when used in connection with services, materials, or equipment, . shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.

4. When "furnish", "install" "perform" or "provide" is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of CONTRACTOR, "provide" is implied,

E: Unless stated otherwise in the Contract Documents, words or phrases which have a well-known technical or construction industry or trade meaning are used in 1he Contract Documents in accordance with such recognized meaning.

ARTICLE 2 - PRELIMINARY MATTERS

2.01 *Delivery of Bonds*

A. When CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER such Bonds as CONTRACTOR may be required to furnish.

2.02 *Copies of Documents*

A. OWNER shall furnish to CONTRACTOR up to ten copies of the Contract Documents. Additional copies will be furnished upon request at the cost of reproduction.

2.03 *Commencement of Contract Times; Notice to Proceed*

A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixteenth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

2.04 Starting the Work

A. CONTRACTOR shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

2.05 Before Starting Construction

A. *CONTRACTOR's Review of Contract Documents:* Before undertaking each part of the Work, CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures herein and all applicable field measurements. CONTRACTOR shall promptly report in writing to ENGINEER any conflict, error, ambiguity, or discrepancy which CONTRACTOR may discover and shall obtain a written interpretation or clarification from ENGINEER before proceeding with any Work affected hereby; however, CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless CONTRACTOR knew or reasonably should have known thereof.

B. *Preliminary Schedules:* Within ten days after the Effective Date of the Agreement (unless otherwise specified

in the General Requirements), CONTRACTOR shall submit to ENGINEER for its timely review:

1. a preliminary progress schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;

2. a preliminary schedule of Shop Drawing and Sample submittals which will list each required submittal and the times for submitting, reviewing, and processing such submittal; and

3. a preliminary schedule of values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

C. *Evidence of Insurance:* Before any Work at the Site is started, CONTRACTOR and OWNER shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which CONTRACTOR and OWNER respectively are required to purchase and maintain in accordance with Article 5.

2.06 *Preconstruction Conference*

A. Within 20 days after the Contract Times start to run, but before any Work at the Site is started, a conference attended by CONTRACTOR, ENGINEER, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in paragraph 2.05.B, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

2.07 *Initial Acceptance of Schedules*

A. Unless otherwise provided in the Contract Documents, at least ten days before submission of the first Application for Payment a conference attended by CONTRACTOR, ENGINEER, and others as appropriate will be held to review for acceptability to ENGINEER as provided below the schedules submitted in accordance with paragraph 2.05.B. CONTRACTOR shall have an additional ten days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to CONTRACTOR until acceptable schedules are submitted to ENGINEER.

1. The progress schedule will be acceptable to ENGINEER if it provides an orderly progression of the Work to completion within any specified Milestones and the Contract Times. Such acceptance will not impose on ENGINEER responsibility for the progress schedule, for sequencing, scheduling, or progress of the Work nor interfere with or relieve CONTRACTOR from CONTRACTOR's full responsibility therefor.

2. CONTRACTOR's schedule of Shop Drawing and Sample submittals will be acceptable.to ENGINEER if it provides a workable arrangement for reviewing and processing the required submittals.

3. CONTRACTOR's schedule of values will be acceptable to ENGINEER as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the Work.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.02 *Intent*

A. The Contract Documents are complementary; what is called for by one is as binding as if called for by all.

B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to OWNER.

C. Clarifications and interpretations of the Contract Documents shall be issued by ENGINEER as provided in Article 9.

3.03 *Reference Standards*

A. *Standards, Specifications, Codes, Laws, and Regulations*

1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the effective date of the Agreement if there were no Bids),

except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard, specification, manual or code, or any instruction of a Supplier shall be effective to change the duties or responsibilities of OWNER, CONTRACTOR, or ENGINEER, or any of their subcontractors, consultants, agents, or employees. from those set furth in the Contract Documents, nor shall any such provision or instruction be effective to assign to OWNER, ENGINEER, or any of ENGINEER's Consultants, agents, or employees any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

3.03 *Reporting· and Resolving Discrepancies*

A. *Reporting Discrepancies*

1. If, during the performance of the Work, CONTRACTOR discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier," CONTRACTOR shall report it to ENGINEER in writing at once. CONTRACTOR shall not proceed with the Work affected thereby (except in an emergency as required by paragraph 6..16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in paragraph 3.04; provided, however, that CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any such conflict, error, ambiguity, or discrepancy unless CONTRACTOR knew or reasonably should have known thereof.

B. *Resolving Discrepancies*

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:

a. the provisions of any standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or

b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.02 *Amending and Supplementing Contract Documents*

A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways: (i) a Written Amendment; (ii) a Change Order; or (iii) a Work Change Directive.

B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways: (i) a Field Order; (ii) ENGINEER's approval of a Shop Drawing or Sample; or (iii) ENGINEER's written interpretation or clarification.

3.03 *Reuse of Documents*

A. CONTRACTOR and any Subcontractor or Supplier or other individual or entity performing or furnishing any of the Work under a direct or indirect contract with OWNER:
(i) shall not have or acquire any title to or ownership rights in any of the Drawings; Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of ENGINEER. or ENGINEER's Consultant, including electronic media editions; and (ii) shall not reuse any of such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of OWNER and ENGINEER and specific written verification or adaption by ENGINEER. This prohibition will survive final payment, completion, and acceptance of the Work, or termination or completion of the Contract. Nothing herein shall preclude CONTRACTOR from retaining copies of the Contract Documents for record purposes.

ARTICLE 4 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS

4.01 *Availability of Lands*

A. OWNER shall furnish the Site. OWNER shall notify CONTRACTOR of any encumbrances or restrictions not of general application but specifically related to use of the Site with which CONTRACTOR must comply in-performing the Work. OWNER will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If CONTRACTOR and OWNER are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in OWNER's furnishing the Site, CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

B. Upon reasonable written request, OWNER shall furnish CONTRACTOR with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and OWNER's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.

C. CONTRACTOR shall provide for all additional lands and access thereto that may- be required for temporary construction facilities or storage of materials and equipment.

4.02 *Subsurface and Physical Conditions*

A. *Reports and Drawings:* The Supplementary Conditions identify:

1. those reports of explorations and tests of subsurface conditions at or contiguous to the Site that ENGINEER has used in preparing the Contract Documents; and

2. those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) that ENGINEER has used in preparing the Contract Documents.

B. *Limited "Reliance by CONTRACTOR on Technical Data Authorized:* CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER, or any of ENGINEER's Consultants with respect to:

l. the completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, and safety precautions. and programs incident thereto; or

2.- other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.

4.03 *Differing Subsurface or Physical Conditions*

A. *Notice:* If CONTRACTOR believes that any subsurface or physical condition at or contiguous to the Site that is uncovered or revealed either:

1. is of such a nature as to establish that any "technical data" on which CONTRACTOR *is* entitled to rely as provided in paragraph 4.02 is materially **inaccurate; or**

2. is of such a nature as to require a change in the Contract Documents; or

3. differs materially from that shown or indicated in the Contract Documents; or

4. *is* of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by paragraph 6.16.A), notify OWNER and ENGINEER in writing about such condition. CONTRACTOR shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.

B. *ENGINEER's Review:* After receipt of written notice as required by paragraph 4.03.A, ENGINEER will promptly review the pertinent condition, determine the necessity of OWNER's obtaining additional exploration or tests with respect thereto, and advise OWNER in writing (with a copy to CONTRACTOR) of ENGINEER's findings and conclusions.

C. *Possible Price and Times Adjustments*

1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical **condition causes an increase or decrease in** CONTRACTOR's cost of, or time required for, perfor- mance of the Work; subject, however, to the following:

a. such condition must meet any one or more of the categories described in paragraph 4.03.A; and

b. with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of paragraphs 9.08 and 11.03.

2. CONTRACTOR shall not be entitled to any adjustment in the Contract Price or Contract Times if:

a. CONTRACTOR knew of the existence of such conditions at the time CONTRACTOR made a final commitment to OWNER in respect of Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or

b. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for CON- TRACTOR prior to CONTRACTOR's making such final commitment; or

c. CONTRACTOR failed to give the written notice within the time and as required by paragraph 4.03.A.

3. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be made therefor as provided in paragraph 10.05. However, OWNER, ENGINEER, and ENGINEER's Consultants shall not be liable to CONTRACTOR for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all··court or arbitration or other dispute resolution costs) sustained by CONTRACTOR on or.in connection with any other project or anticipated project.

4.04 *Underground Facilities*

A. *Shown or Indicated:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to OWNER or ENGINEER by the owners of such Underground Facilities, including OWNER, or by others unless it is otherwise expressly provided in the Supplementary Conditions:

1. OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and

2. the cost of all of the following will be included in the Contract Price, and CONTRACTOR shall have full responsibility for:

a. reviewing and checking all such information and data,

b. locating all Underground Facilities shown or indicated in the Contract Documents.

c. coordination of the Work with the owners of such Underground Facilities, including OWNER, during construction, and

d. the safety and protection of all such Under- ground Facilities and repairing any damage thereto resulting from the Work.

B. Not Shown or Indicated

1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by paragraph 6.16.A), identify the owner of such Underground Facility and give written notice to that owner and to OWNER and ENGINEER. ENGINEER will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, CONTRACTOR shall be responsible for the safety and protection of such Underground Facility.

2. If ENGINEER concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made.in the Contract Price of Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that CONTRACTOR did not know of and could not reasonably have been expected to be aware of or to have anticipated. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, OWNER or CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

4.05 *Reference Points*

A. OWNER shall provide engineering surveys to establish reference points for construction which in ENGINEER's judgment are necessary to enable CON- TRACTOR to proceed with the Work. CONTRACTOR shall be responsible for laying out the Work, shall protect and preserve the established reference points and property

monuments, and shall: make no changes or relocations without the prior written approval of OWNER. CONTRACTOR shall report to ENGINEER whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.06 *Hazardous Environmental Condition at Site*

A. *Reports and Drawings:* Reference is made to the Supplementary Conditions for the identification of those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that have been utilized by the ENGINEER in the preparation of the Contract Documents.

B. *Limited Reliance by CONTRACTOR on Technical Data Authorized:* CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER or any of ENGINEER's Consultants with respect to:

1. the completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by CONTRACTOR and safety precautions and programs incident thereto; or

2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or

3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions or information;

C. CONTRACTOR shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. CONTRACTOR shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by CONTRACTOR, Subcontractors, Suppliers, or anyone else for whom CONTRACTOR is responsible.

D. If CONTRACTOR encounters a Hazardous Environmental Condition or if CONTRACTOR or anyone for whom CONTRACTOR is responsible creates a hazardous Environmental Condition, CONTRACTOR shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by paragraph 6.16); and (iii) notify OWNER and ENGINEER (and promptly thereafter confirm such notice in writing). OWNER shall promptly consult with ENGINEER concerning the necessity for OWNER to retain a qualified expert to evaluate such condition or take corrective action, if any.

E. CONTRACTOR shall not be required to resume Work in connection with such condition or in any affected area until after OWNER has obtained any required permits related thereto and delivered to CONTRACTOR written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. If OWNER and CONTRACTOR cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stop- page or such special conditions under which Work is agreed to be resumed by CONTRACTOR, either party may make a Claim therefor as provided in paragraph 10.05.

F. If after receipt of such written notice CONTRACTOR does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then OWNER may order the portion of the Work that is in the area affected by such condition to be deleted from the Work. If WNER and CONTRACTOR cannot agree as to entitlement to or on the amount or extent, if any, of a n adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in paragraph 10.05. OWNER may have such deleted portion of the Work performed by OWNER's own forces or others in accordance with Article 7.

G. To the fullest extent permitted by Laws and Regulations, OWNER shall indemnify and hold harmless CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and the officers, directors, partners, employees, agents, other consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition: (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be included within the scope of the Work, and (ii) was not created by CONTRACTOR or by anyone for whom CONTRACTOR is responsible. Nothing

in this paragraph 4.06.E shall obligate OWNER to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

H. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, other consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition created by CONTRACTOR or by anyone for whom CONTRACTOR is responsible. Nothing in this paragraph 4.06.F shall obligate CONTRACTOR to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

I. The provisions of paragraphs 4.02, 4.03, and 4.04 are not intended to apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 5 - BONDS AND INSURANCE

5.01 *Performance, Payment, and Other Bonds*

A. CONTRACTOR shall furnish performance and payment' Bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all CONTRACTOR's obligations under the Contract Documents. These Bonds shall remain, in effect at least until one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the Contract Documents. CONTRACTOR shall also furnish such other Bonds as are required by the Contract Documents.

B. All Bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named-in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.

C. If the surety on any Bond furnished by CONTRACTOR is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part' of the Project is located or it ceases to meet the requirements of paragraph 5.01.B, CONTRACTOR shall within 20 days thereafter substitute another Bond and surety, both of which shall comply with the requirements of paragraphs 5.01.B and 5.02.

5.02 *Licensed Sureties and Insurers*

A. All Bonds and insurance required by the Contract Documents to be purchased and maintained by OWNER or CONTRACTOR shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue Bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

5.03 *Certificates of Insurance*

A. CONTRACTOR shall deliver to OWNER, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by OWNER or any other additional insured) which CONTRACTOR is required to purchase and maintain. OWNER shall deliver to CONTRACTOR; with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by CONTRACTOR or any other additional insured) which OWNER is required to purchase and maintain.

5.04 *CONTRACTOR's Liability Insurance*

A. CONTRACTOR shall purchase and maintain such liability and other insurance as is appropriate for the Work being performed and as will provide protected from claims set forth below which may arise out of or result from CONTRACTOR's performance of the Work and CONTRACTOR's other obligations under the Contract Documents, whether it is to be performed, by CONTRACTOR, any Subcontractor or 'Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;

2. claims for damages because of bodily injury, occupational sickness or disease, or death of CONTRACTOR's employees;

3. claims for damages because of bodily injury, sickness or disease, or death of any person other than CONTRACTOR's employees;

4. claims for. damages insured by reasonably available personal injury liability coverage which are sustained: (i) by any person as a result of an offense directly or indirectly related to the employment of such person by CONTRACTOR, or (ii) by any other person for any **other reason;**

5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and

6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

B. The policies of insurance so required by this paragraph 5.04 to be purchased and maintained shall:

1. with respect to insurance required by paragraphs 5.04.A.3 through 5.04.A.6 inclusive, include as additional insureds (subject to any customary exclusion in respect of professional liability) OWNER, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;

2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;

3. include completed operations insurance;

4. include contractual liability insurance covering CONTRACTOR's indemnity obligations under paragraphs 6.07, 6.11, and 6.20;

5. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least thirty days prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the CONTRACTOR pursuant to paragraph 5.03 will so provide);

6. remain in effect at least until final payment and at all times thereafter when CONTRACTOR may be correcting, removing, or replacing defective Work in accordance with paragraph 13.07; and

7. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment (and CONTRACTOR shall furnish OWNER and each other additional insured identified in the supplementary Conditions, to whom a certificate of insurance has been issued,· evidence satisfactory to OWNER and any such additional insured of continuation of such insurance at final payment and one year thereafter).

5.05 OWNER's Liability Insurance

A. In addition to the insurance required to be provided by CONTRACTOR under paragraph 5.04, OWNER, at OWNER's option, may purchase and maintain at OWNER's expense OWNER's own liability insurance as will protect OWNER against claims which may arise from operations under the Contract Documents.

5.06 Property Insurance

A. Unless otherwise provided in the Supplementary Conditions, OWNER shall purchase and maintain property insurance upon the Work at the Site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:

1. include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an additional insured;

2. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, false work, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, and such other perils or causes of loss as may be specifically required by the Supplementary Conditions;

3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);

4. cover materials and equipment stored at the Site or.at another location that was agreed to in writing by **OWNER** prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by ENGINEER;

5. allow for partial utilization of the Work by OWNER;

6. include testing and startup; and

7. be maintained in effect until final payment is made unless otherwise agreed to in writing by OWNER, CONTRACTOR, and ENGINEER with 30 days written notice to each other additional insured to whom a certificate of insurance has been issued.

B. OWNER shall purchase and maintain such boiler and machinery insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.

C. All the policies of insurance (and the certificates or other evidence thereat) required to be purchased and maintained in accordance with paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance withparagraph.5.07.

D. OWNER shall not be responsible for purchasing and maintaining any property insurance specified in this paragraph 5.06 to protect the interests of CONTRACTOR; Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by CONTRACTOR, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

E. If CONTRACTOR requests in writing that other special insurance be included in the property insurance policies provided under paragraph 5.06, OWNER shall, if possible, include such insurance, and the cost thereof will be charged to CONTRACTOR by appropriate Change Order or Written Amendment. Prior to commencement of the Work at the Site, OWNER shall in writing advise CONTRACTOR whether or not such other insurance has been procured by "OWNER.

5.07 *Waiver of Rights*

A. OWNER and CONTRACTOR intend that all policies purchased in accordance with paragraph *5*.06 will protect OWNER; CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereunder. OWNER and CONTRACTOR waive all rights against each other and their respective officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for all losses and damages caused by, arising on or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by OWNER as trustee or otherwise payable under any policy so issued.

B. OWNER waives all rights against CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for:

1. loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to OWNER's property or the Work caused by, arising out of, or resulting from fire or other peril whether or not insured by OWNER; and

2. Loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by OWNER during partial utilization pursuant to paragraph 14.05, after Substantial Completion

pursuant to paragraph 14.04, or after final payment pursuant to paragraph 14.07.

C. Any insurance policy maintained by OWNER cover- ing any loss, damage or consequential loss referred to in paragraph 5.07.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against CONTRACTOR, Subcontractors, ENGINEER, or ENGINEER's consultants and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them.

5.08 *Receipt and Application of Insurance Proceeds*

A. Any insured loss under the policies of insurance required by paragraph 5.06 will be adjusted with OWNER and made payable to OWNER as fiduciary for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause and of paragraph 5.08.B. OWNER shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach, If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order or Written Amendment.

B. OWNER as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to OWNER's exercise of this power. If such objection be made, OWNER as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, OWNER as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, OWNER as fiduciary shall give bond for the proper performance of such duties.

5.09 *Acceptance of Bonds and Insurance; Option to Replace*

A. If either OWNER or CONTRACTOR has any objection to the coverage afforded by or other provisions of the Bonds or insurance required to be purchased and maintained by the other party in accordance with Article *5* on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates (or other evidence requested) required by paragraph 2.05.C. OWNER and CONTRACTOR shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the Bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent Bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

*5.*10 *Partial Utilization, Acknowledgment of Property Insurer*

A. If OWNER finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

6.01 *Supervision and Superintendence*

A. CONTRACTOR shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction, but CONTRACTOR shall not be responsible for the negligence of OWNER or ENGINEER in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents. CONTRACTOR shall' be responsible to see that the completed Work. complies accurately with the Contract Documents.

B. At all times during the progress of the Work, CONTRACTOR shall assign a competent resident superintendent thereto who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR's representative at the Site and shall have authority to act on behalf of CONTRACTOR. All communications given to or received from the superintendent shall be binding on CONTRACTOR.

6.02 *Labor; Working Hours*

A. CONTRACTOR shall provide competent, suitably qualified personnel to survey, lay out, and· construct the Work as required by the Contract Documents. CON• TRACTOR shall at all times maintain good discipline and order at the Site;

B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours, and CONTRACTOR will not permit overtime work or the performance of Work on Saturday, Sunday, or any legal holiday without OWNER's written consent (which will not be unreasonably withheld) given after prior written notice to ENGINEER.

6.03 *Services, Materials, and Equipment*

A. Unless otherwise specified in the General Re-quirements, CONTRACTOR shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.

B. All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract' Documents. All warranties and guarantees specifically called for by the Specifications shall expressly run to the benefit of OWNER. If required by ENGINEER, CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with. instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

6.04 *Progress Schedule*

A. CONTRACTOR shall adhere to the progress schedule established in accordance with paragraph 2.07 as it may be adjusted from time to time as provided below.

1. CONTRACTOR shall submit to ENGINEER for acceptance (to the extent indicated in paragraph 2.07) proposed adjustments in the progress schedule that will not result in changing the Contract Times (or Milestones). Such adjustments will conform generally to the progress schedule then iii effect and additionally will comply with any provisions of the General Requirements applicable thereto.

2. Proposed adjustments in the progress schedule that will change the Contract Times (or Milestones) shall be submitted in accordance with the requirements of Article 12. Such adjustments may only be made by a Change Order or Written Amendment in accordance with Article 12.

6.05 *Substitutes and "Or-Equals"*

A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required, Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Supplier may be submitted-to ENGINEER for review under the circumstances described below.

1. *"Or-Equal" Items:* If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be considered by ENGINEER as an "or-equal" item, in which case review and approval of the proposed item may, in ENGINEER's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this paragraph 6.05.A.1, a proposed item of material or equipment will be considered functionally equal to an item so named if:

a. in the exercise of reasonable judgment ENGINEER determines that: (i) if it is at least equal in quality, durability, appearance, strength, and design characteristics; (ii) it will reliably perform at least equally well the function imposed by the design concept of the completed Project as a functioning whole, and;

b. CONTRACTOR certifies that: (i) there is no increase in cost to the OWNER; and (ii) it will conform substantially, even with deviations, to the detailed requirements of the item named in 1he Contract Documents.

2: Substitute Items

a. If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR does not qualify as an "or-equal" item under

paragraph 6.05.A.1, it will be considered a proposed substitute item.

b. CONTRACTOR shall submit sufficient information as provided below to allow ENGINEER to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefore. Requests for review of proposed substitute items of material or equipment will not be accepted by ENGINEER from anyone other than CONTRACTOR.

c. The procedure for review by ENGINEER will be as set forth in paragraph 6.05.A.2.d, as supplemented in the General Requirements and as ENGINEER may decide is appropriate under the **circumstances.**

d. CONTRACTOR shall first make written application to ENGINEER for review of a proposed substitute item of material or equipment that CONTRACTOR seeks to furnish or me. The application shall certify that the proposed substitute item will perform adequately the functions and achieve the results called for by the general design, be similar in substance to that specified, and be suited to the space use as that specified. The application will state the extent, if any, to which the use of the ·proposed· substitute item will prejudice CONTRACTOR'• achievement of Substantial Completion on time, whether or not use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) to adapt the design to the proposed substitute item and whether or not incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license :fee or royalty. All variations of the pro- posed substitute item from that specified will be identified in the application, and available **engineering, sales, maintenance, repair, and** replacement services will be indicated. The application -will also contain an- itemized estimate of all costs or credits that will result directly or indi- rectly from use of such substitute item, including costs pf redesign and claims of other contractors affected by any resulting change, all of which will be considered by ENGINEER in evaluating the proposed substitute item. ENGINEER may require CON- TRACTOR to furnish additional data about the pro- posed substitute item.

B. *Substitute Construction Methods or Procedures:* lfa specific means, me-mod, technique, sequence, or procedure of construction is shown or indicated in and expressly required by the Contract Documents, **CONTRACTOR** may furnish or utilize a substitute means, method, technique, sequence, or. procedure of construction approved by ENGINEER. CONTRACTOR shall submit sufficient information to allow ENGINEER, in ENGINEER's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents: The procedure for review by ENGINEER will be similar to that provided in subparagraph 6.05.A.2.

C. *Engineer's Evaluation:* ENGINEER will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to paragraphs 6.05.A and 6.05.B. ENGINEER will be the sole judge of acceptability. No "or-equal" or substitute will be ordered, installed or utilized until ENGJNEER's review is complete, which will be evidenced by either a Change Order for a substitute or an approved Shop Drawing for an "or equal." ENGINEER will advise CONTRACTOR in writing of any negative determination.

D. *Special Guarantee:* OWNER may require CONTRACTOR to furnish at CONTRACTOR's expense a special performance guarantee or other surety with respect to any substitute.

E. *ENGINEER's Cost Reimbursement:* ENGINEER will record time required by ENGINEER and ENGINEER's Consultants in evaluating substitute proposed or submitted by CONTRACTOR pursuant to paragraphs 6.05.A.2 and 6.05.B and in making changes in the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) occasioned thereby. Whether or not ENGINEER approves a substitute item so proposed or submitted by CONTRACTOR. CONTRACTOR shall reimburse OWNER for the charges of ENGINEER and ENGINEER's Consultants for evaluating each such proposed substitute.

F. *CONTRACTOR's Expense:* CONTRACTOR shall provide all data in support of any proposed substitute or "or-equal" at CONTRACTOR's expense.

6.06 *Canceling Subcontractors, Suppliers, and Others*

A. CONTRACTOR shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to OWNER as indicated in paragraph 6.06.B), whether initially or as a replacement, against whom OWNER may have reasonable objection. CONTRACTOR shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom CONTRACTOR has reasonable objection.

B. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or.

entities to be submitted to OWNER in advance for acceptance by OWNER by a specified date prior to the Effective Date of the Agreement, and if CONTRACTOR has submitted a list thereof in accordance with the Supplementary Conditions, OWNER's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the basis of reasonable objection after due investigation. CONTGRACTOR shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be issued or Written Amendment signed. No acceptance by OWNER of any such Subcontractor, Supplier, or other individual or entity, whether initially or as replacement, shall constitute a waiver of any right of OWNER or ENGINEER to reject defective Work.

C. CONTRACTOR shall be fully responsible to OWNER and ENGINEER for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as CONTRACTOR is responsible for CONTRACTOR's own acts and omissions. Nothing in the Contract Documents shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between OWNER or ENGINEER and any such -Subcontractor, Supplier or other individual or entity, nor shall it create-any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any such Subcon- tractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.

D. CONTRACTOR shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with CONTRACTOR.

E. CONTRACTOR shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with ENGINEER through CONTRACTOR.

F. The divisions and sections of the Specifications and the identifications of any Drawings shall not control CONTRACTOR in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

G. All Work performed for CONTRACTOR by a Subcontractor or Supplier will be pursuant to an appropriate agreement between CONTRACTOR and the Subcontractor- or supplier to the applicable terms and conditions of the Contract Documents for the benefit of OWNER and ENGINEER. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in paragraph 5.06, the agreement between the CONTRACTOR and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against OWNER, CONTRACTOR, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) for all losses and damages cause\! by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such. policies require separate waiver forms to be signed by any Subcontractor or Supplier, CONTRACTOR will obtain the same,

6.07 *Patent Fees and Royalties*

A. CONTRACTOR shall pay all license fees and royalties and assume all costs incident to. the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of OWNER or ENGINEER its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by OWNER in the Contract Documents. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER'S Consultants, and the officers, directors, partners, employees or agents, and other consultants of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

6.08 *Permits*

A. Unless otherwise provided in the Supplementary Conditions, CONTRACTOR shall obtain and pay for all construction permits and licenses. OWNER shall assist CONTRACTOR, when necessary, in obtaining such permits

and licenses. CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. CONTRACTOR shall pay all charges of utility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto, such as plant investment fees.

6.09 *Laws and Regulations*

A. CONTRACTOR shall give all notices and comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither OWNER nor ENGINEER shall be responsible for. monitoring CONTRACTOR's compliance with any Laws or Regulations.

B. If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, CONTRACTOR shall bear all claims, costs, losses, and damages (:including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work; however, it shall not be CONTRACTOR's primary responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve CONTRACTOR of CONTRACTOR's obligations under paragraph 3.03.

C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work may be the subject of an adjustment in Contract Price or Contract Times. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in paragraph 10.05.

6.10 *Taxes*

A. CONTRACTOR shall pay all sales, consumer, use, and other similar taxes required to be paid by CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

6.11 *Use of Site and Other Areas*

A. *Limitation on. Use of Site and Other Areas*

1. CONTRACTOR shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations, and shall· not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.

2. Should any claim be made by any such owner or occupant because of the performance of the Work, CONTRACTOR shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at Jaw.

3. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultant, and the officers, directors, partners, employees, agents, and other consultants of each and any of them from and against all claims, costs, losses, and damages including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against OWNER, ENGINEER, or any other party indemnified hereunder to the extent caused by or based upon CONTRACTOR's performance of the Work,

B. *Removal of Debris During Performance of the Work:* During the progress of the Work CONTRACTOR shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall con- form to applicable Laws and Regulations.

C. *Cleaning:* Prior to Substantial Completion of the Work CONTRACTOR shall clean the Site and make it ready for utilization by OWNER. At the completion of the Work CONTRACTOR shall remove from the Site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

D. *Loading Structures:* CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 *Record Documents*

A. CONTRACTOR shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Written· Amendments, Change Orders, Work

Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to ENGINEER for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to ENGINEER for OWNER.

6.13 *Safety and Protection*

A. CONTRACTOR shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. all persons on the Site or who may be affected by the Work;

2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and

3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course. of construction.

B. CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property. *All* damage, injury, or loss to any property referred to in paragraph 6.13.A.2 or 6.13.A.3 caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or ENGINEER's Consultant, or anyone employed by any of them, or anyone for
whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them). CONTRACTOR's duties and .responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and ENGINEER has issued a notice to **OWNER.** and CONTRACTOR in accordance with paragraph 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.14 *Safety Representative*

A. CONTRACTOR shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.15 *Hazard Communication Programs*

A. CONTRACTOR shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

6.16 *Emergencies*

A. Emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, CONTRACTOR is obligated to act to prevent threatened damage, injury, or loss. CONTRACTOR shall give ENGINEER prompt written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If ENGINEER determines that a change in the Contract Documents is required because of. the action taken by CONTRACTOR in response to such an emergency, a Work Change Directive or Change Order will be issued.

6.17 *Shop Drawings and Samples*

A. CONTRACTOR shall submit Shop Drawings to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals. All submittals shall be identified as ENGINEER may require and in the number of copies specified in the General Requirements. Toe data shown on the Shop Drawings will be complete with respect to quantities, dimen- sions, specified performance and design criteria, materials, and similar data to show ENGINEER the services, materials, and equipment CONTRACTOR proposes to provide and to enable ENGINEER to review the information for the limited purposes required by paragraph 6.17.E.

B. CONTRACTOR shall also submit Samples to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample

submittals. Each Sample will be identified clearly as to material, Supplier, pertinent data such as catalog numbers, and the use for which intended and otherwise as ENGINEER may require to enable ENGINEER to review the submittal for the limited purposes required by paragraph 6.17.E. The numbers of each Sample to be submitted will be as specified in the Specifications.

C. Where a Shop Drawing or Sample is required by the Contract Documents or the schedule of Shop Drawings and Sample submittals acceptable to ENGINEER as required by paragraph 2.07, any related Work performed prior to ENGINEER's review and approval of the pertinent submittal will be at the sole expense and responsibility of CONTRACTOR.

D. *Submittal Procedures*

1. Before submitting each Shop Drawing or Sample, CONTRACTOR shall have determined and verified:

a. all field measurements; quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

b. all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;

c. all information relative to means, methods, techniques, sequences, and procedures of construction and safety precautions and programs incident thereto; and

d. CONTRACTOR shall also have reviewed arid coordinated each Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents.

2. Each submittal shall bear a stamp or specific written indication that CONTRACTOR has satisfied CONTRACTOR's obligations under the Contract Documents with respect to CONTRACTOR's review and approval of that submittal.

3. At the **time** of each submittal, CONTRACTOR shall give ENGINEER specific written notice of such variations, if any, that the Shop Drawing or Sample submitted may have from the requirements of the Contract Documents, such notice to be in a written com- munication separate from the submittal; and, in addition, shall cause a specific notation (to be made on each Shop Drawing and Sample submitted to ENGINEER for review and approval of each such variation.

E. *ENGINEER's Review*

1. ENGINEER will timely review and approve Shop Drawings and Samples in accordance with the schedule of Shop Drawings and Sample submittals acceptable to ENGINEER. ENGINEER's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. ENGINEER's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

3. ENGINEER's review and approval of Shop Drawings or Samples shall not relieve CONTRACTOR from responsibility for any variation from the require- ments of the Contract Documents unless CONTRACTOR has in writing called ENGINEER's attention to each such variation at the time of each submittal as required by paragraph 6.17.D.3 and ENGINEER has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample approval; nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for complying with the requirements of paragraph 6.17.D.I.

F. *Resubmittal Procedures*

1. CONTRACTOR shall make corrections required by ENGINEER and shall return the required number of corrected copies of Shop Drawings and submit as required new Samples for review and approval. CON- TRACTOR shall direct specific attention in writing to revisions other than the corrections called for by ENGI- NEER on previous submittals.

6.18 *Continuing the Work*

A. CONTRACTOR shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with OWNER. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except

as permitted by paragraph 15.04 or as OWNER and CONTRACTOR may otherwise agree in writing.

6.19 *CONTRACTOR's General Warranty and Guarantee*

A. CONTRACTOR warrants and guarantees to OWNER, ENGINEER, and ENGINEER's Consultants that all Work will be in accordance with the Contract Documents and will not be defective. CONTRACTOR's warranty and guarantee hereunder excludes defects or damage cause by:

1. abuse, modification, or improper maintenance or operation by persons other than CONTRACTOR, Subcontractors, Suppliers, or any other individual or entity for whom CONTRACTOR is responsible; or

2. normal wear and tear under normal usage.

B. CONTRACTOR's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of CONTRACTOR's obligation to perform the Work in accordance with the Contract Documents:

1. observations by ENGINEER;

2. recommendation by ENGINEER or payment by OWNER of any progress or final payment;

3. the issuance of a certificate of Substantial . Completion by ENGINEER or any payment related thereto by OWNER;

4. use or occupancy of the Work or any part thereof by OWNER;

5. any acceptance by OWNER or any failure to do so;

6. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by ENGINEER;

7. any inspection, test, or approval by others; or

8. any correction of defective Work by OWNER.

6.20 *Indemnification*

A. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage:

1. is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom; and

2. is caused in whole or in part by any negligent act or omission of CONTRACTOR, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable, regardless of whether or not caused in part by any negligence or omission of an individual or entity indem- nified hereunder or whether liability is imposed upon such indemnified party by Laws and Regulations regardless of the negligence of any such individual or entity.

B. In any and all claims against OWNER or ENGINEER or any of their respective consultants, agents, officers, directors, partners, or employees by any employee (or the survivor or personal representative of such employee) of CONTRACTOR, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.20.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for CONTRACTOR or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.·

C. The indemnification obligations of CONTRACTOR Under paragraph 6.20.A shall not extend to the liability of ENGINEER and ENGINEER's Consultants or to the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of Ibero arising out of:

1. the preparation or approval of, or the failure to prepare or approve, maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or

2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

ARTICLE 7 - OTHER WORK

7.01 *Related Work at Site*

A. OWNER may perform other work related to the Project at the Site by OWNER'S employees, or let other direct contracts therefore, or have other work performed by utility owners. If such other work is not noted in the Con- tract Documents, then:

1. written notice thereof will be given to CONTRACTOR prior to starting any such other work; and

2. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in paragraph 10.05.

B. CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (and OWNER, if OWNER is performing the other work with OWNER's employees) proper and safe access to the Site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work and shall properly coordinate the Work with theirs.

Unless otherwise provided in the Contract Documents, CONTRACTOR shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. CONTRACTOR shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of ENGINEER and the others whose work will be affected, The duties and responsibilities of CONTRACTOR under this paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of CONTRACTOR in said direct contracts between OWNER and such utility owners and other contractors.

C. If the proper execution or results of any part of CONTRACTOR's Work depends upon work performed by others under Article 7, CONTRACTOR shall inspect such other work and promptly report to ENGINEER in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of CONTRACTOR's Work. CONTRACTOR's failure to o report will constitute an acceptance of such other work as fit and proper for integration with CONTRACTOR's Work except for latent defects and deficiencies in such other work.

7.02 Coordination

A. If OWNER intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:

1. the individual or entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;

2. the specific matters to be covered by such authority and responsibility will be itemized; and

3. the extent of such authority and responsibilities will be provided.

B. Unless otherwise provided in the Supplementary Conditions, OWNER shall have sole authority and responsibility for such coordination.

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8.01 *Communications to Contractor*

A. Except as otherwise provided in these General Conditions, OWNER shall issue all communications to CONTRACTOR through ENGINEER.

8.02 *Replacement of ENGINEER*

A. In case of termination of the employment of ENGINEER, OWNER shall appoint an engineer to whom CONTRACTOR makes no reasonable objection, whose status under the Contract Documents shall be that of the former ENGINEER.

8.03 *Furnish Data*

A. OWNER shall promptly furnish the data required of OWNER under the Contract Documents.

8.04 *Pay Promptly When Due*

A. OWNER shall make payments to CONTRACTOR promptly when they are due as provided in paragraphs 14.02.C and 14.07.C.

8.05 *Lands and Easements; Reports and Tests*

A. OWNER's duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.01 and *4.05.* Paragraph 4.02 refers to OWNER's identifying and making available to CONTRACTOR copies of reports of explorations

and tests of subsurface conditions and drawings of physical conditions in or relating to existing surface or subsurface

structures at or contiguous to the Site that have been utilized by ENGINEER in preparing the Contract Documents.

8.06 *Insurance*

A. OWNER's responsibilities, if any, in respect to purchasing and maintaining liability and property insurance are set forth in Article 5.

8.07 *Change Orders*

A. · OWNER is obligated to execute Change Orders as indicated in paragraph 10.03.

8.08 *Inspections, Tests, and Approvals*

A. OWNER's responsibility in respect to certain inspections, tests, and approvals is set forth in paragraph 13.03.B.

8.09 *Limitations on OWNER's Responsibilities*

A. The OWNER shall not supervise, direct, or have control or authority over, nor be responsible for, CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of. the Work. OWNER will not be responsible for CONTRACTOR'S failure to perform the Work in accordance with the Contract Documents.

8.10 *Undisclosed Hazardous Environmental Condition*

A. OWNER's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in paragraph 4.06.

8.11 *Evidence of Financial Arrangements*

A. If and to the extent OWNER has agreed to furnish CONTRACTOR reasonable evidence that financial arrangements have been made to satisfy OWNER's obligations under the Contract Documents, OWNER's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION

9.01 *OWNER'S Representative*

A. ENGINEER will be OWNER's representative during the construction period. The duties and responsibilities and the limitations of authority of ENGINEER as OWNER's representative during construction are set forth in the Contract Documents and will not be changed without written consent of OWNER and ENGINEER.

9.02 *Visits to Site*

A. ENGINEER will make visits to the Site at intervals appropriate to the various stages of construction as ENGINEER deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of CONTRACTOR's executed Work. Based on information obtained during such visits and observations, ENGINEER, for the benefit of OWNER, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. E NGINEER will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. ENGINEER's efforts will be directed toward providing for OWNER a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, ENGINEER will keep OWNER informed of the progress of the Work and will endeavor to guard OWNER against defective Work.

B. ENGINEER's visits and observations are subject to all the limitations on ENGINEER'S authority and responsibility set forth in paragraph 9.10, and particularly, but without limitation, during or as a result of ENGINEER's. visits or observations of CONTRACTOR'S Work ENGINEER will not supervise, direct, control, or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work.

9.03 *Project Representative*

A. If OWNER and ENGINEER agree, ENGINEER will furnish a Resident Project Representative to assist ENGINEER in providing more extensive observation of the Work. The responsibilities and authority and limitations thereon of any such Resident Project Representative and assistants \Vil! be as provided in paragraph 9.10 and in the Supplementary Conditions. If OWNER designates another

representative or agent to represent OWNER at the Site who is not ENGINEER's Consultant, agent or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be *as* provided in the Supplementary Conditions.

9.04 *Clarifications and Interpretations*

A. ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents *as* ENGINEER may determine necessary, which shall be consistent with the intent of and reasonably inferable from the Contract Documents. Such written clarifications and interpretations will be binding on OWNER and CONTRACTOR. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, that should be allowed as result of a written clarification or interpretation, a Claim may be made therefor *as* provided in paragraph 10.05.

9.05 *Authorized Variations in Work*

A. ENGINEER may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project *as* a functioning whole *as* indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on OWNER and also on CONTRACTOR, who shall perform the Work involved promptly. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a result of· a Field Order, a Claim may be made therefore *as* provided in paragraph 10.05.

9,06 *Rejecting Defective Work*

A. ENGINEER will have authority to disapprove or reject Work which ENGINEER believes to be defective, or that ENGINEER believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole *as* indicated by the Contract Documents. ENGINEER will also have authority to require special inspection or testing of the Work as provided in paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

9.01 Shop Drawings, Change Orders and Payments

A. In connection with ENGINEER's authority as to Shop · Drawings and Samples, see paragraph 6.17.

B. In connection with ENGINEER's authority *as* to Change Orders, see Articles 10, 11, and 12.

C. In connection with ENGINEER's authority *as* to Applications for Payment, see Article 14.

9.08 *Determinations for Unit Price Work*

A. ENGINEER will determine the actual quantities and classifications of Unit Price Work performed by CONTRACTOR. ENGINEER Will review with CONTRACTOR the ENGINEER's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). ENGINEER's written decision thereon will be final and binding (except as modified by ENGINEER to reflect changed factual conditions or more accurate data) upon OWNER and CONTRACTOR, subject to the provisions of paragraph 10.05.

9.09 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. Claims, disputes and other matters relating to the acceptability of the Work, the quantities and classifications of Unit Price Work, the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, and Claims seeking changes in the Contract Price or Contract Times will be referred initially to ENGINEER in writing, in accordance with the provisions of paragraph 10.05, with a request for a formal decision.

B. When functioning as interpreter and judge under this paragraph 9.09, ENGINEER will not show partiality to OWNER or CONTRACTOR and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity. The rendering of a decision by ENGINEER pursuant to this paragraph 9.09 with respect to any such Claim, dispute, or other matter (except any which have been waived by the making or acceptance of. final payment as provided in paragraph 14.07) will be a condition precedent to any exercise by OWNER or CONTRACTOR of such rights or remedies *as* either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any such Claim, dispute, or other matter.

9.10 *Limitations on ENGINEER's Authority and Responsibilities*

A. Neither ENGINEER's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by ENGINEER in good faith either to exercise or not exercise such authority

or responsibility or the undertaking, exercise, or performance of any authority or responsibility by ENGINEER shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by ENGINEER to CONTRACTOR, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. ENGINEER will not supervise, direct, control, or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work. ENGINEER will not be responsible for CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

C. ENGINEER will not be responsible for the acts or omissions of CONTRACTOR or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. ENGINEER's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by paragraph 14.07.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with, the Contract Documents.

E. The limitations upon authority and responsibility set forth in this paragraph 9.10 shall also apply to ENGINEER's Consultants, Resident Project-Representative, and assistants.

ARTICLE 10 - CHANGES IN THE WORK; CLAIMS

10.01 *Authorized Changes in the Work*

A. Without invalidating the Agreement and without notice to any surety, OWNER may, at any time or from time to time, order additions, deletions, or revisions in the Work by a Written Amendment, a Change Order, or a Work Change Directive. Upon receipt of any such document, CONTRACTOR shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

B. If OWNER and CONTRACTOR are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefore as provided in paragraph 10.05.

10.02 *Unauthorized Changes in the Work*

A. CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in paragraph 3.04, except in the case of an emergency as provided in paragraph 6.16 or in the case of uncovering Work as provided in paragraph 13.04.B.

10.03 *Execution of Change Orders*

A. OWNER and CONTRACTOR shall execute appropriate Change Orders recommended by ENGINEER (or Written Amendments) covering:

1. changes in the Work which are: (i) ordered by OWNER pursuant to paragraph 10.01.A, (ii) required because of acceptance of defective Work under paragraph 13.08.A or OWNER's correction of defective Work under paragraph 13.09, or (iii) agreed to by the parties;

2. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive; and

3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by ENGINEER pursuant to paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, CONTRACTOR shall carry on the Work and adhere to the progress schedule as provided in paragraph 6.18.A.

10.04 *Notification to Surety*

A. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be CONTRACTOR' s responsibility. The amount of each applicable Bond will be adjusted to reflect the effect of any such change.

10.05 *Claims and Disputes*

A. *Notice:* Written notice stating the general nature of each Claim, dispute, or other matter shall be delivered by the claimant to ENGINEER and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. Notice of the amount or extent of the Claim, dispute, or other matter with supporting data shall be delivered to the ENGINEER and the other party to the Contract within 60 days after the start of such event (unless ENGINEER allows additional time for claimant to submit additional or more accurate data in support of such Claim, dispute, or other matter). A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of paragraph 12.01.B. A Claim for an adjustment in Contract Time shall be prepared in accordance with the provisions of paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to ENGINEER and the claimant within 30 days after receipt of the claimant's last submittal (unless ENGINEER allows additional time).

B. ENGINEER's Decision: ENGINEER will render a formal decision in writing within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any. ENGINEER's written decision on such Claim, dispute, or other matter will be formal and binding upon OWNER and CONTRACTOR unless:

1. an appeal from ENGINEER's decision is taken within the time limits and in accordance with the dispute resolution procedures set forth in Article 16; or

2. if no such dispute resolution procedures have been set forth in Article 16, a written notice of intention to appeal from ENGINEER's written decision is delivered by OWNER or CONTRACTOR to the owner and to ENGINEER within 30 days after the date of such decision, and a formal proceeding is instituted by the appealing party in a forum of competent jurisdiction within 60 days after the date of such decision or within 60 days after Substantial Completion, whichever is later (unless otherwise agreed in writing by OWNER and CONTRACTOR), to exercise such rights or remedies as the appealing party may have with respect to such Claim, dispute, or other matter in accordance with applicable Laws and Regulations.

C. If ENGINEER does not render a formal decision in writing within the time stated in paragraph 10.05.B, a decision denying the Claim in its entirety shall be deemed to have been issued 31 days after receipt of the last submittal of the claim or the last submittal of the opposing party, if any.

D. No Claim for an adjustment in Contract Price or Contract Times (or Milestones) will be valid if not submitted in accordance with this paragraph 10.05.

ARTICLE 11 - COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK

11.01 *Cost of the Work*

A. *Costs Included:* The term Cost of the Work means the sum of all costs necessarily incurred and paid by CONTRACTOR in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed lo CONTRACTOR will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items, and shall not include any of the costs itemized in paragraph 11.01.B.

1. Payroll costs for employees in the direct employ of CONTRACTOR in !he performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Such employees shall include without limitation superintendents, foremen, and other personnel employed full time at the Site. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by OWNER.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage !hereof, and Suppliers' field services required in connection herewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case !he cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.

3. Payments made by CONTRACTOR to Subcontractors for Work performed by Subcontractors. If required by OWNER, CONTRACTOR shall obtain competitive bids from subcontractors acceptable to OWNER and CONTRACTOR and shall deliver such bids to OWNER, who will then determine, with the advice of ENGINEER, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as CONTRACTOR's Cost of the Work and fee as provided in this paragraph U.01.

4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys and accountants) employed for services specifically related to the Work.

5. Supplemental costs including the following:

a. The proportion of necessary transportation, travel; and subsistence expenses of CONTRACTOR's employees incurred in discharge of duties connected with the Work.

b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery appliances, office, and temporary facili- ties at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of CONTRACTOR.

c. Rentals of all construction equipment and machinery, and the parts thereof whether rented from CONTRACTOR or others in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, ma- chinery, or parts shall cease when the use thereof is no longer necessary for the Work.

d. Sales, consumer, use, and other similar taxes related to the Work, and for which CONTRACTOR is liable, imposed by Laws and Regulations.

e. Deposits lost for causes other than negligence of CONTRACTOR, any Subcontractor, or anyone directly. or indirectly employed by, any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by CONTRACTOR in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with paragraph 5.06.D), provided such losses and damages have resulted from causes other than the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with written consent and approval of the OWNER. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining· CONTRACTOR's fee.

g. The cost of utilities, fuel and sanitary facilities at the Site.

h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, expressage, and similar petty cash items in connection with the Work.

i. When the Cost of the Work is used to determine the value of a Change Order or of a Claim, the cost of premiums for additional Bonds and insurance required because of the changes in the Work or caused by the event giving rise to the Claim.

j. When all the Work is performed on the basis of cost-plus, the costs of premiums for all Bonds and insurance CONTRACTOR is required by the Contract Documents to purchase and maintain.

B. *Costs Excluded:* The term Cost of the Work shall not include any of the following items:

1. Payroll costs and other compensation of CONTRACTOR's officers, executives, principals (of partnerships and sole proprietorships), general managers**, engineers, architects, estimators, attorneys, auditors**, accountants, purchasing and contracting agents, expediters, timekeepers, clerks, and other personnel employed by CONTRACTOR, whether at the Site or in CONTRACTOR's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in paragraph 11.01.A.1. or specifically covered by paragraph 11.01.A.4, all of which are to be

considered administrative costs covered by the CONTRACTOR's fee.

2. Expenses of CONTRACTOR's principal and branch offices other than CONTRACTOR's office at the Site.

3. Any part of CONTRACTOR's capital expenses, including interest on CONTRACTOR's capital employed for the Work and charges against CONTRACTOR for delinquent payments.

4. Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.

5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraphs 11.01.A and 11.01.B.

C. *CONTRACTOR's Fee:* When all the Work is performed on the basis of cost-plus, CONTRACTOR's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, CONTRACTOR's fee shall be determined as set forth in paragraph 12.01.C.

D. *Documentation:* Whenever the Cost of the Work for any purpose is to be determined pursuant to paragraphs 11.01.A and 11.01.B, CONTRACTOR will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to ENGINEER an itemized cost breakdown together with supporting data.

11.02 *Cash Allowances*

A. It is understood that CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums as may be acceptable to OWNER and ENGINEER. CONTRACTOR agrees that:

1. the allowances include the cost to CONTRACTOR (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and

2. CONTRACTOR's costs for unloading and handling on the Site, labor, installation costs, overhead, profit, and other expenses contemplated for the allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

B. Prior to final payment, an appropriate Change Order will be issued as recommended by ENGINEER to reflect actual amounts due CONTRACTOR on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

11.03 *Unit Price Work*

A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agree- ment. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by CONTRACTOR will be made by ENGINEER subject to the provisions of paragraph 9.08.

B. Each unit price will be deemed to include an amount considered by CONTRACTOR to be adequately to cover CONTRACTOR's overhead and profit for each separately identified item.

C. OWNER or CONTRACTOR may make a Claim for an adjustment in the Contract Price in accordance with paragraph 10.05 if:

1. the quantity of any item of Unit Price Work performed by CONTRACTOR differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and

2. there is no corresponding adjustment with respect any other item of Work; and

3. if CONTRACTOR believes that CONTRACTOR is entitled to an increase in Contract Price as a result of having incurred additional expense or OWNER believes that OWNER *is* entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 12 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

12.01 *Change of Contract Price*

A. The Contract Price may only be changed by a Change Order or by a Written Amendment. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the ENGINEER and the other party to the Contract in accor- dance with the provisions of paragraph 10.05.

B. The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

1. where the Work involved is covered by unit prices contained in the Contract Documents, by application of such. unit prices to the quantities of the items involved (subject to the provisions of paragraph lf.03); or

2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with paragraph 12.01.C.2); or

3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in paragraph 11.01) plus a CONTRACTOR's fee for overhead and profit (determined as provided in paragraph 12.01.C).

C. *CONTRACTOR's Fee:* The CONTRACTOR's fee overhead and profit shall be determined as follows:

1. a mutually acceptable fixed fee; or

2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:

a. for costs incurred under paragraphs 11.01.A.1 and 11.01.A.2, the CONTRACTOR's fee shall be 15 percent;

b. for costs incurred under paragraph 11.01.A.3, the CONTRACTOR's fee shall be five percent;

c: where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of paragraph 12.01.C.2.a is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and CONTRACTOR will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;

d. no fee shall be payable on the basis of costs itemized under paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;

e, the amount of credit to be allowed by CONTRACTOR to OWNER for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in CONTRACTOR's fee by an amount equal to five percent of such net decrease; and

f. when both additions and credits are involved in any one change, the adjustment in CONTRACTOR's fee shall be computed on the basis of the net change in accordance with paragraphs 12.01.C.2.a through 12.01.C.2.e, inclusive.

12.02 Change of Contract Times

A. The Contract Times (or Milestones) may only be changed by a Change Order or by a Written Amendment. Any Claim for an adjustment in the Contract Times (or Milestones) shall be based on written notice submitted by the party making the claim to the ENGINEER and the other party to the Contract in accordance with the provisions of paragraph 10.05.

B. Any adjustment of the Contract Times (or Milestones) covered by a Change Order or of any Claim for an adjustment in the Contract Times (or Milestones) will be determined in accordance with the provisions of this Article 12.

12.03 *Delays Beyond CONTRACTOR's Control*

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) will be extended in an amount equal to the time lost due to such delay if a Claim is made therefore as provided in paragraph
12.02.A. Delays beyond the control of CONTRACTOR shall include, but not be limited to acts or neglect by OWNER, acts or neglect of utility owners or other contractors performing other work as contemplated by

Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.

12.04 *Delays Within CONTRACTOR's Control*

A. The Contract Times (or Milestones) will not be extended due to delays within the control of CONTRACTOR. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of CONTRACTOR.

12.05 *Delays Beyond OWNER's and CONTRACTOR's Control*

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay.

12.06 *Delay Damages*

A. In no event shall OWNER or ENGINEER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surety for or employee or agent any of them, for damages arising out of or resulting from:

1. delays caused by or within the control of CONTRACTOR; or

2. delays beyond the control of both OWNER and CONTRACTOR including but not limited to fires, floods, epidemics, abnormal weather conditions, acts of God, or acts or neglect by utility owners or other contractors performing other work as contemplated by Article 7.

B. Nothing in this paragraph 12.06 bars a change in Contract Price pursuant to this Article 12 to compensate CONTRACTOR due to delay, interference or disruption directly attributable to actions or inactions of OWNER or anyone for whom OWNER is responsible.

ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

13.01 *Notice of Defects*

A. Prompt notice of all defective Work of which OWNER or ENGINEER has actual knowledge will be given to CONTRACTOR. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 *Access to Work*

A. OWNER, ENGINEER, ENGINEER's Consultants, other representatives and personnel of OWNER, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. CONTRACTOR shall provide them proper and safe conditions for such access and advise them of CONTRACTOR's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 *Tests and Inspections*

A. CONTRACTOR shall give ENGINEER timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

B. OWNER shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

1. for inspections, tests, or approvals covered by paragraphs 13.03.C and 13.03.D below;

2. that costs incurred in connection with tests or inspections conducted pursuant to paragraph 13.04.B shall be paid as provided in said paragraph 13.04.B; and.

3. as otherwise specifically provided in the Contract Documents.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, CONTRACTOR shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish ENGINEER the required certificates of inspection or approval.

D. CONTRACTOR shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for OWNER's and ENGINEER's acceptance of materials or equipment to be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to CONTRACTOR's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to OWNER and ENGINEER.

E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by CONTRACTOR without written concurrence of ENGINEER, it must, if requested by ENGINEER, be uncovered for observation.

F. Uncovering Work as provided in paragraph 13.03.E shall be at CONTRACTOR's expense unless CONTRACTOR has given ENGINEER timely notice of CONTRACTOR's intention to cover the same and ENGINEER has not acted with reasonable promptness in response to such notice.

13.04 *Uncovering Work*

A. If any Work is covered contrary to the written request of ENGINEER, it must, if requested by ENGINEER, be uncovered for ENGINEER's. observation and replaced at CONTRACTOR'S expense.

B. If ENGINEER considers it necessary or advisable that covered Work be observed by ENGINEER or inspected

or tested by others, CONTRACTOR at ENGINEER's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as ENGINEER may require, that portion of the Work in question, furnishing all. necessary labor, material, and equipment. If it is found that such Work is defective, CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or ·other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and OWNER shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, OWNER may make a Claim therefor as provided in paragraph 10.05. If, however, such Work is not found to be defective, CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Times (or Milestones), or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

13.05 *OWNER May Stop the Work*

A. If the Work is defective, or CONTRACTOR fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, OWNER may order CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of OWNER to stop the Work shall not give ease to any duty on the part of OWNER to exercise this right for the benefit of CONTRACTOR, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

13.06 *Correction or Removal of Defective Work*

A. CONTRACTOR shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by ENGINEER, remove it from the Project and replace it with Work that is not defective. CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

13.07 *Correction Period*

A. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for CONTRACTOR's use by OWNER or permitted by Laws and Regulations as contemplated in paragraph 6.11.A is found to be defective, CONTRACTOR shall promptly, without cost to OWNER and in accordance with OWNER's written instructions: (i) repair such defective land or areas, or (ii) correct such defective Work or, if the defective Work has been rejected by OWNER, remove it from the Project and replace it with Work that is not defective, and (iii) satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom. If CONTRACTOR does not promptly comply with the terms of such instructions, or. in an emergency where delay would cause serious risk of loss or damage, OWNER may have the defective Work corrected or repaired or. may have the rejected Work removed and replaced, and all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by CONTRACTOR.

B. In special circumstances where a particular item of equipment is placed-in continuous service before Substantial Completion of all the Work, the correction period for that

item may start to run from an earlier date if so provided in the Specifications or by Written Amendment.

C. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

D. CONTRACTOR's obligations under this paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this paragraph 13.07 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

13.08 *Acceptance of Defective Work*

A. If, instead of requiring correction or removal and replacement of defective Work, OWNER (and, prior to ENGINEER's recommendation of final payment, ENGINEER) prefers to accept it, OWNER may do so. CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court· or arbitration or other dispute resolution costs) attributable to OWNER's evaluation of and determination to accept such defective Work (such costs to be approved by ENGINEER as to reasonableness) and the diminished value of the Work to the extent not otherwise paid by CONTRACTOR pursuant to this sentence. If any such acceptance occurs prior to ENGINEER's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and OWNER shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, OWNER may make a Claim therefor as provided in paragraph 10.05. If the acceptance occurs after such recommendation·, an appropriate amount will be paid by CONTRACTOR to OWNER.

13.09 *OWNER May Correct Defective Work*

A. If CONTRACTOR fails within a reasonable time after written notice from ENGINEER to correct defective Work or to remove and replace rejected Work as required by ENGINEER in accordance with paragraph 13.06.A, or if CONTRACTOR **fails** to perform the Work in accordance with the Contract Documents, or if CONTRACTOR fails to comply with any other provision of the Contract Documents, OWNER may, after seven days written notice to CONTRACTOR, correct and remedy any such deficiency.

B. In exercising the rights and remedies under this paragraph, OWNER shall proceed expeditiously. In connection with such corrective and remedial action, OWNER may exclude CONTRACTOR from all or part of the Site, take possession of all or part of the Work and suspend CONTRACTOR's services related thereto; take possession of CONTRACTOR's tools, appliances, con- struction equipment and machinery at the Site, and incorpo- rate in the Work all materials and equipment stored at the Site or for which OWNER has paid CONTRACTOR but which are stored elsewhere. CONTRACTOR shall allow OWNER, OWNER's representatives, agents and employees, OWNER's other contractors, and ENGINEER and ENGINEER's Consultants access to the Site to enable OWNER to exercise the rights and remedies under this paragraph.

C. All Claims, costs, losses, and damages (including but not limited to all fees and charges of. engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by OWNER in exercising the rights and remedies under this paragraph 13.09 will be charged against CONTRACTOR, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, OWNER may make a Claim therefore as provided in paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of CONTRACTOR's defective Work.

D. CONTRACTOR shall not be allowed an extension of the contract Times (or Milestones) because of any delay in the performance of the Work attributable to the exercise by OWNER of OWNER's rights and remedies under this paragraph 13.09.

ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 *Schedule of Values*

A. The schedule of values established as provided in paragraph 2.07.A will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to ENGINEER. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 *Progress Payments*

A. *Applications for Payments*

1. At least 20 days before the date established for each progress payment (but not more often than once a month), CONTRACTOR shall submit to ENGINEER for review an Application for Payment filled out and signed by CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that OWNER has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect OWNER's interest therein, all of which must be satisfactory to OWNER.

2. Beginning with the second Application for Payment, each Application shall include an affidavit of CONTRACTOR stating that ail previous progress payments received on account of the Work have been applied on account to discharge CONTRACTOR's legitimate obligations associated with prior Applications for Payment.

3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

B. *Review of Applications*

1. ENGINEER will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to OWNER or return the Application to CONTRACTOR indicating in writing ENGINEER's reasons for refusing to recommend payment. In the latter case, CONTRACTOR may make the necessary corrections and resubmit the Application.

2. ENGINEER's recommendation of any payment requested in an Application for Payment will constitute a representation by ENGINEER to OWNER, based on ENGINEER's observations on the Site of the executed Work as an experienced and qualified design professional and on ENGINEER's review of the Application for Payment and the accompanying data and schedules, that to the best of ENGINEER's knowledge, information and belief:

a. the Work bas progressed to the point indicated;

b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination). of quantities and classifications for Unit Price Work under paragraph 9.08, and to any other qualifications stated in the recommendation); and

c. the conditions precedent to CONTRACTOR's being entitled to such payment appear to have been fulfilled in so far as it is ENGINEER's responsibility to observe the Work.

3. By recommending any such payment ENGINEER will not thereby be deemed to have represented that: (i) inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to ENGINEER in the Contract Documents; or (ii) that there may not be other matters or issues between the parties that might entitle CONTRACTOR to be paid additionally by OWNER or entitle OWNER to withhold payment to CONTRACTOR.

4. Neither ENGINEER's review of CONTRACTOR's Work for the purposes of recom- mending payments nor ENGINEER's recommendation of any payment, including final payment, will impose responsibility on ENGINEER to supervise, direct, or control the Work or for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for CON- TRACTOR's failure to comply with Laws and Regu- lations applicable to CONTRACTOR's performance of the Work. Additionally, said review or recommendation will not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes CONTRACTOR has used the moneys paid on account of the Contract Price, or to determine that title to any of the Work, materials, or equipment has passed to OWNER free and clear of any Liens.

5. ENGINEER may refuse to recommend the whole or any part of any payment if, in ENGINEER's opinion, it would be incorrect to make the representa- tions to OWNER referred to in paragraph 14.02.B.2. ENGINEER may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent inspections or tests,

revise or revoke any such payment recommendation previously made, to such extent as may be necessary in ENGINEER's opinion to protect OWNER from loss because:

a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;

b. the Contract Price has been reduced by Written Amendment or Change Orders;

c. OWNER has been required to correct defective Work or complete Work in accordance with paragraph 13.09; or

d. ENGINEER has actual knowledge of the occurrence of any of the events enumerated in paragraph 15.02.A.

C. *Payment Becomes Due*

1. Ten days after presentation of the Application for Payment to OWNER with ENGINEER's recommendations, the amount recommended will (subject to the provisions of paragraph 14.02.D) become due, and when due will be paid by OWNER to CONTRACTOR.

D. *Reduction in Payment*

1. OWNER may refuse to make payment of the full amount recommended by ENGINEER because:

a. claims have been made against OWNER on account of CONTRACTOR's performance or furnishing of the Work;

b. Liens have been filed in connection with the Work, except where CONTRACTOR has delivered a specific Bond satisfactory to OWNER to secure the satisfaction and discharge of such Liens;

c. there are other items entitling OWNER to a set-off against the amount recommended; or

d. OWNER has actual knowledge of the occurrence of any of the events enumerated in paragraphs 14.02.B.5.a through 14.02.B.5.c or paragraph 15.02.A.

2. If OWNER refuses to make payment of the full amount recommended by ENGINEER, OWNER must give CONTRACTOR immediate written notice (with a copy to ENGINEER) stating the reasons for such action and promptly pay CONTRACTOR any amount remaining after deduction of the amount so withheld.

OWNER shall promptly pay CONTRACTOR the amount so withheld, or any adjustment thereto agreed to by OWNER and CONTRACTOR, when CONTRACTOR corrects to OWNER's satisfaction the reasons for such action.

3. If it is subsequently determined that OWNER's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due *as* determined by paragraph 14.02.C.1.

14.03 *CONTRACTOR's Warranty of Title*

A. CONTRACTOR warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to OWNER no later than the time of payment free and clear of all Liens.

14.04 *Substantial Completion*

A. When CONTRACTOR considers the entire Work ready for its intended use CONTRACTOR shall notify OWNER and ENGINEER in writing that the entire Work is substantially complete (except for items specifically listed by CONTRACTOR *as* incomplete) and request that ENGINEER issue a certificate of Substantial Completion Promptly thereafter, OWNER, CONTRACTOR, and ENGINEER shall make an inspection of the Work to determine the status of completion. If ENGINEER does not consider the Work substantially complete, ENGINEER will notify CONTRACTOR in writing giving the reasons therefore. If ENGINEER considers the Work substantially complete, ENGINEER will prepare and deliver to OWNER a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. OWNER shall have seven days after receipt of the tentative certificate during which to make written objection to ENGINEER *as* to any provisions of the certificate or attached list. If, after considering such objections, ENGINEER concludes that the Work is not substantially complete, ENGINEER will within 14 days after submission of the tentative certificate to OWNER notify CONTRACTOR in writing stating the reasons therefor. If, after consideration of OWNER's objections, ENGINEER considers the Work substantially complete, ENGINEER will within said 14 days execute and deliver to OWNER and CONTRACTOR a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as ENGINEER believes justified after consideration of any objections from OWNER. At the time of delivery of the tentative certificate of Substantial Completion ENGINEER will deliver to OWNER and CONTRACTOR a written recommendation as to division of responsibilities

pending final payment between OWNER and CONTRACTOR with respect to security, operation, safety, and protection of the Work, maintenance; heat, utilities, insurance, and warranties and guarantees. Unless OWNER and CONTRACTOR agree otherwise in writing and so inform ENGINEER in writing prior to ENGINEER's issuing the definitive certificate of Substantial Completion, ENGINEER'S aforesaid. recommendation will be binding on OWNER and CONTRACTOR until final payment.

B. OWNER shall have the right to exclude CONTRACTOR from the Site after the date of Substantial Completion; but OWNER shall allow CONTRACTOR reasonable access to complete or correct items on the tentative list.

14.05 *Partial Utilization*

A. Use by OWNER at OWNER's option of any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which OWNER, ENGINEER, and CONTRACTOR agree constitutes a separately functioning and usable part of the Work that can be used by OWNER for its intended purpose without significant interference with CONTRACTOR's performance of the remainder of the Work, may be accomplished prior to Substantial Completion of all the Work subject to the following conditions.

1. OWNER at any time may request CONTRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and substantially complete. If CONTRACTOR agrees that such part of the Work is substantially complete, CONTRACTOR will certify to OWNER and ENGINEER that such part of the Work is substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. CONTRACTOR at any time may notify OWNER and ENGINEER in writing that CONTRACTOR considers any such part of the Work ready for its intended use and substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. Within a reasonable time after either such request, OWNER, CONTRACTOR, and ENGINEER shall make an inspection of that part of the Work to determine its status of completion. If ENGINEER does. not consider that part of the Work to be substantially complete, ENGINEER will notify OWNER and CONTRACTOR in writing giving the reasons therefor. If ENGINEER considers that part of the Work to be substantially complete, the provisions of paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

2. No occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of paragraph 5.10 regarding property insurance.

14.06 *Final Inspection*

A. Upon written notice from CONTRACTOR that the entire Work or an agreed portion thereof is complete, ENGINEER will promptly make a final inspection with OWNER and CONTRACTOR and will notify CONTRACTOR in writing of all particulars in which this inspection reveals that the Work is incomplete or defective. CONTRACTOR shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.07 *Final Payment*

. .

A. *Application for Payment*

1. After CONTRACTOR has, in the opinion of ENGINEER, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, Bonds, certificates or other evidence of insurance certificates of inspection, marked-up record documents (as provided in paragraph 6.12), and other documents, CONTRACTOR may make application for final payment following the procedure for progress payments,

2. The final Application for Payment shall be accompanied (except as previously delivered) by: (i) all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by subparagraph 5.04.B.7; (ii) consent of the surety, if any, to final payment; and (iii) complete and legally effective releases or waivers·(satisfactory to OWNER) of all Lien rights arising out of-or Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in paragraph 14.07.A.2 and as approved by OWNER, CONTRACTOR may furnish receipts or releases in full and an affidavit of CONTRACTOR that:
(i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and
(ii) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which OWNER or OWNER's property might in any way be responsible have been paid or otherwise satisfied, If any Subcontractor or Supplier fails to furnish such a release or receipt in full, CONTRACTOR may furnish a Bond or other collateral satisfactory to OWNER to indemnify OWNER against any Lien.

B. *Review of Application and Acceptance*

1. If, on the basis of ENGINEER's observation of the Work during construction and final inspection, and ENGINEER's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, ENGINEER is satisfied that the Work bas been completed and CONTRACTOR's other obligations under the Contract Documents have been fulfilled, ENGINEER will, within ten days after receipt of the final Application for Payment, indicate in writing ENGINEER's recommendation of payment and present the Application for Payment to OWNER for payment. At the same time ENGINEER will also give written notice to OWNER and CONTRACTOR that the Work is acceptable subject to the provisions of

paragraph 14.09. Otherwise, ENGINEER will return the Application for Payment to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment, in which case CONTRACTOR shall make the necessary corrections and resubmit the Application for Payment.

C. *Payment Becomes Due*

1. Thirty days after the presentation to OWNER of the Application for Payment and accompanying documentation, the amount recommended by ENGINEER will become due and, when due, will be paid by OWN- ER to CONTRACTOR.

14.08 *Final Completion Delayed*

A. If, through no fault of CONTRACTOR, final completion of the Work is significantly delayed, and if ENGINEER so confirms, OWNER shall, upon receipt of CONTRACTOR's final Application for Payment and recommendation of ENGINEER, and without terminating the Agreement, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by OWNER for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if Bonds have been furnished as required in paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by CON- TRACTOR to ENGINEER with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

14.09 *Waiver of Claims*

A. The making and acceptance of final payment will constitute:

1. a waiver of all Claims by OWNER against CONTRACTOR, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from CONTRACTOR's continuing obligations under the Contract Documents; and

2. a waiver of all Claims by CONTRACTOR against OWNER other than those previously made in writing which are still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 *OWNER May Suspend Work*

A. At any time and without cause, OWNER may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to CONTRACTOR and ENGINEER which will fix the date on which Work will be resumed. CONTRACTOR shall resume the Work on the date so fixed. CONTRACTOR shall be allowed an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if CONTRACTOR makes a Claim therefore as provided in paragraph 10.05.

15.02 *OWNER May Terminate for Cause*

A. The occurrence of any one or more of the following events will justify termination for cause:

1. CONTRACTOR's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2.07 as adjusted from time to time pursuant to paragraph 6.04);

2. CONTRACTOR's disregard of Laws or Regulations of any public body having jurisdiction;

3. CONTRACTOR's disregard of the authority of ENGINEER; or

4. CONTRACTOR's violation in any substantial way of any provisions of the Contract Documents.

B. If one or more of the events identified in paragraph 15,02.A occur, OWNER may, after giving CONTRACTOR (and the surety, if any) seven days written notice, terminate

the services of CONTRACTOR, exclude CONTRACTOR from the Site, and take possession of the Work and of all CONTRACTOR's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by CONTRACTOR (without liability to CONTRACTOR for trespass or conversion), incorporate in the Work all materials and equipment stored at the Site or for which OWNER has paid CONTRACTOR but which are stored elsewhere, and finish the Work as OWNER may deem expedient. In such case, CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by OWNER arising out of or relating to completing the Work, such excess will be paid to CONTRACTOR. If such claims, costs, losses, and damages exceed such unpaid balance, CONTRACTOR shall pay the difference to OWNER. Such claims, costs, losses, and damages incurred by OWNER will be reviewed by ENGINEER as to their reasonableness and, when so approved by ENGINEER, incorporated in a Change Order. When exercising any rights or remedies under this paragraph OWNER shall not be required to obtain the lowest price for the Work performed.

C. Where CONTRACTOR's services have been so terminated by OWNER, the termination will not affect any rights or remedies of OWNER against CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys due CONTRACTOR by OWNER will not release CONTRACTOR from liability.

15.03 *OWNER May Terminate For Convenience*

A. Upon seven days written notice to CONTRACTOR and ENGINEER, OWNER may, without cause and without prejudice to any other right or remedy of OWNER, elect to terminate the Contract. In such case, CONTRACTOR shall be paid (without duplication of any items):

1. for completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. for expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;

3. for all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and

4. for reasonable expenses directly attributable to termination.

B. CONTRACTOR shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

15.04 *CONTRACTOR May Stop Work or Terminate*

A. If, through no act or fault of CONTRACTOR, the Work is suspended for more than 90 consecutive days by OWNER or under an order of court or other public authority, or ENGINEER fails to act on any Application for Payment within 30 days after it is submitted, or OWNER falls for 30 days to pay CONTRACTOR any sum formally determined to be due, then CONTRACTOR may, upon seven days written notice to OWNER and ENGINEER, and provided OWNER or ENGINEER do not remedy such suspension or failure within that time, terminate the Contract and recover from OWNER payment on the same terms as provided io paragraph 15.03. In lieu of terminating the Contract and without prejudice to any other right or remedy, if ENGI- NEER bas failed to act on an Application for Payment within 30 days after it is submitted, or OWNER bas failed for 30 days to pay CONTRACTOR any sum formally determined to be due, CONTRACTOR may, seven days after written notice to OWNER and ENGINEER, stop the Work until payment is made of all such amounts due CONTRACTOR, including interest thereon. The provisions of this paragraph 15.04 are not intended to preclude CONTRACTOR from making a Claim under paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to CONTRACTOR's stopping the Work as permitted by this paragraph.

ARTICLE 16 - DISPUTE RESOLUTION

16.01 *Methods and Procedures*

A. Dispute resolution methods and procedures, if any, shall be as set forth in the Supplementary Conditions. If no method and procedure has been set forth, and subject to the provisions of paragraphs 9.09 and 10.05, OWNER and CONTRACTOR may exercise such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations io respect of any dispute.

17.01 *Giving Notice*

A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 *Computation of Times*

A. When any period of time is referred to io the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation. .

17.03 *Cumulative Remedies*

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents, and the provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 *Survival of Obligations*

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Agreement.

17.05 *Controlling Law*

A. This Contract is to be governed *by* the law of the state in which the Project is located.

SUPPLEMENTARY CONDITIONS

SUPPLEMENTARY CONDITIONS

1. CONTRACTOR'S & SUBCONTRACTOR'S INSURANCE & LIMITS

The Contractor shall provide insurance as specified in the General Conditions with coverage not less than the following amounts or greater where required by law.

- Workmen's Compensation - Statutory

- Disability Benefits - Statutory

- Comprehensive Automobile Liability (including owned, non-owned, and hired autos)
  Combined Single Limit (bodily injury and property damage) - $1,000,000

- Comprehensive General Liability
  (including contractual, products and completed operations coverage)

  1. General Aggregate - $2,000,000
  2. Products-Completed Operations Aggregate - $1,000,000
  3. Personal Injury - $1,000,000
  4. Each Occurrence - $1,000,000

- Excess Liability - $1,000,000

THE CITY OF BEACON AND LANC & TULLY ENGINEERING AND SURVEYING, P.C. SHALL BE NAMED ON ALL POLICIES AS ADDITIONAL INSURED.

The Contractor shall either:

1. Require each of his subcontractors to procure and to maintain during the life of his subcontract, Subcontractor's Public Liability and Property Damage of the type and in the same amounts and adding additional insureds as specified in the preceding paragraph; or
2. Insure the activities of his subcontractors in his own policy.

2. SALES TAX

The City of Beacon is exempt from sales tax from the State of New York or any City or County in the State of New York for any material which is to be incorporated in this project. The City will make available to the successful bidder the tax exemption number and form to be used to the extent permitted under the present applicable statutes.

3. EQUAL EMPLOYMENT OPPORTUNITY

During the performance of this contract, the Contractor agrees as follows:

A. The Contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status or sex. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants; for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause:

B. The Contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, or sex.

C. The Contractor or subcontractor where applicable, will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the Contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

D. During the performance of this contract the Contractor or subcontractor agrees not to employ on such project any alien in the United States in violation of the Immigration and Nationality Act or any other law, convention, or treaty of the United States relating to the immigration, exclusion, deportation, or expulsion of aliens.

4. CLARIFICATION OF GENERAL CONDITIONS ¶4.05 "REFERENCE POINTS"

The Owner shall provide the following engineering surveys. Location plans of proposed work and construction details shall be supplied to Contractor. **NO** staking shall be done by the Owner. If staking is required by Contractor, it shall be done at Contractor's cost.

5. AMENDMENTS TO GENERAL CONDITIONS

These Supplementary Conditions amend or supplement the General Conditions of the Construction Contract and other provisions of the Contract Documents as indicated below. All provisions which are not so amended or supplemented remain in full force and effect.

A. The Contractor shall have full responsibility for compliance with the Industrial Code including without limitation § 23 and 53. The Contractor shall have the duty to notify operators of underground facilities as provided therein. See also General Conditions, Paragraph 4.04.

B. **No payment to the Contractor shall be due until thirty (30) days after audit and approval by the City Council at a regularly scheduled monthly meeting.**

C. *The Contract*: It is understood that all the documents and/or specifications constitute a part of this agreement; that those documents are incorporated into this agreement as if set out at length at this point and that the award of the contract on the basis of the proposal constitutes a contract; the execution of this agreement being a mere formality.

D. *Responsibility for Work*: The Contractor covenants and agrees at their own proper cost, charge and expense, to furnish all machinery, appliances, tools, labor and material necessary or proper to do all the work necessary to construct all the works, equipment and fixtures, appurtenant thereto, as set forth in the Contractor's proposal as accepted by the City.

E. *Payment*: The City, in consideration of the Contractor faithfully complying with all the terms and conditions herein set forth agrees to pay the Contractor at the price as set forth in the Contractor's proposal as accepted by the Owner, upon the terms and conditions for monthly payments on estimates as may be set forth in the specifications. Payment requests shall be on properly completed forms provided by the City.

F. *Interest in Contract*: The Contractor agrees that the only person or persons interested as principal or principals in the proposal submitted by the Contractor for this contract are named therein and that no person other than those mentioned therein, except regular agents of the Contractor, has any interest in the said proposal or in the securing of the award, and that this contract has been secured without any connection with any person or persons other than those named, and that the proposal is in all respects fair, and was prepared, and the contract was secured, without collusion or fraud, and that no officer or employee of the City has or shall have a financial interest in the performance of the contract or in the work or business to which it relates, or in any portion of the proceeds thereof.

G. *Compliance with Law*: The Contractor agrees to comply with all applicable laws, rules and regulations; the cost of such compliance and the fees for any permits required will be at the expense of the Contractor.

H. *Labor Law*: The Contractor agrees to comply with all applicable provisions of the Labor Law. Particular attention is drawn to the anti-discrimination provisions. Applicable wage determinations, as may be revised from time- to-time, shall be deemed inserted as if set forth at length at this point.

I. *Required Provisions*: All provisions required by law to be inserted into this contract are hereby deemed inserted as if expressly set forth at this point.

J. *Assignment*: This contract shall bind the parties, hereto, and their heirs, executors, administrators, successors and assigns respectively, and may not be assigned by the Contractor without written consent of the Owner.

5. AMENDMENTS TO GENERAL CONDITIONS - continued

K. *Subcontractors*: The Owner reserves the right to approve all subcontractors. The Contractor will notify the Owner of the name and address of any such subcontractor intended for employment, the portion of the work which they are to do or the material which they are to furnish, their place of business and such other information as the Owner may require, in order to know whether such subcontractor is reputable and reliable and able to perform the work as called for in the specifications. The Contractor shall not be released from any liabilities or obligations under this contract, should any subcontractor fail to perform in a satisfactory manner the work undertaken by that subcontractor.

L. *Indemnification and Insurance*: Neither the City nor any of its officers or agents shall in any manner be answerable or responsible for any loss or damage that shall or may happen during the performance of this contract by the Contractor, nor shall it be in any manner answerable or responsible for any injury done or damages or compensation required to be paid under any present or future law, to any person or persons whatever, whether employees of the Contractor or otherwise, or for damages to any property, whether belonging to the City or to others occurring during or resulting during the performance of this contract by the Contractor. Against all such injuries, damages and compensation, the Contractor shall and will properly guard. The Contractor shall also, at all times, indemnify and save the City and its officers and agents harmless against all such injuries, damages and compensation arising or resulting from the performance of this contract. The Contractor shall provide the City a certificate of insurance indicating insurance coverage acceptable to the City.

M. *Time for Performance*: The Contractor shall proceed diligently toward the prompt completion of the work. The Contractor shall have no claim against the City for damages for delay unless the Owner is found to have caused such damage while acting in bad faith and with deliberate intent. The City agrees that the time for performance may, upon written application, be extended for such period of time as the governing board of the City deems reasonable upon the circumstances. Nothing herein shall limit the Contractor's rights against others causing such delays.

N. *Remedies*: In addition to such remedies, the City may have in law or equity upon the Contractor's breach of this agreement, the City may terminate or suspend the agreement, or perform any part of the work at the expense of the Contractor as is determined to be in the best interest of the City.

O. *Notice of Claim*: Service of a Verified Claim on the City Clerk within ninety (90) days of accrual of a claim against the City or completion of the work or portion thereof, whichever is earlier, and the expiration of forty (40) days thereafter shall be a condition precedent to the commencement by the Contractor of any action or proceeding with respect to this agreement. In no event shall an action be commenced by the Contractor subsequent to the tender of payment on the Contractor's final voucher under this agreement.

5. AMENDMENTS TO GENERAL CONDITIONS - continued

P. The following revisions and/or additions are an expansion of the General Conditions and, therefore, the section listed below relate to the General Conditions.

1.01 Defined Terms

A. 23. *Hazardous Environmental Condition*—Insert after the word "that" in the third line:requires reporting to any federal, state or local authority, or under circumstances that…

2.05 Before Starting Construction

C. Evidence of Insurance: Before any work at the site is started, CONTRACTOR shall deliver to the OWNER, with copies to each Additional Insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured my reasonably request) which CONTRACTOR is required to purchase and maintain in accordance with Article 5.

2.07 Initial Acceptance of Schedules

A. 1. Insert at end of paragraph: Pursuant to paragraph 5(M) of the Supplementary Conditions' Amendments to General Conditions, the schedule will not determine to cost for delay claims against the OWNER.

3. Insert at end of paragraph: Pursuant to paragraph 5(M) of the Supplementary Conditions' Amendments to General Conditions, the schedule of values will not determine to cost for delay claims against the OWNER.

4.01 Availability of Lands

C. Insert at end of paragraph: CONTRACTOR shall enter into a separate, written agreement with any and all landowners whose real property will be used for access or storage by CONTRACTOR in connection with this Agreement. Such agreement shall include express language that the City shall be held harmless by the landowner for any damage to the property caused by CONTRACTOR's activities thereon. CONTRACTOR shall ensure that such real property and any activity on such property is covered by the insurance required by this contract and provide a copy of the fully-executed agreement between CONTRACTOR and the landowner prior to commencement of any use or storage on the affected property.

4.02 Subsurface and Physical Conditions

B. No reliance by CONTRACTOR on Technical Data: Contractor may rely upon the general accuracy of the "technical data" contained in such reports and drawings, and such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER, or any of ENGINEER'S Consultants with respect to:

4.03 Differing Subsurface or Physical Conditions

A. 1. is of such a nature as to establish that any "technical data" is materially inaccurate; or

5. AMENDMENTS TO GENERAL CONDITIONS - continued

C. Possible Time Adjustments

1. The Contract Times, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in CONTRACTOR'S time required for performance of the Work, however, such condition must meet any one or more of the categories described in paragraph 4.03.A.

   b. delete

2. CONTRACTOR shall not be entitled to any adjustment in the Contract Times if:

3. If OWNER and CONTRACTOR are unable to agree on entitlement or on the amount or extent, if any, of any adjustment in the Contract Ties, a Claim may be made therefore as provided in paragraph 10.05 concerning Contract Times only. However, OWNER, ENGINEER, and ENGINEER'S Consultants shall not be liable to CONTRACTOR for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by CONTRACTOR on or in connection with any other project or anticipated project.

4.03 Differing Subsurface or Physical Conditions

Insert: D. The CONTRACTOR shall be responsible for verifying any subsurface conditions before any work in such area commences. The CONTRACTOR shall not be entitled to any extra fee or extra compensation based upon the difference between actual subsurface conditions and data, information, or test results secured or furnished by any source. The CONTRACTOR agrees that it has satisfied itself by it own investigation and research regarding all the conditions affecting the work to be done and labor and material needed and that its conclusion to execute the contract is based on such information and research and not on the estimate of quantities or other information that ENGINEER has used in preparation of the Contract Documents.

4.04 Underground Facilities

B. 1. Delete the words starting in the third line: ", or not shown or indicated with reasonable accuracy"

2. Delete the words starting in the eighth line: "or not shown or indicated with reasonable accuracy"

5. AMENDMENTS TO GENERAL CONDITIONS - continued

4.06 Hazardous Environmental Condition at Site

B. Limited Reliance by CONTRACTOR on Technical Data Authorized: CONTRACTOR may rely upon the general accuracy of the technical data contained in such reports and drawings as they pertain to any hazardous environmental conditions at the site, but such reports and drawings are not Contract Documents. Such technical data is identified in the Supplementary Conditions. Except for such reliance on such technical data CONTRACTOR may not rely upon or make any Claim against, OWNER, ENGINEER, or any of ENGINEER'S Consultants with respect to:

5.04 CONTRACTOR's Liability Insurance

A. Insert after the word "appropriate" in the second line: ", or as specified by OWNER,"

5.06 Delete in entirety.

5.07 C. Delete in entirety.

5.08 Delete in entirety.

5.10 Delete in entirety.

6.02 Labor; Working Hours

B. Insert at the end of the paragraph: Subject to Article 12, CONTRACTOR shall be responsible for all additional costs and expenses, including overtime compensation, incurred as the result of CONTRACTOR, or any of its subcontractors, performing Work on Saturdays, Sundays or legal holidays, in order to comply with the Contract Times. Notwithstanding the preceding sentence, OWNER shall bear all such additional costs and expenses where CONTRACTOR, or its subcontractors, perform Work on weekends or legal holidays in order to comply with an acceleration of the Contract Times ordered in writing by OWNER.

6.11 Use of Site and Other Areas

A. *Limitation on Use of Site and Other Areas*

1. Insert at end of paragraph: Nothing in this paragraph shall prohibit CONTRACTOR from entering into an agreement for access or storage of materials or equipment as provided for in paragraph 4.01(C).

6.17 Shop Drawings and Samples

F. Resubmittal Procedures

1. Insert after the word "approval" in the fourth line: "in accordance with a deadline set by ENGINEER."

5. AMENDMENTS TO GENERAL CONDITIONS - continued

9.01 OWNER's Representative

A. Delete in the second line: "the construction period" and insert: "performance of all Work and during any modification or correction thereof."

10.06 The Contractor shall and will at no time make any claim for anticipated profit or loss of profits, because of any difference between the quantities of the various classes of work actually done, or of the materials actually furnished, and the original specified scope of work and the shown approximate estimated quantities.

10.07 The Contractor waives all claims of any nature due to a misunderstanding of the location, character, or other conditions surrounding the work or of the shown approximate estimated quantities of items of the work.

11.03 Unit Price Work

C. 1. - 3. Delete in entirety.

Insert: The CONTRACTOR agrees:

1. That he will make no claim of any nature against the OWNER or ENGINEER because of a difference between the quantities for unit price items of Work actually furnished and the estimated quantities state in the Bid even though the estimated quantities prove grossly different from the quantities actually used, and

2. That quantity of any unit price item or Work may be increased or decreased as may be deemed necessary without alteration or modification of the Contract.

Insert: D. In the event that the quantities of various items actually used are either higher or lower than the quantities stated in the Bid, the CONTRACTOR agrees as follows:

1. Where the change in quantities for any item in the regional bid does not exceed 20% of the original bid quantity, the applicable unit price bid shall be the sole basis for computing payment;

2. Where the change in quantities for any item in the original bid exceeds 20% of the original bid quantity, the OWNER, may review the unit price for said item to determine if a new unit price should be negotiated.

12.06 Delay Damages

A. In no event shall OWNER or ENGINEER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surety for or employee or agent of any of them, for damages or claims for additional compensation arising out of or resulting from:

B. Delete in entirety.

5. AMENDMENTS TO GENERAL CONDITIONS - continued

13.07 Correction Period

A. Delete the words "one year" in the first line and insert the words "two years." Insert at the end of the paragraph: Nothing contained in this Paragraph 13.07 shall be construed to establish a period of limitation with respect to other obligations which the CONTRACTOR might have under the Contract Documents. Establishment of the time period of two years as describe in this paragraph relates only to the specific obligation of the CONTRACTOR to correct the Work and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the CONTRACTOR's liability with respect to the CONTRACTOR's obligations other than specifically to correct the Work.

B. Delete the word "Specifications" and insert the words "Contract Documents."

13.09 OWNER May Correct Defective Work

A. Delete the words "a reasonable time" in the first line and insert the words "forty five (45) days."

14.02 Progress Payments

A. Application for Payments

1. Insert at the end of the paragraph: Notwithstanding the preceding sentence, OWNER shall not be required to pay CONTRACTOR, or any subcontractor, for materials or equipment delivered but not incorporated in the Work, except where such equipment or materials are in short or critical supply, as agreed to by the ENGINEER, or were specifically fabricated for the Work.

B. Review of Applications

3. Delete the phrase beginning in the third line: "inspections made to check the quality or quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to ENGINNER in the Contract Documents" and insert: "the Work is free of defects not capable of discovery by ENGINEER in performing a reasonable inspection of the Work…"

14.10 Payments to Subcontractors and Materialmen by Contractor

Within fifteen calendar days of the receipt of any payment from the Owner, the Contractor shall pay each of his subcontractors and materialmen the proceeds from the payment representing the value of the work performed and/or materials furnished by the subcontractor and/or materialmen as reflected in the payment from the Owner less an amount necessary to satisfy any claims, liens, or judgement against the subcontractor or materialmen which have not been suitably discharged and less any retained amount as hereafter described. The Contractor shall retain not more than 5% of each payment to the subcontractor and/or materialmen except that the Contractor may retain in excess of 5% but not more

then 10% of each payment to the subcontractor provided that prior to entering into a subcontract with the Contractor, the subcontractor is unable or unwilling to provide a performance bond and a labor and material bond both in the full amount of the subcontract at the request of the Contractor. However, the Contractor shall retain nothing from the payments representing proceeds owned the subcontractor and/or materialmen from the Owner's payments to the Contractor from the remaining amounts of the contract balance as provided in Article 14.07 of this section. Within fifteen calendar days of the receipts of payment from the Contractor, the subcontractor and/or materialmen shall pay each of his subcontractors and materialmen in the same manner as the Contractor has paid the subcontractor. Nothing provided herein shall create any obligation on the part of the Owner to pay or to see to the payment of any monies to any subcontractor or materialmen from the Contractor nor shall anything provided herein serve to create any relationship in contract or otherwise, implied or expressed, between the subcontractor or materialman and the Owner.

However, the Contractor shall retain nothing from the payments representing proceeds owned the subcontractor and/or materialmen from the Owner's payments to the Contractor from the remaining amounts of the contract balance as provided in Article 14.07 of this section. Within fifteen calendar days of the receipts of payment from the Contractor, the subcontractor and/or materialmen shall pay each of his subcontractors and materialmen in the same manner as the Contract has paid the subcontractor. Nothing provided herein shall create any obligation on the part of the Owner to pay or to see to the payment of any monies to any subcontractor or materialmen from the Contractor nor shall anything provided herein serve to create any relationship in contract or otherwise, implied or expressed, between the subcontractor or materialmen and the Owner.

15.02 Owner May Terminate for Cause

5. The Contractor becomes insolvent;

6. The Contractor makes an assignment for the benefit of creditors pursuant to the statutes of the State of New York;

7. A voluntary or involuntary petition in bankruptcy if filed by or against the Contractor;

8. A receiver or receivers are appointed to take charge of the Contractor's property or affairs;

9. The Contractor shall sublet, assign, transfer, convey or otherwise dispose of the contractor other than as herein specified.

15.03 OWNER May Terminate For Convenience

3. Delete in entirety

5. AMENDMENTS TO GENERAL CONDITIONS - continued

Q. Delete in its entirety Article 16 entitled "Dispute Resolution". The City of Beacon does not agree to participate in an arbitration concerning any controversy arising under this contract. The parties to this contract designate Dutchess County as the proper venue to commence any action arising from this contract.

6. SCHEDULE OF OCCUPATIONAL CLASSIFICATIONS & MINIMUM HOURLY WAGE RATES

Contractors and subcontractors are to meet "The Prevailing Wage Schedules" as published by New York State Department of Labor & Federal Wage Rates attached herein.

NEW YORK STATE WAGE RATES

Kathy Hochul, Governor

Roberta Reardon, Commissioner

City of Beacon

John Russo
PO Box 687
Goshen NY 10924

Schedule Year	2025 through 2026
Date Requested	08/18/2025
PRC#	2025010411

Location	Beacon Highway Garage
Project ID#	
Project Type	Installation of roof top solar array

PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

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

The schedule is effective from July 2025 through June 2026. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.ny.gov. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

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

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

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

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

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

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

Introduction

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

Contractor Registry

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

For additional information, please visit online.

Responsibilities of the Department of Jurisdiction

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

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

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

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

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

Hours

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

Wages and Supplements

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

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

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

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 12226 or by Fax to NYSDOL Apprenticeship Training (518) 457-7154. All requests for verification must include the name and social security number of the person for whom the information is requested.

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

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

Interest and Penalties

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

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

Debarment

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

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

Criminal Sanctions

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

Discrimination

No employee or applicant for employment may be discriminated against on account of age, race, creed, color, national origin, sex, disability or marital status.

No contractor, subcontractor nor any person acting on its behalf, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates (NYS Labor Law, Article 8, Section 220-e(a)).

No contractor, subcontractor, nor any person acting on its behalf, shall in any manner, discriminate against or intimidate any employee on account of race, creed, color, disability, sex, or national origin (NYS Labor Law, Article 8, Section 220-e(b)).

The Human Rights Law also prohibits discrimination in employment because of age, marital status, or religion.

There may be deducted from the amount payable to the contractor under the contract a penalty of $50.00 for each calendar day during which such person was discriminated against or intimidated in violation of the provision of the contract (NYS Labor Law, Article 8, Section 220-e(c)).

The contract may be cancelled or terminated by the State or municipality. All monies due or to become due thereunder may be forfeited for a second or any subsequent violation of the terms or conditions of the anti-discrimination sections of the contract (NYS Labor Law, Article 8, Section 220-e(d)).

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

Workers' Compensation

In accordance with Section 142 of the State Finance Law, the contractor shall maintain coverage during the life of the contract for the benefit of such employees as required by the provisions of the New York State Workers' Compensation Law.

A contractor who is awarded a public work contract must provide proof of workers' compensation coverage prior to being allowed to begin work.

The insurance policy must be issued by a company authorized to provide workers' compensation coverage in New York State. Proof of coverage must be on form C-105.2 (Certificate of Workers' Compensation Insurance) and must name this agency as a certificate holder.

If New York State coverage is added to an existing out-of-state policy, it can only be added to a policy from a company authorized to write workers' compensation coverage in this state. The coverage must be listed under item 3A of the information page.

The contractor must maintain proof that subcontractors doing work covered under this contract secured and maintained a workers' compensation policy for all employees working in New York State.

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

Unemployment Insurance

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

Kathy Hochul, Governor

Roberta Reardon, Commissioner

City of Beacon

John Russo
PO Box 687
Goshen NY 10924

Schedule Year 2025 through 2026
Date Requested 08/18/2025
PRC# 2025010411

Location Beacon Highway Garage
Project ID#
Project Type Installation of roof top solar array

Notice of Contract Award

New York State Labor Law, Article 8, Section 220.3a requires that certain information regarding the awarding of public work contracts, be furnished to the Commissioner of Labor. One "Notice of Contract Award" (PW 16, which may be photocopied), **MUST** be completed for **EACH** prime contractor on the above referenced project.

Upon notifying the successful bidder(s) of this contract, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

Contractor Information
All information must be supplied

Federal Employer Identification Number: _____

Name: _____

Address: _____

_____

City: _____ State: _____ Zip: _____

Amount of Contract: $_____

Approximate Starting Date: ____/____/____

Approximate Completion Date: ____/____/____

Contract Type:
- [ ] (01) General Construction
- [ ] (02) Heating/Ventilation
- [ ] (03) Electrical
- [ ] (04) Plumbing
- [ ] (05) Other : _____

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

Social Security Numbers on Certified Payrolls:

The Department of Labor is cognizant of the concerns of the potential for misuse or inadvertent disclosure of social security numbers. Identity theft is a growing problem and we are sympathetic to contractors' concern regarding inclusion of this information on payrolls if another identifier will suffice.

For these reasons, the substitution of the use of the last four digits of the social security number on certified payrolls submitted to contracting agencies on public work projects is now acceptable to the Department of Labor. This change does not affect the Department's ability to request and receive the entire social security number from employers during its public work/ prevailing wage investigations.

Construction Industry Fair Play Act: Required Posting for Labor Law Article 25-B § 861-d

Construction industry employers must post the "Construction Industry Fair Play Act" notice in a prominent and accessible place on the job site. Failure to post the notice can result in penalties of up to $1,500 for a first offense and up to $5,000 for a second offense. The posting is included as part of this wage schedule. Additional copies may be obtained from the NYS DOL website, https://dol.ny.gov/public-work-and-prevailing-wage
If you have any questions concerning the Fair Play Act, please call the State Labor Department toll-free at 1-866-435-1499 or email us at: dol.misclassified@labor.ny.gov .

Worker Notification: (Labor Law §220, paragraph a of subdivision 3-a)

Effective June 23, 2020

This provision is an addition to the existing wage rate law, Labor Law §220, paragraph a of subdivision 3-a. It requires contractors and subcontractors to provide written notice to all laborers, workers or mechanics of the *prevailing wage and supplement rate* for their particular job classification *on each pay stub**. It also requires contractors and subcontractors to *post a notice* at the beginning of the performance of every public work contract *on each job site* that includes the telephone number and address for the Department of Labor and a statement informing laborers, workers or mechanics of their right to contact the Department of Labor if he/she is not receiving the proper prevailing rate of wages and/or supplements for his/her job classification. The required notification will be provided with each wage schedule, may be downloaded from our website *www.labor.ny.gov* or be made available upon request by contacting the Bureau of Public Work at 518-457-5589. *In the event the required information will not fit on the pay stub, an accompanying sheet or attachment of the information will suffice.

(12.20)

To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

Budget Policy & Reporting Manual

B-610

Public Work Enforcement Fund

effective date December 7, 2005

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1. Purpose and Scope:

This Item describes the Public Work Enforcement Fund (the Fund, PWEF) and its relevance to State agencies and public benefit corporations engaged in construction or reconstruction contracts, maintenance and repair, and announces the recently-enacted increase to the percentage of the dollar value of such contracts that must be deposited into the Fund. This item also describes the roles of the following entities with respect to the Fund:

- New York State Department of Labor (DOL),
- The Office of the State of Comptroller (OSC), and
- State agencies and public benefit corporations.

2. Background and Statutory References:

DOL uses the Fund to enforce the State's Labor Law as it relates to contracts for construction or reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law. State agencies and public benefit corporations participating in such contracts are required to make payments to the Fund.

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

3. Procedures and Agency Responsibilities:

The Fund is supported by transfers and deposits based on the value of contracts for construction and reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law, into which all State agencies and public benefit corporations enter.

Chapter 407 of the Laws of 2005 increased the amount required to be provided to this fund to .10 of one-percent of the total cost of each such contract, to be calculated at the time agencies or public benefit corporations enter into a new contract or if a contract is amended. The provisions of this bill became effective August 2, 2005.

To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

OSC will report to DOL on all construction-related ("D") contracts approved during the month, including contract amendments, and then DOL will bill agencies the appropriate assessment monthly. An agency may then make a determination if any of the billed contracts are exempt and so note on the bill submitted back to DOL. For any instance where an agency is unsure if a contract is or is not exempt, they can call the Bureau of Public Work at the number noted below for a determination. Payment by check or journal voucher is due to DOL within thirty days from the date of the billing. DOL will verify the amounts and forward them to OSC for processing.

For those contracts which are not approved or administered by the Comptroller, monthly reports and payments for deposit into the Public Work Enforcement Fund must be provided to the Administrative Finance Bureau at the DOL within 30 days of the end of each month or on a payment schedule mutually agreed upon with DOL.

Reports should contain the following information:

- Name and billing address of State agency or public benefit corporation;
- State agency or public benefit corporation contact and phone number;
- Name and address of contractor receiving the award;
- Contract number and effective dates;
- Contract amount and PWEF assessment charge (if contract amount has been amended, reflect increase or decrease to original contract and the adjustment in the PWEF charge); and
- Brief description of the work to be performed under each contract.

Checks and Journal Vouchers, payable to the "New York State Department of Labor" should be sent to:

Department of Labor
Administrative Finance Bureau-PWEF Unit
Building 12, Room 464
State Office Campus
Albany, NY 12226

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

NEW YORK STATE OF OPPORTUNITY. Department of Labor

Required Notice under Article 25-B of the Labor Law

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

The law says that you are an employee unless:

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

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

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

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

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

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

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

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

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

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

Employer Name:

IA 999 (09/16)

WE ARE YOUR DOL

NEW YORK STATE Department of Labor

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.

Your pay stub and wage notice received upon hire must clearly state your wage rate and supplement rate.

Chapter 629 of the Labor Laws of 2007:

These wages are set by law and must be posted at the work site. They can also be found at: https://dol.ny.gov/bureau-public-work

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

Albany	(518) 457-2744	Patchogue	(631) 687-4882
Binghamton	(607) 721-8005	Rochester	(585) 258-4505
Buffalo	(716) 847-7159	Syracuse	(315) 428-4056
Garden City	(516) 228-3915	Utica	(315) 793-2314
New York City	(212) 932-2419	White Plains	(914) 997-9507
Newburgh	(845) 568-5287		

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

Contractor Name: _____

Project Location: _____

Requirements for OSHA 10 Compliance

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

The Bureau will enforce the statute as follows:

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

Proof of completion may include but is not limited to:

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

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

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

WICKS

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

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

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

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

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

Contractors must pay subcontractors within a 7 days period.

(07.19)

Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

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

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway,
building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the
responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district
office located nearest to the project. District office locations and phone numbers are listed below.
Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county
basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates.
Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing,
or rental type units intended for residential use.
Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or
locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of
Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

*Contractor Registry (LL 220-I): Effective December 30th, 2024
Labor Law Section 220-i(6) prohibits contractors from bidding on public work and prohibits both contractors and subcontractors from commencing work
on private and public projects subject to prevailing wage requirements. This section requires contractors to submit their Certificate of Registration with
their bid materials. Each Certificate of Registration will have a unique registration number. Failure to provide proof of registration, as required by Labor
Law Section 220-i, as a minimum qualification will result in the bidder being deemed non-responsive. There is a public database of registered contractors and subcontractors available online at data.ny.gov to confirm registration validity. For additional information on how to register and the
requirements, visit https://dol.ny.gov/public-work-contractor-and-subcontractor-registry-landing

*Electronic Certified Payroll (LL 220-K): Effective December 31st, 2025
Effective December 31, 2025, all contractors and subcontractors who perform public work, or covered private work subject to the prevailing wage, will be
required to submit certified payrolls electronically to the Bureau of Public Work and Prevailing Wage Enforcement. Additional information about the
electronic certified payroll submission system will be made available on the Department's Website at https://dol.ny.gov/Electronic-Payroll

Payrolls and Payroll Records

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.

Shift Work

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

Paid Prenatal Leave

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

Apprentice Training Ratios

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

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

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

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

If you have any questions concerning the attached schedule or would like additional information, please contact the nearest BUREAU of PUBLIC WORK District Office or write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12226

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004
Bureau of Public Work - Buffalo	716-847-7159	716-847-7650
Bureau of Public Work - Garden City	516-228-3915	516-794-3518
Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-932-2419	212-775-3579
Bureau of Public Work - Patchogue	631-687-4882	631-687-4902
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Dutchess County General Construction

Boilermaker — 08/01/2025

JOB DESCRIPTION Boilermaker **DISTRICT** 4

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

WAGES

Per Hour:	07/01/2025	01/01/2026
Boilermaker	$ 68.88	$ 70.38
Repairs & Renovations	68.88	70.38

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

SUPPLEMENTAL BENEFITS
Per Hour:

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

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

OVERTIME PAY
See (*B, O, **U) on OVERTIME PAGE
Note:* Includes 9th & 10th hours, double for 11th or more.
** Labor Day ONLY, if worked.

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 12, 15, 25, 26, 29) on HOLIDAY PAGE

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

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

SUPPLEMENTAL BENEFITS:

33.5% of Hourly Wage Paid Plus Amount Below:

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

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

4-5

Broadband — 08/01/2025

JOB DESCRIPTION Broadband **DISTRICT** 4

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

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

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

Per Hour:	07/01/2025	08/04/2025
Field Tech	$ 51.31	$ 52.85

Install/Repair

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

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

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

SUPPLEMENTAL BENEFITS
Per Hour:

$ 23.24

OVERTIME PAY
See (B, K, *R) on OVERTIME PAGE
* Two and one half times the hourly rate after the 8th hour

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

4-CWA-Dist2

Carpenter **08/01/2025**

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Dutchess, Orange

WAGES
Per hour: 07/01/2025

Building:
Millwright $ 47.83
+ 8.44*

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman $ 35.39

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

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

REGISTERED APPRENTICES
Wages per hour:
One (1) year terms:

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

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

Supplemental benefits per hour:

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

8-740.2

Carpenter **08/01/2025**

JOB DESCRIPTION Carpenter **DISTRICT** 8

ENTIRE COUNTIES
Dutchess

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

WAGES
Per hour: 07/01/2025

Carpet/Resilient
Floor Coverer $ 36.78
+ 3.48*

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

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

SUPPLEMENTAL BENEFITS
Per hour:
$ 29.09

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

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

REGISTERED APPRENTICES
Wage per hour - (1) year terms:

1st	2nd	3rd	4th
$17.04 + 2.54*	$20.32 + 2.54*	$25.22 + 2.54*	$30.14 + 2.54*

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

Supplemental Benefits per hour - All apprentice terms:

$ 21.47

8-2287D&O

Carpenter — 08/01/2025

JOB DESCRIPTION Carpenter **DISTRICT** 8

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

WAGES
Per Hour: 07/01/2025

Marine Construction:

Marine Diver $ 76.46
+ 10.16*

Marine Tender $ 56.00
+ 10.16*

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

SUPPLEMENTAL BENEFITS
Per Hour:

Journeyworker $ 46.48

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

HOLIDAY

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

REGISTERED APPRENTICES
Wages per hour:
One (1) year terms.

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

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

Supplemental Benefits
Per Hour:

All terms	$ 33.03

8-1456MC

Carpenter - Building / Heavy&Highway — 08/01/2025

JOB DESCRIPTION Carpenter - Building / Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Columbia, Dutchess, Orange, Sullivan, Ulster

WAGES
WAGES (per hour)

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

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

Applies to Diver (Wet):

Base Wage	$ 50.00
	+ 6.38*

*For all hours paid straight or premium.
**To be allocated at a later date.

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 31.66

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

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

HEAVY&HIGHWAY/TUNNEL:
Paid: See (5, 6, 25) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
- Holidays that fall on Sunday will be observed Monday

- Must be employed during the five (5) work days immediately preceding a holiday or during the five (5) work days following the paid holiday to receive holiday pay
- If Employee is entitled to a paid holiday, the Employee is paid the Holiday wage and supplemental benefits whether they work or not. If Employee works the Holiday, the Employee will receive holiday pay (including supplemental benefits), plus the applicable premium wage for working the Holiday. If Employee works in excess of 8 hours on Holiday, then benefits will be paid for any hours in excess of 8 hours.

REGISTERED APPRENTICES
1 Year terms at the following wage rates.

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

*For all hours paid straight or premium

SUPPLEMENTAL BENEFITS per hour:

All Terms $ 16.81

11-279.2B/H&H

Electrician — 08/01/2025

JOB DESCRIPTION Electrician **DISTRICT** 11

ENTIRE COUNTIES
Orange, Putnam, Rockland

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

WAGES
Per hour:

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

*For all hours paid straight or premium, not to be included in 3% calculation for supplemental benefits.
NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (subject to overtime premiums):
- On jobs where employees are required to work from boatswain chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, or gas masks, they shall receive an additional $2.00 per hour above the regular straight time rate.
- Journeyman Wireman working in Shafts, Tunnels or on Barges: $5.00 above the Journeyman Wireman rate of pay
- Journeyman Wireman when performing welding or cable splicing: $3.00 above the Journeyman Wireman rate of pay
- Journeyman Wireman required to have a NYS Asbestos Certificate: $3.00 above the Journeyman Wireman rate of pay
- Journeyman Wireman required to have a CDL: $3.00 above the Journeyman Wireman rate of pay.

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

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

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025
Journeyman	$ 30.69 plus 3% of straight or premium wage

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE
When the holiday falls on a Saturday it is observed the Friday before. When the holiday falls on a Sunday it is observed on the Monday after.

REGISTERED APPRENTICES
WAGES:
(1)year terms at the following rates

07/01/2025	1st	2nd	3rd	4th	5th	6th
1st Shift	$ 17.00	$ 20.60	$ 25.75	$ 30.90	$ 36.05	$ 38.63
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*

2nd Shift	19.94	24.17	30.22	36.26	42.30	45.32
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*
3rd Shift	22.34	27.08	33.85	40.01	47.38	50.77
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*

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

SUPPLEMENTAL BENEFITS per hour:
07/01/2025

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

11-363/1

Electrician — 08/01/2025

JOB DESCRIPTION Electrician **DISTRICT** 11

ENTIRE COUNTIES
Sullivan, Ulster

PARTIAL COUNTIES
Delaware: Only in the Townships of Andes, Harpersfield, Kortwright,Stamford, Bovina, Roxbury, Middletown and those portions of Colchester and Hancock south of the East Branch of the Delaware River.
Dutchess: All of the county except for the towns of Fishkill,East Fishkill, and Beacon.
Greene: That portion of the county south of a line following the south limits of the city of Catskill in a Westerly direction from the Hudson River to Highway 23A along 23A to the road following the Little Westkill and continuing along this road to Delaware County.

WAGES
Per hour:

Electrician Wireman/ Technician	07/01/2025
Electrical/Technician Projects	
under $ 250,000.00	$ 47.50
	+ 10.00*
over $ 250,000.00	$ 51.50
	+ 10.00*

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

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (subject to overtime premiums):
- On jobs where employees are required to work from boatswain chairs, swinging scaffolds, etc., forty (40) feet or more above the ground, or under compressed air, using Scottair packs, or gas masks, they shall receive an additional $2.00 per hour above the regular straight time rate.
- Journeyman Wireman working in Shafts, Tunnels or on Barges: $5.00 above the Journeyman Wireman rate of pay
- Journeyman Wireman when performing welding or cable splicing: $3.00 above the Journeyman Wireman rate of pay
- Journeyman Wireman required to have a NYS Asbestos Certificate: $3.00 above the Journeyman Wireman rate of pay
- Journeyman Wireman required to have a CDL: $3.00 above the Journeyman Wireman rate of pay.

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

Shift worked between 4:30pm & 12:30am	
Electrical/Technician Projects	
under $ 250,000.00	$ 55.73
	+ 10.00*
over $ 250,000.00	$ 60.43
	+ 10.00*
Shift worked between 12:30am & 8:30am	
Electrical/Technician Projects	
under $ 250,000.00	$ 62.43
	+ 10.00*
over $ 250,000.00	$ 67.69
	+ 10.00*

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025
Journeyman	$ 30.69 plus 3% of straight or premium wage

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 13, 15, 16, 25) on HOLIDAY PAGE
When the holiday falls on a Saturday it is observed the Friday before. When the holiday falls on a Sunday it is observed on the Monday after.

REGISTERED APPRENTICES
WAGES:
(1)year terms at the following rates

07/01/2025	1st	2nd	3rd	4th	5th	6th
1st Shift	$ 17.00	$ 20.60	$ 25.75	$ 30.90	$ 36.05	$ 38.63
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*
2nd Shift	19.94	24.17	30.22	36.26	42.30	45.32
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*
3rd Shift	22.34	27.08	33.85	40.61	47.38	50.77
	+1.00*	+1.00*	+1.00*	+2.00*	+2.50*	+2.50*

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

SUPPLEMENTAL BENEFITS per hour:

07/01/2025	
1st term	$ 16.28 plus 3% of straight or premium wage
2nd term	$ 17.78 plus 3% of straight or premium wage
3rd term	$ 18.78 plus 3% of straight or premium wage
4th term	$ 19.78 plus 3% of straight or premium wage
5th term	$ 21.28 plus 3% of straight or premium wage
6th term	$ 21.28 plus 3% of straight or premium wage

11-363/2

Elevator Constructor — 08/01/2025

JOB DESCRIPTION Elevator Constructor **DISTRICT** 1

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

PARTIAL COUNTIES
Delaware: Towns of Andes, Bovina, Colchester, Davenport, Delhi, Harpersfield, Hemdon, Kortright, Meredith, Middletown, Roxbury, Hancock & Stamford
Rockland: Only the Township of Stony Point.
Westchester: Only the Townships of Bedford, Lewisboro, Cortland, Mt. Kisco, North Salem, Pound Ridge, Somers and Yorktown.

WAGES

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

SUPPLEMENTAL BENEFITS
Per hour

	07/01/2025	01/01/2026
Journeyworker/Helper	$ 38.435*	$ 38.985*

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

OVERTIME PAY
See (D, O) on OVERTIME PAGE

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

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

REGISTERED APPRENTICES

Wages per hour:

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

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

Supplemental Benefits per hour worked:

Same as Journeyperson/Helper

1-138

Glazier — 08/01/2025

JOB DESCRIPTION Glazier **DISTRICT** 8

ENTIRE COUNTIES

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

WAGES

Per hour:

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

*Mechanical equipment, scissor jacks, man lifts, booms & buckets 30' or more, but not pipe scaffolding.
**Repair & Maintenance- All repair & maintenance work on a particular building whenever performed, where the total cumulative Repair & Maintenance contract value is under $193,000.

SUPPLEMENTAL BENEFITS

Per hour:

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

OVERTIME PAY

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

HOLIDAY

Paid: See (5, 6, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE
For 'Repair & Maintenance'
Paid: See(5, 6, 16, 25)
Overtime: See(5, 6, 16, 25)

REGISTERED APPRENTICES

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

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

Supplemental Benefits:
(Per hour)

1st term	$ 19.56	$ 19.80

2nd term	27.85	28.31
3rd term	33.49	34.09
4th term	36.73	37.41

8-1087 (DC9 NYC)

Insulator - Heat & Frost — 08/01/2025

JOB DESCRIPTION Insulator - Heat & Frost **DISTRICT** 8

ENTIRE COUNTIES
Dutchess, Orange, Putnam, Rockland, Westchester

WAGES

Per hour:	07/01/2025
Insulator/Fire Stop Work*	$ 62.42
Discomfort & Additional Training**	65.48

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

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

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

SUPPLEMENTAL BENEFITS

Per hour:	
Insulator/Fire Stop Journeyworker:	$ 38.90
Discomfort & Additional Training:	$ 40.94

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

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

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

REGISTERED APPRENTICES
(1) year terms:

Insulator Apprentices:

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

Discomfort & Additional Training Apprentices:

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

Supplemental Benefits paid per hour:

Insulator Apprentices:

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

Discomfort & Additional Training Apprentices:

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

8-91

Ironworker 08/01/2025

JOB DESCRIPTION Ironworker **DISTRICT** 11

ENTIRE COUNTIES
Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster

WAGES
Per hour:

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

(*) To be allocated at a later date.

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

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

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

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 47.33

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16) on HOLIDAY PAGE
If a holiday falls on Saturday, it will be observed Friday. If a holiday falls on Sunday, it will be observed Monday.

REGISTERED APPRENTICES
Wages:

(1) year terms at the following wage:

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

Supplemental Benefits per hour:

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

11-417

Laborer - Building 08/01/2025

JOB DESCRIPTION Laborer - Building **DISTRICT** 11

ENTIRE COUNTIES
Dutchess

PARTIAL COUNTIES
Columbia: Only the Townships of Greenport, Claverack, Philmont,Clermont, Germantown, Livingston, Hillsdale, Gallatin, Copake, Ancram, Taghkanic and the City of Hudson.

WAGES
ALL WORK RELATED WITH TOXIC OR ANY ASBESTOS OR HAZARDOUS MATERIAL

WAGES: (per hour)

	07/01/2025	06/01/2026 Additional
Class 4	$ 51.45	$ 2.99*

*To be allocated at a later date.

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

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 33.95
Shift	$ 41.29

OVERTIME PAY
See (B, *E, E5, **Q) on OVERTIME PAGE
*For first 8 hours on Saturday
**When an employee is required to work on a holiday which falls on a Sunday the employee shall be paid three (3) times the hourly rate and one (1) hour benefits for every hour worked. When an employee is required to work on a holiday which falls on a Saturday the employee shall be paid two and a half (2.5) times the hourly rate and one hour benefits for every hour worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE
Holidays that fall on Saturday shall be observed on Friday, when holidays fall on Sunday they shall be observed on Monday.

REGISTERED APPRENTICES
(1000) hour terms at the following wages.

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

Supplemental Benefits per hour:

All Terms Regular	$ 30.35
All Terms Shift Rate	36.75

11-17tox B

Laborer - Building — 08/01/2025

JOB DESCRIPTION Laborer - Building **DISTRICT** 8

ENTIRE COUNTIES
Dutchess

PARTIAL COUNTIES
Columbia: Only the Townships of Ancram, Claverack, Clermont, Copake, Gallatin, Germantown, Greenport, Hillsdale, Hudson, Livingston, Philmont and Taconic.

WAGES
GROUP # 1:
All Laborers except those listed in Group 2

GROUP # 2:
Blaster, Laser Beam Oper., Asphalt Rakers, & Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power

WAGES per hour:	07/01/2025
GROUP # 1	$ 41.10*
GROUP # 2	43.45*

*Subtract $ 4.50 to calculate overtime premium

Note: Any job requiring Hazwopper Certification will pay $1.00 above job classification wage rate.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 31.50

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Whenever a holidays falls on Sunday, it will be observed on the following Monday.

REGISTERED APPRENTICES
Wages per hour: 07/01/2025

1000 Hour terms

1st term	$ 29.50
2nd term	34.05
3rd term	38.60
4th term	40.00

Note: Any job requiring Hazwopper Certification will pay $1.00 above job classification wage rate.

Supplemental Benefits per hour:

All terms	$ 24.60

8-235

Laborer - Heavy&Highway 08/01/2025

JOB DESCRIPTION Laborer - Heavy&Highway **DISTRICT** 8

ENTIRE COUNTIES
Dutchess

PARTIAL COUNTIES
Columbia: Only the Townships of Ancram, Claverack, Clermont, Copake,Gallatin, Germantown, Greenport, Hillsdale, Hudson, Livingston, Philmont and Taconic.

WAGES
GROUP I: Blaster, Asphalt Screedman, ACI Certified Flatwork Finisher, Pipe Jacking and Boring Operations, Operator Qualified Dead Condition Pipe Fuser (B Mechanic)

GROUP II: Burner, Drill Operator, Jumbo Driller, Wagon Driller, Air Track Driller, Hydraulic Driller, Self Contained Rotary Drill Operator, Pneumatic Dowel Driller, Concrete Form Aligner, Concrete Form and Curb Form Highway, Concrete Finisher, Asphalt Raker, Pipe Fusion, Wrecking "Bar Person", Operator Qualified Peer Checker.

GROUP III: Asphalt Curb Machine Operator, Jeepers Operator, Pavement Breaker Operator , Power Saw Operator, Jack Hammer Drill, all types Pneumatic Tool and Gasoline Drill, Concrete Saw, Gunning, Railroad, Spike Puller, Sandblasting, Shoring, Pipe Layer, Deck Winches on Scows, Power Buggy and Operator, Power Wheelbarrow Operator, Laser Bean and X-Ray Operator, Pipe Religner, Underpinning, Chain Saw, Tree Cutter, Jack Leg Driller, Hydraulic Rock Splitter, certified, Certified Scaffold Erector, Remote Controlled Demolition Robot, Wrecking "Bar Person" Helper, Utility Per Diem Laborer, Compressed air-lance, Water jet lance

Group IV: General Concrete Laborers - anything pertaining to concrete, aggregate or concrete material handling, Puddlers, Asphalt Worker, Crack Router Operator, Rock Scalers, Vibrator Operator, Bit Grinder, Concrete Grinder, Remote Walk Behind Roller (Wacker, Rammax, etc), Air Tampers and All Tampers not covered by any other classification, Form Pin Pullers, Pumps and their operation, Service of Air Power, Epoxy and Waterproofing Worker, Fine Grade person between forms, Barco Rammer, Guard Rail Installation and Demolition Link Fence, Steel Kings, Wire Mesh, Setting of all Paving Blocks, Brick Paver and Rubber Pavers, Rip Rap and Dry Stone Layer Wall, Stone Work and Pointing, Cement Spray Men, Gabion Basket Assembler, Installation of Noise Barrier, Jersey Barrier and Joints, Pre-Cast Manholes, and Pre -cast and Pre-cast Catch Basins, Crib Retaining Walls

Group V: All Driller Helpers(including Hydraulic Wagon Air Track). Common Laborers, Certified Fire Watch Laborers, All AFL/CIO Trades, Signal Person Truck Spotters, Power Person , Landscaping and Nursery Person, Artificial Turf, Placing Fabric on Landfill, Sign Installer, Temporary and Interim Pavement Line Striping, String Line Automation Grades, Lock Level, Certified Traffic Safety and Control (Pattern)

Group V (A): Flagperson

Group VI: Confined Space Laborer

Group VII: Operator Qualified Gas Mechanic

WAGES per hour	07/01/2025
Group I:	$ 51.40

Group II:	49.99
Group III:	49.58
Group IV:	49.21
Group V:	48.85
Group V(A):	42.25
Group VI:	50.93
Group VII:	61.80

Note: All employees working on a project that requires Hazwopper Certification will receive $1.00 per hour over job classification rate of pay.

SHIFT WORK
Supplemental Benefits: $ 42.15*

*Applies for contracting agency mandated irregular shift work

All employees who work an irregular work day that starts after 9:00 AM on a governmental mandated schedule shall be paid an additional 15% per hour.

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025
Journeyman	$ 31.15

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

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Whenever a holidays falls on Sunday, it will be observed on the following Monday.

REGISTERED APPRENTICES
Wages per hour
1000 hour year terms

1st Term	$ 29.50
2nd Term	34.05
3rd Term	38.60
4th Term	40.00

Note: All employees working on a project that requires Hazwopper Certification will receive $1.00 per hour over job classification rate of pay.

Supplemental Benefits per hour:

All Terms	$ 24.60

8-235h

Laborer - Heavy&Highway 08/01/2025

JOB DESCRIPTION Laborer - Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Dutchess

PARTIAL COUNTIES
Columbia: Only the Townships of Claverack, Clermont, Greenport, Philmont, Germantown,Livingston, Hillsdale, Taghkanic, Gallatin, Copake, Ancram, City of Hudson.

WAGES
ALL WORK RELATED WITH TOXIC OR ANY ASBESTOS OR HAZARDOUS MATERIAL, BIOREMEDIATION AND PHYTO REMEDIATION(Five feet or more outside of building foundation line)

WAGES:(per hour)	07/01/2025	06/01/2026
Class 3	$ 54.00	$ 56.05

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 34.03	$ 35.28
Shift	39.60	41.37

OVERTIME PAY

See (B, E, P, *R, **S, ***T, X) on OVERTIME PAGE
*For Mon-Fri Holidays, Double Benefits to be paid for all hours worked.
**For Saturday Holidays or Friday recognized, Double Benefits for all hours worked.
***For Sunday Holidays or Monday recognized, Double Benefits for all hours worked.

HOLIDAY
Paid: See (5, 6, 15, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE
To be eligible for a paid holiday, an employee must work at least two (2) days in the calendar week or payroll week in which the holiday falls.

REGISTERED APPRENTICES
(1000) hour terms at the following wages.

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

Supplemental Benefits per hour:

All Terms Regular	$ 30.35
All Terms Shift Rate	35.27

11-17tox HH

Laborer - Tunnel — 08/01/2025

JOB DESCRIPTION Laborer - Tunnel **DISTRICT** 11

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

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

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

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

Class 4: Safety Miners

Class 5: Site work related to Shaft/Tunnel

WAGES: (per hour)

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

*To be allocated at a later date

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

SUPPLEMENTAL BENEFITS
Per hour:

Benefit 1	$ 37.88
Benefit 2	54.01
Benefit 3	70.12

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

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

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

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

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

11-17/60/235/754Tun

Lineman Electrician — 08/01/2025

JOB DESCRIPTION Lineman Electrician **DISTRICT** 6

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

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

Crane Operators: Operation of any type of crane on line projects.
Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on line projects.
Digging Machine Operator: All other digging equipment and augering on line projects.

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

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

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

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

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

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

Group A:				
Lineman, Technician	$ 61.56	$ 64.37	$ 66.84	$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47

Cable Splicer	67.72	70.81	73.52	76.42
Certified Welder, Pipe Type Cable	$ 64.64	$ 67.59	$ 70.18	$ 72.94
Group B:				
Digging Mach. Operator	$ 55.40	$ 57.93	$ 60.16	$ 62.52
Group C:				
Tractor Trailer Driver	$ 52.33	$ 54.71	$ 56.81	$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58
Group D:				
Flagger	$ 33.86	$ 35.40	$ 36.76	$ 38.12

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

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

Group A:				
Lineman, Tech, Welder	$ 62.94	$ 65.81	$ 68.34	$ 71.03
Crane, Crawler Backhoe	62.94	65.81	68.34	71.03
Cable Splicer	69.23	72.39	75.17	78.13
Certified Welder, Pipe Type Cable	66.09	69.10	71.76	74.58
Group B:				
Digging Mach. Operator	$ 56.65	$ 59.23	$ 61.51	$ 63.93
Group C:				
Tractor Trailer Driver	$ 53.50	$ 55.94	$ 58.09	$ 60.38
Groundman, Truck Driver	50.35	52.65	54.67	56.82
Equipment Mechanic	50.35	52.65	54.67	56.82
Group D:				
Flagger	$ 34.62	$ 36.20	$ 37.59	$ 39.07

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

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

Group A:				
Lineman, Tech, Welder	$ 64.18	$ 67.10	$ 69.68	$ 72.43
Crane, Crawler Backhoe	64.18	67.10	69.68	72.43
Group B:				
Digging Mach. Operator	$ 57.76	$ 60.39	$ 62.71	$ 65.19
Group C:				
Tractor Trailer Driver	$ 54.55	$ 57.04	$ 59.23	$ 61.57
Groundman, Truck Driver	51.34	53.68	55.74	57.94
Equipment Mechanic	51.34	53.68	55.74	57.94
Group D:				
Flagger	$ 35.30	$ 36.91	$ 38.32	$ 39.84

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

SHIFT WORK

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

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

SUPPLEMENTAL BENEFITS

Per hour:

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

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

OVERTIME PAY

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

HOLIDAY

Paid See (5, 6, 8, 15, 25) on HOLIDAY PAGE
Overtime See (5, 6, 8, 15, 25) on HOLIDAY PAGE
NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES

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

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

SUPPLEMENTAL BENEFITS per hour:

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

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

6-1249a

Lineman Electrician - Teledata — 08/01/2025

JOB DESCRIPTION Lineman Electrician - Teledata **DISTRICT** 6

ENTIRE COUNTIES

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

WAGES

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

Per hour:	07/01/2025
Cable Splicer	$ 40.81
Installer, Repairman	$ 38.73
Teledata Lineman	$ 38.73
Tech., Equip. Operator	$ 38.73
Groundman/Flagger	$ 20.53

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

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

SHIFT WORK

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

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

SUPPLEMENTAL BENEFITS

Per hour:

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

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

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

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

6-1249LT - Teledata

Lineman Electrician - Traffic Signal, Lighting — 08/01/2025

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

ENTIRE COUNTIES
Columbia, Dutchess, Orange, Putnam, Rockland, Ulster

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

Crane Operators: Operation of any type of crane on Traffic Signal/Lighting projects.
Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on Traffic Signal/Lighting projects.
Digging Machine Operator: All other digging equipment and augering on Traffic Signal/Lighting projects.

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

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

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

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

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

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

SUPPLEMENTAL BENEFITS
Per hour worked:

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

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

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

HOLIDAY
Paid: See (5, 6, 8, 15, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 25) on HOLIDAY PAGE
NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

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

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

SUPPLEMENTAL BENEFITS per hour:

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

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

6-1249aReg8LT

Lineman Electrician - Tree Trimmer — 08/01/2025

JOB DESCRIPTION Lineman Electrician - Tree Trimmer **DISTRICT** 6

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

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

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

SUPPLEMENTAL BENEFITS
Per hour:

	07/01/2025	01/04/2026	01/03/2027
Journeyworker	$ 10.98*	$ 11.23*	$ 11.48*

* Plus 4.5% of the hourly wage paid. The 4.5% is based on straight time rate or premium rate.

OVERTIME PAY
See (B, E, Q, X) on OVERTIME PAGE
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE
NOTE: All paid holidays falling on a Saturday shall be observed on the preceding Friday. All paid holidays falling on a Sunday shall be observed on the following Monday.

6-1249TT

Mason - Building — 08/01/2025

JOB DESCRIPTION Mason - Building **DISTRICT** 9

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

WAGES
Per Hour:

	07/01/2025	07/07/2025	01/05/2026 Additional
Marble Cutters & Setters	$ 64.21	$ 64.66	$ 0.75

SUPPLEMENTAL BENEFITS
Per Hour:

Journeyworker	$ 40.51	$ 40.82

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

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

REGISTERED APPRENTICES
Wage Per Hour:

750 hour terms at the following wage

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

Supplemental Benefits per hour:

	1st	2nd	3rd	4th	5th	6th	7th	8th
07/01/2025	$26.88	$30.14	$30.95	$31.78	$32.59	$38.07	$39.71	$40.51
07/07/2025	$26.95	$30.02	$30.78	$31.55	$32.32	$38.53	$40.82	$40.82

9-7/4

Mason - Building — 08/01/2025

JOB DESCRIPTION Mason - Building **DISTRICT** 11

ENTIRE COUNTIES
Dutchess, Sullivan, Ulster

PARTIAL COUNTIES
Orange: Entire county except the Township of Tuxedo.

WAGES
Per hour:

	07/01/2025
Bricklayer	$ 47.96
Cement Mason	47.96
Plasterer/Stone Mason	47.96
Pointer/Caulker	47.96

Additional $1.00 per hour for power saw work
Additional $0.50 per hour for swing scaffold or staging work

SHIFT WORK
SHIFT WORK: When shift work or an irregular workday is mandated or required by state, federal, county, local or other governmental agency contracts, the following premiums apply:
Irregular workday requires 15% premium
Second shift an additional 15% of wage plus benefits to be paid
Third shift an additional 25% of wage plus benefits to be paid

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 38.61

OVERTIME PAY

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

HOLIDAY

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

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

REGISTERED APPRENTICES
Wages per hour:

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

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

Supplemental Benefits per hour

750 hour terms at the following percentage of journeyman supplements

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

11-5du-b

Mason - Building — 08/01/2025

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Dutchess, Orange, Putnam, Sullivan, Ulster

WAGES
Per hour:

	07/01/2025	12/01/2025 Additional	06/01/2026 Additional
Tile, Marble,& Terrazzo Mechanic/Setter	$ 58.52	$ 0.90	$ 1.12

SUPPLEMENTAL BENEFITS
Per Hour:

Journeyworker:	$ 26.16*
	+6.16

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

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
Double time rate applies after 10 hours

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

REGISTERED APPRENTICES
Wage per hour:
(Counties of Orange & Putnam)
750 hour terms at the following wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1-750	751-1500	1501-2250	2251-3000	3001-3750	3751-4500	4501-5250	5251-6000	6001-6750	6751-7500
07/01/2025									
$22.32	$27.46	$34.56	$39.66	$43.35	$46.96	50.69	$55.79	$58.36	$65.03

Supplemental Benefits per hour:
(Counties of Orange & Putnam)

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
07/01/2025									
$13.00* + 0.76	$13.00* + 0.81	$16.11* + 0.92	$16.11* + 0.97	$17.11* + 1.44	$18.61* + 1.49	$19.61* + 1.92	$19.61* + 1.97	$19.61* + 4.57	$29.61* + 8.53

Wages per hour:
(Counties of Dutchess, Sullivan, Ulster)

750 hour terms at the following wage rate:

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

Supplemental Benefits per hour:
(Counties of Dutchess, Sullivan, Ulster)

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
07/01/2025									
$14.00* + 0.76	$14.00* + 0.81	$16.61* + 0.85	$16.61* + 0.90	$17.61* + 1.36	$18.11* + 1.41	$18.61* + 1.83	$19.61* + 1.88	$19.61* + 4.94	$24.36* + 5.03

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

9-7/52B

Mason - Building — 08/01/2025

JOB DESCRIPTION Mason - Building **DISTRICT** 9

ENTIRE COUNTIES
Dutchess, Orange, Putnam, Sullivan, Ulster

WAGES

Per hour:	07/01/2025	12/01/2025	06/01/2026
Building		Additional	Additional
Tile, Marble, & Terrazzo Finisher	$ 48.18	$ 0.77*	$ 0.95*

*To be allocated at a later date.

SUPPLEMENTAL BENEFITS
Journeyworker:

Per Hour $ 22.96*

+ 6.02

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

OVERTIME PAY
See (A, *E, Q) on OVERTIME PAGE
Double time rate applies after 10 hours on Saturdays.

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

9-7/88B-tf

Mason - Heavy&Highway 08/01/2025

JOB DESCRIPTION Mason - Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Dutchess, Sullivan, Ulster

PARTIAL COUNTIES
Orange: Entire county except the Township of Tuxedo.

WAGES
Per hour:

	07/01/2025
Bricklayer	$ 48.46
Cement Mason	48.46
Marble/Stone Mason	48.46
Plasterer	48.46
Pointer/Caulker	48.46

Additional $1.00 per hour for power saw work
Additional $0.50 per hour for swing scaffold or staging work

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

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

SUPPLEMENTAL BENEFITS
Per hour:
Journeyman $ 38.61

OVERTIME PAY
Cement Mason See (B, E, Q, W)
All Others See (B, E, Q)

HOLIDAY
Paid: See (5, 6, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 16, 25) on HOLIDAY PAGE
- Whenever any of the above holidays fall on Sunday, they will be observed on Monday. Whenever any of the above holidays fall on Saturday, they will be observed on Friday.
- Supplemental Benefits are not paid for paid Holiday
- If Holiday is worked, Supplemental Benefits are paid for hours worked.
- Whenever an Employee works within three (3) calendar days before a holiday, the Employee shall be paid for the Holiday.

REGISTERED APPRENTICES
Wages per hour:

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

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

Supplemental Benefits per hour

750 hour terms at the following percentage of journeyman supplements

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

11-5du-H/H

Operating Engineer - Building — 08/01/2025

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 9

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

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

WAGES
NOTE: Construction surveying
Party Chief--One who directs a survey party
Instrument Man--One who runs the instrument and assists Party Chief.
Rodman--One who holds the rod and assists the Survey Crew

Wages:(Per Hour)	07/01/2025
Building Construction:	
Party Chief	$ 81.94
Instrument Man	60.49
Rodman	40.63
Steel Erection:	
Party Chief	$ 84.04
Instrument Man	63.19
Rodman	43.31
Heavy Construction-NYC counties only: (Foundation, Excavation.)	
Party Chief	$ 88.97
Instrument man	66.04
Rodman	55.85

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2025
Building Construction	$ 29.45* + 7.65
Steel Erection	31.25* + 7.65
Heavy Construction	32.06* + 7.64

* This portion subject to SAME premium as wages

Non-Worked Holiday Supplemental Benefit:
$ 22.48

OVERTIME PAY
See (A, B, E, Q) on OVERTIME PAGE
Code "A" applies to Building Construction and has double the rate after 7 hours on Saturdays.
Code "B" applies to Heavy Construction and Steel Erection and has double the rate after 8 hours on Saturdays.

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

9-15Db

Operating Engineer - Building — 08/01/2025

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 8

ENTIRE COUNTIES
Putnam, Westchester

PARTIAL COUNTIES

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

WAGES

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

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

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

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

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

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

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

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

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

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

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

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

WAGES: (per hour)

	07/01/2025	03/02/2026
GROUP I		
Cranes- up to 49 tons	$ 69.25	$ 71.19
Cranes- 50 tons to 99 tons	71.67	73.69
Cranes- 100 tons and over	81.89	84.27
GROUP I-A	60.56	62.20
GROUP I-B	55.77	57.24
GROUP II	58.42	59.98
GROUP III-A	56.26	57.75
GROUP III-B	53.54	54.93
GROUP IV-A	55.69	57.16
GROUP IV-B	47.01	48.17

GROUP V	50.72	52.01
Group VI-A	59.54	61.05
GROUP VI-B		
Utility Man	48.10	49.30
Warehouse Man	50.44	51.72

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	$ 32.92	34.52

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

HOLIDAY
Paid: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 25, 26, 28) on HOLIDAY PAGE

8-137B

Operating Engineer - Building — 08/01/2025

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

PARTIAL COUNTIES
Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedell Road then east along Bedell Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 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 Connecticut.

WAGES
NOTE:
-- In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.
-- If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C

CLASS A1*: All cranes that require A NYS crane license, tower cranes**(including self erecting), hydraulic cranes, locomotive crane, piledriver, cableway, derricks, whirlies, dragline, boom trucks, cherry pickers, overhead cranes (gantry or saddle type), truck cranes

CLASS A:
Shovel, Excavators 18,001 lbs. and above(including rubber tire full swing), Gradalls, power road grader, all CMI equipment, front-end rubber tire loader, tractor-mounted drill (quarry master), mucking machine, concrete central mix plant, concrete pump, belcrete system, automated asphalt concrete plant, and tractor road paver, boom trucks 5 tons and under, maintenance engineer, self-contained crawler drill-hydraulic rock drill, Profiler/Milling machine.

CLASS B:
Excavators 18,000 lbs. and under, Backhoes (rubber tired backhoe/loader combination), bulldozer, pushcat, tractor, traxcavator, scraper, LeTourneau grader, form fine grader, self-propelled soil compactor (fill roller), asphalt roller, blacktop spreader, power brooms, sweepers, trenching machine, Barber Green loader, side booms, hydro hammer, concrete spreader, concrete finishing machine, one drum hoist, power hoisting (single drum), hoist two drum or more, three drum engine, power hoisting (two drum and over), two drum and swinging engine, three drum swinging engine, hod hoist, A-L frame winches, core and well drillers (one drum), post hole digger, model CHB Vibro-Tamp or similar machine, batch bin and plant operator, dinky locomotive, skid steer loader, track excavator 5/8 cubic yard or smaller, front end rubber tired loader under four cubic yards, vacum machine (mounted or towed).

CLASS C:
Fork lift, high lift, all terrain fork lift: or similar, oiler, fireman and heavy-duty greaser, boilers and steam generators, pump, vibrator, motor mixer, air compressor, dust collector, welding machine, well point, mechanical heater, generators, temporary light plants, electric submersible pumps 4" and over, murphy type diesel generator, conveyor, elevators, concrete mixer, beltcrete power pack (belcrete system), seeding, and mulching machines, pumps, rotating telehandler (that does not require NYS crane license).

WAGES per hour

	07/01/2025
Class A1*	$ 55.42

Class A	$ 54.93
Class B	$ 53.91
Class C	$ 51.01

(*) TONNAGE RATING PREMIUMS:
Note: Additional value subject to same premiums as shown for OT
All cranes 1000 tons and over, A1 rate plus $7.00
All cranes 800-999 tons, A1 rate plus $6.00
All cranes 600-799 tons, A1 rate plus $5.00
All cranes 400-599 tons, A1 rate plus $4.00
All cranes 200-399 tons, A1 rate plus $3.00
All cranes 111-199 tons, A1 rate plus $2.25
All cranes 110 tons and under, A1 rate only

(**)Additional $0.50 per hr on A1 rate for Tower Cranes (no tonnage premiums apply)
Additional $2.50 per hr over B rate for Nuclear Leader work.
Additional $2.50 per hour if work requires Personal Protective Equipment for hazardous waste site activities with a level C or over rating.

SUPPLEMENTAL BENEFITS
Per hour

	07/01/2025
Journeyworker	$ 33.50

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: All hours worked on designated holidays shall be paid a double the hourly rate of pay plus 8 hours of straight time.
NOTE: If a holiday falls on Sunday, it will be celebrated on Monday. If the holiday falls on Saturday, it will be celebrated on Friday.

REGISTERED APPRENTICES
Wages per hour

1000 hours terms at the following percentage of Journeyworker's wage Class B

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

Supplemental Benefits per hour worked

	07/01/2025
All terms	$ 28.80

1-158 Alb

Operating Engineer - Building — 08/01/2025

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 1

ENTIRE COUNTIES
Broome, Chenango, Tioga

PARTIAL COUNTIES
Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedell Road then east along Bedell Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 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 Connecticut.

WAGES
NOTE:
--In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.
--If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C

CLASS A1*: All cranes that require NYS crane license, tower cranes**(including self erecting), hydraulic cranes, locomotive crane, piledriver, cableway, derricks, whirlies, dragline, boom trucks, cherry pickers, overhead cranes (gantry or saddle type), truck cranes

CLASS A:

Shovel, Excavators 18,001 lbs. and above(including rubber tire full swing), Gradalls, power road grader, all CMI equipment, front-end rubber tire loader, tractor-mounted drill (quarry master), mucking machine, concrete central mix plant, concrete pump, belcrete system, automated asphalt concrete plant, and tractor road paver, boom trucks 5 tons and under, maintenance engineer, self-contained crawler drill-hydraulic rock drill, Profiler/Milling machine.

CLASS B:
Excavators 18,000 lbs. and under, Backhoes (rubber tired backhoe/loader combination), bulldozer, pushcat, tractor, traxcavator, scraper, LeTourneau grader, form fine grader, self-propelled soil compactor (fill roller), asphalt roller, blacktop spreader, power brooms, sweepers, trenching machine, Barber Green loader, side booms, hydro hammer, concrete spreader, concrete finishing machine, one drum hoist, power hoisting (single drum), hoist two drum or more, three drum engine, power hoisting (two drum and over), two drum and swinging engine, three drum swinging engine, hod hoist, A-L frame winches, core and well drillers (one drum), post hole digger, model CHB Vibro-Tamp or similar machine, batch bin and plant operator, dinky locomotive, skid steer loader, track excavator 5/8 cubic yard or smaller, front end rubber tired loader under four cubic yards, vacum machine (mounted or towed).

CLASS C:
Fork lift, high lift, all terrain fork lift: or similar, oiler, fireman and heavy-duty greaser, boilers and steam generators, pump, vibrator, motor mixer, air compressor, dust collector, welding machine, well point, mechanical heater, generators, temporary light plants, electric submersible pumps 4" and over, murphy type diesel generator, conveyor, elevators, concrete mixer, beltcrete power pack (belcrete system), seeding, and mulching machines, pumps, rotating telehandler (that does not require NYS crane license).

WAGES per hour

	07/01/2025
Class A1*	$ 51.71
Class A	$ 49.31
Class B	$ 48.85
Class C	$ 46.54

(*) TONNAGE RATING PREMIUMS:
Note: Additional value subject to same premiums as shown for OT
All cranes 1000 tons and over, A1 rate plus $7.00
All cranes 800-999 tons, A1 rate plus $6.00
All cranes 600-799 tons, A1 rate plus $5.00
All cranes 400-599 tons, A1 rate plus $4.00
All cranes 200-399 tons, A1 rate plus $3.00
All cranes 111-199 tons, A1 rate plus $2.25
All cranes 110 tons and under, A1 rate only

(**)Additional $0.50 per hr over A1 rate for Tower Cranes (no tonnage premium applies)
Additional $2.50 per hr over B rate for Nuclear Leader work.
Additional $2.50 per hour if work requires Personal Protective Equipment for hazardous waste site activities with a level C or over rating.

SUPPLEMENTAL BENEFITS
Per hour

	07/01/2025
Journeyworker	$ 32.95

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: All hours worked on designated holidays shall be paid a double the hourly rate of pay plus 8 hours of straight time.
NOTE: If a holiday falls on Sunday, it will be celebrated on Monday. If the holiday falls on Saturday, it will be celebrated on Friday.

REGISTERED APPRENTICES
Wages per hour

1000 hours terms at the following percentage of Journeyworker's wage Class B:

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

Supplemental Benefits per hour worked

	07/01/2025
All terms	$ 28.35

1-158 BCT

Operating Engineer - Heavy&Highway 08/01/2025

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 8

ENTIRE COUNTIES
Putnam, Westchester

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

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

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

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

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

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

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

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

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

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

WAGES: Per hour:	07/01/2025	03/02/2026
Group I	$ 70.57	$ 72.77
Group I-A	62.07	63.97
Group I-B	65.47	67.49
Group II-A	59.40	61.21
Group II-B	61.30	63.17
Group III	58.34	60.12
Group IV	52.91	54.49
Group IV-B	45.28	46.59
Group V		
Engineer All Tower, Climbing and Cranes of 100 Tons	80.08	82.61
Hoist Engineer(Steel)	72.41	74.67
Engineer(Pile Driver)	77.30	79.73
Jersey Spreader, Pavement Breaker (Air Ram)Post Hole Digger	60.80	62.66

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.

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker:	$ 36.48 up to 40 Hours	$ 38.08 up to 40 hours
	After 40 hours $ 26.58* PLUS $ 1.40 on all hours worked	After 40 hours $ 27.63* PLUS $ 1.45 on all hours worked

*This amount is subject to premium

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

HOLIDAY
Paid: See (5, 6, 8, 15, 25, 26, 28) on HOLIDAY PAGE
Overtime..... See (5, 6, 8, 15, 25, 26) on OVERTIME PAGE

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

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

REGISTERED APPRENTICES
(1)year terms at the following rate.

1st term	$ 37.24	$ 38.38
2nd term	43.45	44.78
3rd term	49.66	51.18
4th term	55.86	57.57

Supplemental Benefits per hour:

	$ 27.98	$ 29.08

8-137HH

Operating Engineer - Heavy&Highway — 08/01/2025

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 1

ENTIRE COUNTIES
Albany, Broome, Chenango, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Tioga, Warren, Washington

PARTIAL COUNTIES
Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedell Road then east along Bedell Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 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 Connecticut.

WAGES
NOTE:
--- In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.
--- If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C

CLASSIFICATION A1*: All Cranes that require a NYS Crane License; tower cranes(including self erecting)**, hydraulic cranes, locomotive crane, piledriver, cableway, derricks, whirlies, dragline, boom trucks, cherry pickers, overhead cranes (gantry or saddle type), truck cranes

CLASSIFICATION A:

Asphalt Curb Machine (Self Propelled, Slipform), Asphalt Paver, Automated Concrete Spreader (CMI Type), Automatic Fine Grader, Backhoe (Except Tractor Mounted, Rubber Tired), Backhoe Excavator Full Swing (CAT 212 or similar type), Back Filling Machine, Belt Placer (CMI Type), Blacktop Plant (Automated), Blacktop Roller, Boom truck, GPS operated Bull Dozer, Cableway, Caisson Auger, Central Mix Concrete Plant (Automated), Concrete Curb Machine (Self Propelled, Slipform), Concrete Pump, Crane, Cherry Picker, Derricks (steel erection), Dragline, Overhead Crane (Gantry or Straddle type), Pile Driver, Truck Crane, Directional Drilling Machine, Dredge, Dual Drum Paver, Excavator (All Purpose Hydraulically Operated) (Gradall or Similar), Front End Loader (4 cu. yd. and Over), Head Tower (Sauerman or Equal), Hoist (Two or Three Drum), Holland Loader, Maintenance Engineer, Mine Hoist, Mucking Machine or Mole, PB-4 and similar type, Power Grader, Profiler/Milling Machine (over 105 H.P.), Quad 9, Quarry Master (or equivalent), Rotating Telehandler, Scraper (Including Challenger Type), Shovel, Side Boom, Slip Form Paver (If a second man is needed, he shall be an Oiler), Tractor Drawn BeltType Loader, Truck or Trailer Mounted Log Chipper (Self Feeder), Tug Operator (Manned Rented Equipment Excluded), Tunnel Shovel

CLASSIFICATION B:
Backhoe (Tractor Mounted, Rubber Tired), Bituminous Recycler Machine, Bituminous Spreader and Mixer, Blacktop Plant (Non-Automated), Blast or Rotary Drill (Truck or Tractor Mounted), Brokk, Boring Machine, Cage Hoist, Central Mix Plant [(Non-Automated) and All Concrete Batching Plants], Concrete Paver (Over 16S), Crawler Drill (Self-contained), Crusher, Diesel Power Unit, Drill Rigs, Tractor Mounted, Front End Loader (Under 4 cu. yd.), Greaseman/Lubrication Engineer, Hi Pressure Boiler (15 lbs. and over), Hoist (One Drum), Hydro-Axe, Kolman Plant Loader and Similar Type Loaders (If Employer requires another man to clean the screen or to maintain the equipment, he shall be an Oiler), L.C.M. Work Boat Operator, Locomotive, Material handling knuckle boom, Mini Excavator (under 18,000 lbs.), Mixer (for stabilized base self-propelled), Monorail Machine, Plant Engineer, Prentice Loader, Profiler/Milling Machine (105 H.P. and under), Pug Mill, Pump Crete, Ready Mix Concrete Plant, Refrigeration Equipment (for soil stabilization), Road Widener, Roller (all above subgrade), Sea Mule, Self-contained Ride-on Rock Drill(Excluding Air-Track Type Drill), Skidder, Tractor with Dozer and/or Pusher, Trencher, Tugger Hoist, Vacum machine (mounted or towed), Vermeer saw (ride on, any size or type), Welder, Winch, Winch Cat

CLASSIFICATION C:
A Frame Winch Hoist on Truck, Articulated Heavy Hauler, Aggregate Plant, Asphalt or Concrete Grooving Machine (ride on), Ballast Regulator(Ride-on), Boiler (used in conjunction with production), Bituminous Heater (self-propelled), Boat (powered), Cement and Bin Operator, Concrete Pavement Spreader and Finisher Concrete Paver or Mixer (16' and under), Concrete Saw (self-propelled), Conveyor, Deck Hand, Directional Drill Machine Locator, Drill (Core and Well), Farm Tractor with accessories, Fine Grade Machine, Fireman, Fork Lift, Form Tamper, Grout Pump, Gunite Machine, Hammers (Hydraulic self-propelled), Hydra-Spiker (ride-on), Hydraulic Pump (jacking system), Hydro-Blaster (Water), Mulching Machine, Oiler, Parapet Concrete or Pavement Grinder, Post Hole Digger and Post Driver, Power Broom (towed), Power Heaterman, Power Sweeper, Revinius Widener, Roller (Grade and Fill), Scarifier (ride-on), Shell Winder, Skid steer loader (Bobcat or similar; including all attachments), Span-Saw (ride-on), Steam Cleaner, Tamper (ride-on), Tie Extractor (ride-on), Tie Handler (ride-on), Tie Inserter (ride-on), Tie Spacer (ride-on), Tire Repair, Track Liner (ride-on), Tractor, Tractor (with towed accessories), Vibratory Compactor, Vibro Tamp, Well Point, and the following hands-off equipment: Compressors, Dust Collectors, Generators, Pumps, Welding Machines, Light Plants and Heaters

WAGES per hour

	07/01/2025
Class A1*	$ 60.30
Class A	57.30
Class B	56.39
Class C	53.82

(*) TONNAGE RATING PREMIUMS:
Cranes over 1000 tons, A1 rate plus $7.00
Cranes from 800-999 tons, A1 rate plus $6.00
Cranes from 600-799 tons, A1 rate plus $5.00
Cranes from 400-599 tons, A1 rate plus $4.00
Cranes from 200-399 tons, A1 rate plus $3.00
Cranes from 111-199 tons, A1 rate plus $2.00
Cranes from 65-110 tons, A1 rate plus $1.50
Cranes from 0-64 Tons, A1 rate only
NOTE: Additional value subject to same premiums as shown for OT

(**) Tower Cranes, A1 rate plus $3.00 (no tonnage premiums apply)
-- Cranes in Luffer Configuration, A1 rate plus $5.00
-- Cranes with external ballast (tray or wagon), A1 rate plus $5.00
NOTE: Additional value subject to same premiums as shown for OT

Additional $2.50 per hr. for hazardous waste removal work on State and/or Federally designated waste site which require employees to wear Level C or above forms of personal protection.

SHIFT WORK
Additional $2.50 per hour for All Employees who work a single irregular work shift, of at least 5 consecutive days, starting from 5:00 PM to 1:00 AM that is mandated by the Contracting Agency.

SUPPLEMENTAL BENEFITS
Per hour

	07/01/2025
Journeyworker	$ 33.70

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

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If the holiday falls on Sunday, it will be observed on Monday. If the observed Monday Holiday is worked, pay shall be double time plus Holiday pay for time worked. If the Holiday falls on a Saturday and is worked pay shall be double time plus Holiday pay for time worked. If the Holiday falls on a Saturday employer can choose to observe the paid holiday Saturday or give Friday off with holiday pay.

REGISTERED APPRENTICES
Wages per hour

1000 hours terms at the following percentage of Journeyworker's wage Class B

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

Supplemental Benefits per hour worked

	07/01/2025
All Terms	$ 28.30

1-158H/H Alb

Operating Engineer - Heavy&Highway — 08/01/2025

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 9

ENTIRE COUNTIES
Putnam, Westchester

PARTIAL COUNTIES
Dutchess: South of the North city line of Poughkeepsie

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

Per Hour:	07/01/2025
Party Chief	$ 85.77
Instrument Man	63.48
Rodman	53.53

SUPPLEMENTAL BENEFITS
Per Hour: 07/01/2025

All Categories
Straight Time: $ 32.06* + $7.64

Premium:
Time & 1/2 $ 48.09* + $7.64

Double Time $ 64.12* + $7.64

*This portion is subject to the SAME premium as wages.

Non-Worked Holiday Supplemental Benefits:
$ 22.47

OVERTIME PAY
See (B, *E, Q) on OVERTIME PAGE
* Doubletime paid on all hours in excess of 8 hours on Saturday

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

9-15Dh

Operating Engineer - Heavy&Highway - Tunnel 08/01/2025

JOB DESCRIPTION Operating Engineer - Heavy&Highway - Tunnel **DISTRICT** 8

ENTIRE COUNTIES
Putnam, Westchester

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

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

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

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

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

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

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

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

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

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

WAGES: (per hour)

	07/01/2025	03/02/2026
GROUP I	$ 70.57	$ 72.77
GROUP I-A	62.07	63.97
GROUP I-B	65.47	67.49
GROUP II-A	59.40	61.21
GROUP II-B	61.30	63.17
GROUP III	58.34	60.12
GROUP IV-A	52.91	54.49
GROUP IV-B	45.28	46.59
GROUP V-A Engineer-Cranes	80.08	82.61

Engineer-Pile Driver	77.30	79.73
Hoist Engineer	72.41	74.67
Jersey Spreader/Post Hole Digger	60.80	62.66

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.

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

SUPPLEMENTAL BENEFITS
Per hour:
Journeyworker:

$ 36.48 up to 40 hours After 40 hours $26.58 plus $1.40 on all hours worked	$ 38.08 up to 40 hours After 40 hours $27.63 plus $1.45 on all hours worked

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

HOLIDAY
Paid: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 25, 26) on HOLIDAY PAGE
* Note: For Holiday codes 5 & 6, code U applies.
For Holiday codes 8, 15, 25, 26, code R applies.
Note: If employees are required to work on Easter Sunday, they shall be paid at the rate of triple time.

REGISTERED APPRENTICES
(1)year terms at the following rates:

1st term	$ 37.24	$ 38.38
2nd term	43.45	44.78
3rd term	49.66	51.18
4th term	55.86	57.57
Supplemental Benefits per hour:		
All terms	$ 27.98	$ 29.08

8-137Tun

Operating Engineer - Marine Dredging — 08/01/2025

JOB DESCRIPTION Operating Engineer - Marine Dredging **DISTRICT** 4

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

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

Per Hour:	07/01/2025	10/01/2025
CLASS A1 Deck Captain, Leverman, Mechanical Dredge Operator, Licensed Tug Operator with MOTV	$ 47.07	$ 48.48

CLASS A2 Crane Operator (360 swing)	41.94	43.20
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 I/II, Fill Placer, Engineer, Chief Mate, Electrician,Chief Welder,Maintenance Engineer, Licensed Boat, Crew Boat Operator	40.71	41.93
CLASS B2 Certified Welder	38.31	39.46
CLASS C1 Drag Barge Operator, Steward, Mate, Assistant Fill Placer	37.26	38.38
CLASS C2 Boat Operator	36.07	37.15
CLASS D Shoreman, Deckhand, Oiler, Rodman, Scowman, Cook, Messman, Porter/Janitor	29.96	30.86

SUPPLEMENTAL BENEFITS
Per Hour:
THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

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

Additional $0.63 per hour for Overtime hours

OVERTIME PAY
See (B2, F, R) on OVERTIME PAGE

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

4-25a-MarDredge

Operating Engineer - Survey Crew — 08/01/2025

JOB DESCRIPTION Operating Engineer - Survey Crew **DISTRICT** 12

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: The northern portion of the county from the northern boundary line of the City of Poughkeepsie, north.
Genesee: Only the portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia.

WAGES
These rates apply to Building, Tunnel and Heavy Highway.

Per hour:
SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.
Instrument Person - One who operates the surveying instruments.
Rod Person - One who holds the rods and assists the Instrument Person.

	07/01/2025
Party Chief	$ 52.91

Instrument Person	48.67
Rod Person	36.29

Additional $3.00/hr. for Tunnel Work
Additional $2.50/hr. for Hazardous Work Site

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman	$ 30.10

OVERTIME PAY
See (B, E, P, *X) on OVERTIME PAGE
*Note: $25.10/Hr. Only for "ALL" premium hours paid when worked.

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

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

	07/01/2025
0-1000	60%
1001-2000	70%
2001-3000	80%

SUPPLEMENTAL BENEFIT per hour worked:

0-1000	$ 21.88 / PHP $18.03
1001-2000	24.90 / " 20.45
2001-3000	27.93/ " 22.93

NOTE: PHP is premium hours paid when worked.

12-158-545 D.H.H.

Operating Engineer - Survey Crew - Consulting Engineer — 08/01/2025

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer **DISTRICT** 12

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: The northern portion of the county from the northern boundary line of the City of Poughkeepsie, north.
Genesee: Only the portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia.

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

Per hour:
SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.
Instrument Person - One who operates the surveying instruments.
Rod Person - One who holds the rods and assists the Instrument Person.

	07/01/2025
Party Chief	$ 52.91
Instrument Person	48.67
Rod Person	36.29

Additional $3.00/hr. for Tunnel Work.
Additional $2.50/hr. for EPA or DEC certified toxic or hazardous waste work.

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman	$ 30.10

OVERTIME PAY
See (B, E, Q, *X) on OVERTIME PAGE
*Note: $25.10/Hr. Only for "ALL" premium hours paid when worked.

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

REGISTERED APPRENTICES
WAGES: 1000 hour terms based on percentage of Rod Persons Wage:

	07/01/2025
0-1000	60%
1001-2000	70%
2001-3000	80%

SUPPLEMENTAL BENEFIT per hour worked:

0-1000	$ 21.88 / PHP $18.03
1001-2000	$ 24.90 / " 20.45
2001-3000	$ 27.93 / " 22.93

NOTE: PHP is premium hours paid when worked.

12-158-545 DCE

Operating Engineer - Survey Crew - Consulting Engineer — 08/01/2025

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

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

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

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

Per hour:	07/01/2025
Survey Classifications	
Party Chief	$ 51.16
Instrument Man	42.44
Rodman	36.92

SUPPLEMENTAL BENEFITS
Per Hour:

All Crew Members:	$ 24.53

OVERTIME PAY
OVERTIME:.... See (B, E*, Q, V) ON OVERTIME PAGE.
*Double-time paid on the 9th hour on Saturday.

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

9-15dconsult

Operating Engineer - Tunnel — 08/01/2025

JOB DESCRIPTION Operating Engineer - Tunnel **DISTRICT** 7

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: Northern part of Dutchess, to the northern boundary line of the City of Poughkeepie, then due east to Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44 east to Rte. 343, then along Rte. 343 east to the northern boundary of the Town of Dover Plains and east along the northern boundary of the Town of Dover Plains, to the borderline of the State of Connecticut.
Genesee: Only that portion of the county that lies east of a line drawn down the center of Route 98 and the entirety of the City of Batavia.

WAGES

CLASS A: Automatic Concrete Spreader (CMI Type); Automatic Fine Grader; Backhoe (except tractor mounted, rubber tired); Belt Placer (CMI Type); Blacktop Plant (automated); Cableway; Caisson Auger; Central Mix Concrete Plant (automated); Concrete Curb Machine (self-propelled slipform); Concrete Pump (8" or over); Dredge; Dual Drum Paver; Excavator; Front End Loader (4 cu. yd & over); Gradall; Head Tower (Sauerman or Equal); Hoist (shaft); Hoist (two or three Drum); Log Chipper/Loader (self-feeder); Maintenance Engineer (shaft and tunnel); any Mechanical Shaft Drill; Mine Hoist; Mining Machine(Mole and similar types); Mucking Machine or Mole; Overhead Crane (Gantry or Straddle Type); Pile Driver; Power Grader; Remote Controlled Mole or Tunnel Machine; Scraper; Shovel; Side Boom; Slip Form Paver (If a second man is needed, they shall be an Oiler); Tripper/Maintenance Engineer (shaft & tunnel); Tractor Drawn Belt-Type Loader; Tug Operator (manned rented equipment excluded); Tunnel Shovel.

CLASS B: Automated Central Mix Concrete Plant; Backhoe (topside); Backhoe (track mounted, rubber tired); Backhoe (topside); Bituminous Spreader and Mixer, Blacktop Plant (non-automated); Blast or Rotary Drill (truck or tractor mounted); Boring Machine; Cage Hoist; Central Mix Plant(non-automated); all Concrete Batching Plants; Compressors (4 or less exceeding 2,000 c.f.m. combined capacity); Concrete Pump; Crusher; Diesel Power Unit; Drill Rigs (tractor mounted); Front End Loader (under 4 cu. yd.); Grayco Epoxy Machine; Hoist (One Drum); Hoist (2 or 3 drum topside); Knuckle Boom material handler; Kolman Plant Loader & similar type Loaders (if employer requires another person to clean the screen or to maintain the equipment, they shall be an Oiler); L.C.M. Work Boat Operator; Locomotive; Maintenance Engineer (topside); Maintenance Grease Man; Mixer (for stabilized base-self-propelled); Monorail Machine; Plant Engineer; Personnel Hoist; Pump Crete; Ready Mix Concrete Plant; Refrigeration Equipment (for soil stabilization); Road Widener; Roller (all above sub-grade); Sea Mule; Shotcrete Machine; Shovel (topside); Tractor with Dozer and/or Pusher; Trencher; Tugger Hoist; Tunnel Locomotive; Vacuum Machine (mounted or towed); Welder; Winch; Winch Cat.

CLASS C: A Frame Truck; All Terrain Telescoping Material Handler; Ballast Regulator (ride-on); Compressors (4 not to exceed 2,000 c.f.m. combined capacity; or 3 or less with more than 1200 c.f.m. but not to exceed 2,000 c.f.m.); Compressors ((any size, but subject to other provisions for compressors), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (4 or any type combination)); Concrete Pavement Spreaders and Finishers; Conveyor; Drill (core); Drill (well); Electric Pump used in conjunction with Well Point System; Farm Tractor with Accessories; Fine Grade Machine; Fork Lift; Grout Pump (over 5 cu. ft.); Gunite Machine; Hammers (hydraulic-self-propelled); Hydra-Spiker (ride-on); Hydra-Blaster (water); Hydro-Blaster; Motorized Form Carrier; Post Hole Digger and Post Driver; Power Sweeper; Roller grade & fill); Scarifer (ride-on); Span-Saw (ride-on); Submersible Electric Pump (when used in lieu of well points); Tamper (ride-on); Tie-Extractor (ride-on), Tie Handler (ride-on), Tie Inserter (ride-on), Tie Spacer (ride-on); Track Liner (ride-on); Tractor with towed accessories; Vibratory Compactor; Vibro Tamp, Well Point.

CLASS D: Aggregate Plant; Cement & Bin Operator; Compressors (3 or less not to exceed 1,200 c.f.m. combined capacity); Compressors ((any size, but subject to other provisions for compressors), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (3 or less or any type or combination)); Concrete Saw (self-propelled); Form Tamper; Greaseman; Hydraulic Pump (jacking system); Junior Engineer; Light Plants; Mulching Machine; Oiler; Parapet Concrete or Pavement Grinder; Power Broom (towed); Power Heaterman (when used for production); Revinius Widener; Shell Winder; Steam Cleaner; Tractor.

Per hour:	07/01/2025
CLASS A	$ 58.44
CLASS B	57.22
CLASS C	54.43
CLASS D	51.42

Additional $5.00 per hour for Hazardous Waste Work on a state or federally designated hazardous waste site where the Operating Engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin and eye protection.

CRANES:
Crane 1: All cranes, including self-erecting.
Crane 2: All Lattice Boom Cranes and all cranes with a manufacturer's rating of fifty (50) ton and over.
Crane 3: All hydraulic cranes and derricks with a manufacturer's rating of forty nine (49) ton and below, including boom trucks.

Crane 1	$ 62.44
Crane 2	61.44
Crane 3	60.44

SUPPLEMENTAL BENEFITS

Per hour:

$ 25.90
+ 10.10*

* This portion of the benefits subject to SAME PREMIUM as shown for overtime wages.

OVERTIME PAY

See (B, B2, E, Q, X) on OVERTIME PAGE

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: If a holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES
WAGES:(1000) hours terms at the following percentage of Journeyworker's Class B wage.

1st term	60%
2nd term	65%
3rd term	70%
4th term	75%

SUPPLEMENTAL BENEFITS per hour: Same as Journeyworker

7-158-832TL.

Painter — 08/01/2025

JOB DESCRIPTION Painter **DISTRICT** 1

ENTIRE COUNTIES
Columbia, Dutchess, Greene, Orange, Sullivan, Ulster

WAGES
Per hour

	07/01/2025
Brush/Paper Hanger	$ 40.45
Dry Wall Finisher	40.45
Lead Abatement	40.45
Sandblaster-Painter	40.45
Spray Rate	41.45

See Bridge Painting rates for the following work:
Structural Steel, all work performed on tanks, ALL BRIDGES, towers, smoke stacks, flag poles. Rate shall apply to all of said areas from the ground up.

SUPPLEMENTAL BENEFITS
Per hour

Journeyworker	$ 27.72

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

HOLIDAY

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

REGISTERED APPRENTICES
Wages per hour

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

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

Supplemental Benefits per hour worked

1st term	$ 11.64
All others	27.72

1-155

Painter - Bridge & Structural Steel — 08/01/2025

JOB DESCRIPTION Painter - Bridge & Structural Steel **DISTRICT** 8

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

WAGES
Per Hour:
STEEL:

Bridge Painting:	07/01/2025	10/01/2025
	$ 56.25	Additional
	+ 11.10*	$3.17**

ADDITIONAL $7.00 per hour for POWER TOOL/SPRAY, whether straight time or overtime.

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

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (50 hour cap).

** To be allocated a later date

NOTE: Generally, for Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

SHIFT WORK

When directly specified in public agency or authority contract documents for an employer to work a second shift and works the second shift with employees other than from the first shift, all employees who work the second shift will be paid 10% of the base wage shift differential in lieu of overtime for the first eight (8) hours worked after which the employees shall be paid at time and one half of the regular wage rate. When a single irregular work shift is mandated in the job specifications or by the contracting agency, wages shall be paid at time and one half for single shifts between the hours of 3pm-11pm or 11pm-7am.

SUPPLEMENTAL BENEFITS

Per Hour:
Journeyworker:

$ 13.33
+ 30.76*

* For the period of May 1st to November 15th, this amount is payable up to 40 hours. For the period of Nov 16th to April 30th, this amount is payable up to 50 hours. EXCEPTION: First and last week of employment, and for the weeks of Memorial Day, Independence Day and Labor Day, where the amount is paid for the actual number of hours worked (50 hour cap).

OVERTIME PAY

See (B, F, R) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES

Wage - Per hour:
Apprentices: (1) year terms.

1st year	$ 22.50
	+ 4.44
2nd year	$ 33.75
	+ 6.63
3rd year	$ 45.00
	+ 8.88

Supplemental Benefits - Per hour:

1st year	$ 1.52
	+ 12.51
2nd year	$ 8.00
	+ 18.47
3rd year	$ 10.66
	+ 24.62

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

8-DC-9/806/155-BrSS

Painter - Line Striping **08/01/2025**

JOB DESCRIPTION Painter - Line Striping **DISTRICT** 8

ENTIRE COUNTIES

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

WAGES
Per hour:

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

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

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

SUPPLEMENTAL BENEFITS
Per hour paid:
Journeyworker:

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

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

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

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

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

Supplemental Benefits per hour:

All terms:	$ 24.30	$ 24.30	$ 24.95

8-1456-LS

Painter - Metal Polisher — 08/01/2025

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

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

WAGES

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

*Note: Applies on New Construction & complete renovation
** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2025
Journeyworker:	
All classification	$ 13.44

OVERTIME PAY
See (B, E, P, T) on OVERTIME PAGE

HOLIDAY

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

REGISTERED APPRENTICES
Wages per hour:
One (1) year term at the following wage rates:

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

*Note: Applies on New Construction & complete renovation
** Note: Applies when working on scaffolds over 34 feet.

Supplemental benefits:
Per hour:

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

8-8A/28A-MP

Plumber — 08/01/2025

JOB DESCRIPTION Plumber **DISTRICT** 8

ENTIRE COUNTIES
Dutchess

PARTIAL COUNTIES
Delaware: Only the Townships of Middletown and Roxbury.
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:

	07/01/2025
Plumber & Steamfitter	$ 60.66

SHIFT WORK
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:	$ 45.35

OVERTIME PAY
See (B, E, E2, Q, V) 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 rates:

	07/01/2025
1st year	$ 23.24
2nd year	32.02

3rd year	37.15
4th year	44.51
5th year	51.20

Supplemental Benefits per hour:

1st year	$ 19.15
2nd year	24.55
3rd year	28.50
4th year	32.99
5th year	36.44

8-21.2-SF

Plumber - HVAC / Service — 08/01/2025

JOB DESCRIPTION Plumber - HVAC / Service **DISTRICT** 8

ENTIRE COUNTIES
Dutchess, Putnam, Westchester

PARTIAL COUNTIES
Delaware: Only the townships of Middletown and Roxbury
Ulster: Entire County(including Wallkill and Shawangunk Prisons) except for remainder of Town of Shawangunk and Towns of Plattekill, Marlboro, and Wawarsing.

WAGES
Per hour: 07/01/2025

HVAC Service	$ 44.43
	+ $ 4.52*

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

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker HVAC Service
$ 31.84

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.
$ 20.11	$ 23.87	$ 29.70	$ 36.53	$ 39.73
+$2.45*	+$2.79*	+$3.34*	+$4.00*	+$4.26*

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

Supplemental Benefits per hour:

Apprentices 07/01/2025

1st term	$ 22.13
2nd term	23.85
3rd term	25.71
4th term	28.29
5th term	30.11

8-21.1&2-SF/Re/AC

Plumber - Jobbing & Alterations — 08/01/2025

JOB DESCRIPTION Plumber - Jobbing & Alterations **DISTRICT** 8

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:	07/01/2025
Journeyworker:	$ 50.68

Repairs, replacements and alteration work is any repair or replacement of a present plumbing system that does not change existing roughing or water supply lines.

SHIFT WORK
When directly specified in public agency or authority contract documents, shift work outside the regular hours of work shall be comprised of eight (8) hours per shift not including Saturday, Sundays and holidays. One half (1/2) hour shall be allowed for lunch after the first four (4) hours of each shift. Wage and Fringes for shift work shall be straight time plus a shift premium of twenty-five (25%) percent. A minimum of five days Monday through Friday must be worked to establish shift work.

SUPPLEMENTAL BENEFITS
Per hour:
Journeyworker
$ 37.83

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	$ 21.76
2nd year	24.20
3rd year	26.41
4th year	37.03
5th year	39.14

Supplemental Benefits per hour:

1st year	$ 12.65
2nd year	14.82
3rd year	19.10
4th year	25.85
5th year	28.01

8-21.3-J&A

Roofer — 08/01/2025

JOB DESCRIPTION Roofer **DISTRICT** 9

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

WAGES

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

* This portion is not subjected to overtime premiums.

Note: Abatement/Removal of Asbestos containing roofs and roofing material is classified as Roofer.

SUPPLEMENTAL BENEFITS
Per Hour: $ 32.62

OVERTIME PAY
See (B, H) on OVERTIME PAGE
Note: An observed holiday that falls on a Sunday will be observed the following Monday.

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

REGISTERED APPRENTICES

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

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

Supplements:

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

* This portion is not subjected to overtime premiums.

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

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

Supplements:

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

* This portion is not subjected to overtime premiums.

9-8R

Sheetmetal Worker — 08/01/2025

JOB DESCRIPTION Sheetmetal Worker **DISTRICT** 8

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

WAGES

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

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

SHIFT WORK
For all NYS D.O.T. and other Governmental mandated off-shift work:
10% increase for additional shifts for a minimum of five (5) days

SUPPLEMENTAL BENEFITS
Journeyworker $ 47.43

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 16, 23) on HOLIDAY PAGE

REGISTERED APPRENTICES

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

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

Supplemental Benefits per hour:

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

8-38

Sprinkler Fitter — 08/01/2025

JOB DESCRIPTION Sprinkler Fitter **DISTRICT** 1

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

WAGES

Per hour	07/01/2025
Sprinkler Fitter	$ 57.20

SUPPLEMENTAL BENEFITS

Per hour	
Journeyworker	$ 31.36

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

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

REGISTERED APPRENTICES
Wages per hour

One Half Year terms at the following wage.

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

Supplemental Benefits per hour

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

1-669.2

Teamster - Building / Heavy&Highway — 08/01/2025

JOB DESCRIPTION Teamster - Building / Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Dutchess, Orange, Rockland, Sullivan, Ulster

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

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

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

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

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

GROUP VI: Straight Trucks.

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

WAGES: (per hour)	07/01/2025	05/01/2026
GROUP I	$ 37.91	$ 39.51
GROUP II	39.03	40.63
GROUP III	37.35	38.95
GROUP IV	37.13	38.73
GROUP V	37.02	38.62
GROUP VI	36.90	38.50
GROUP VII	36.90	38.50

NOTE ADDITIONAL PREMIUMS:

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

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

SUPPLEMENTAL BENEFITS

Per hour:		
First 40 hours	$ 46.37	$ 47.68
Over 40 hours	38.37	39.68

OVERTIME PAY
See (*B, E, **E2, ***P, X) on OVERTIME PAGE
*Holidays worked Monday through Friday receive Double Time (2x) after 8 hours.
**Makeup day limited to the employees who were working on the site that week.
***Sunday Holidays are paid at a rate of double time and one half (2.5x) for all hours worked.

HOLIDAY
Paid: See (5, 6, 15, 25) on HOLIDAY PAGE
Overtime: See (*1) on HOLIDAY PAGE
- Any employee working two (2) days in any calendar week during which a holiday occurs shall receive a days pay for each holiday occurring during said week. This provision shall also apply if a holiday falls on a Saturday or Sunday.
*See OVERTIME PAY section for when additional premium is applicable on Holiday hours worked.

11-445B/HH

Teamster - Delivery - Building / Heavy&Highway — 08/01/2025

JOB DESCRIPTION Teamster - Delivery - Building / Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Dutchess, Orange, Rockland, Sullivan, Ulster

WAGES
THESE RATES ARE ONLY TO BE USED FOR DELIVERY OF AGGREGATE MATERIALS TO THE JOB SITE. FOR ALL ONSITE WORK AND HAULING OF SPOILS SEE THE TEAMSTER BUILDING/HEAVY & HIGHWAY RATES.

Group 1 Tractor Trailer Drivers
Group 2 Tri- Axle

Wages:	07/01/2025	05/01/2026
Group 1	$ 37.35	$ 38.95
Group 2	37.02	38.62

Hazardous/Toxic Waste Removal additional 20% when personal protective equipment is required.

SUPPLEMENTAL BENEFITS

Per hour paid:		
First 40 hours	$ 46.37	$ 47.68
Over 40 hours	0.00	0.00

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

HOLIDAY
Paid: See (5, 13, 15, 16, 20, 22, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 13, 15, 16, 20, 22, 25, 26) on HOLIDAY PAGE
- Employee must work either the scheduled day of work before or the scheduled day of work after the holiday in the workweek.
- Any employee working one (1) day in the calendar week during which a holiday occurs shall receive a day's pay for each holiday occurring during said week. This provision shall also apply if a holiday falls on a Saturday.
- When any of the recognized holidays occur on Sunday and are celebrated any day before or after the holiday Sunday, such days shall be considered as the holiday and paid for as such.

11-445 B/HH Delivery

Welder — 08/01/2025

JOB DESCRIPTION Welder **DISTRICT** 1

ENTIRE COUNTIES

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

WAGES

Per hour 07/01/2025

Welder: To be paid the same rate of the mechanic performing the work.*

*EXCEPTION: If a specific welder certification is required, then the 'Certified Welder' rate in that trade tag will be paid.

OVERTIME PAY

HOLIDAY

1-As Per Trade

Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

NOTE: Supplemental Benefits are 'Per hour worked' (for each hour worked) unless otherwise noted

(AA)	Time and one half of the hourly rate after 7 and one half hours per day
(A)	Time and one half of the hourly rate after 7 hours per day
(B)	Time and one half of the hourly rate after 8 hours per day
(B1)	Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday. Double the hourly rate for all additional hours
(B2)	Time and one half of the hourly rate after 40 hours per week
(B3)	Time and one half of the hourly rate after 40 straight hours per week
(C)	Double the hourly rate after 7 hours per day
(C1)	Double the hourly rate after 7 and one half hours per day
(D)	Double the hourly rate after 8 hours per day
(D1)	Double the hourly rate after 9 hours per day
(E)	Time and one half of the hourly rate on Saturday
(E1)	Time and one half 1st 4 hours on Saturday; Double the hourly rate all additional Saturday hours
(E2)	Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(E3)	Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
(E4)	Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(E5)	Double time after 8 hours on Saturdays
(F)	Time and one half of the hourly rate on Saturday and Sunday
(G)	Time and one half of the hourly rate on Saturday and Holidays
(H)	Time and one half of the hourly rate on Saturday, Sunday, and Holidays
(I)	Time and one half of the hourly rate on Sunday
(J)	Time and one half of the hourly rate on Sunday and Holidays
(K)	Time and one half of the hourly rate on Holidays
(L)	Double the hourly rate on Saturday
(M)	Double the hourly rate on Saturday and Sunday
(N)	Double the hourly rate on Saturday and Holidays
(O)	Double the hourly rate on Saturday, Sunday, and Holidays
(P)	Double the hourly rate on Sunday
(Q)	Double the hourly rate on Sunday and Holidays
(R)	Double the hourly rate on Holidays

(S)	Two and one half times the hourly rate for Holidays
(S1)	Two and one half times the hourly rate the first 8 hours on Sunday or Holidays One and one half times the hourly rate all additional hours.
(T)	Triple the hourly rate for Holidays
(U)	Four times the hourly rate for Holidays
(V)	Including benefits at SAME PREMIUM as shown for overtime
(W)	Time and one half for benefits on all overtime hours.
(X)	Benefits payable on Paid Holiday at straight time. If worked, additional benefit amount will be required for worked hours. (Refer to other codes listed.)

Holiday Codes

PAID Holidays:

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

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

(1)	None
(2)	Labor Day
(3)	Memorial Day and Labor Day
(4)	Memorial Day and July 4th
(5)	Memorial Day, July 4th, and Labor Day
(6)	New Year's, Thanksgiving, and Christmas
(7)	Lincoln's Birthday, Washington's Birthday, and Veterans Day
(8)	Good Friday
(9)	Lincoln's Birthday
(10)	Washington's Birthday
(11)	Columbus Day
(12)	Election Day
(13)	Presidential Election Day
(14)	1/2 Day on Presidential Election Day
(15)	Veterans Day
(16)	Day after Thanksgiving
(17)	July 4th
(18)	1/2 Day before Christmas
(19)	1/2 Day before New Years
(20)	Thanksgiving
(21)	New Year's Day
(22)	Christmas
(23)	Day before Christmas
(24)	Day before New Year's
(25)	Presidents' Day
(26)	Martin Luther King, Jr. Day
(27)	Memorial Day
(28)	Easter Sunday

(29) Juneteenth

New York State Department of Labor - Bureau of Public Work
State Office Building Campus
Building 12 - Room 130
Albany, New York 12226

REQUEST FOR WAGE AND SUPPLEMENT INFORMATION

As Required by Articles 8 and 9 of the NYS Labor Law

Fax (518) 485-1870 or mail this form for new schedules or for determination for additional occupations.

This Form Must Be Typed

Submitted By: (Check Only One) ☐ Contracting Agency ☐ Architect or Engineering Firm ☐ Public Work District Office Date:

A. Public Work Contract to be let by: (Enter Data Pertaining to Contracting/Public Agency)

1. Name and complete address ☐ (Check if new or change)

Telephone Fax

E-Mail:

2. NY State Units (see Item 5).

- ☐ 01 DOT
- ☐ 02 OGS
- ☐ 03 Dormitory Authority
- ☐ 04 State University Construction Fund
- ☐ 05 Mental Hygiene Facilities Corp.
- ☐ 06 OTHER N.Y. STATE UNIT
- ☐ 07 City
- ☐ 08 Local School District
- ☐ 09 Special Local District, i.e., Fire, Sewer, Water District
- ☐ 1O Village
- ☐ 11 Town
- ☐ 12 County
- ☐ 13 Other Non-N.Y. State (Describe)

3. SEND REPLY TO ☐ (check if new or change)
Name and complete address:

Telephone Fax

E-Mail:

4. SERVICE REQUIRED. Check appropriate box and provide project information.

☐ New Schedule of Wages and Supplements.

APPROXIMATE BID DATE :

☐ Additional Occupation and/or Redetermination

PRC NUMBER ISSUED PREVIOUSLY FOR THIS PROJECT :

OFFICE USE ONLY

B. PROJECT PARTICULARS

5. Project Title _____

Description of Work _____

_____

Contract Identification Number _____

Note: For NYS units, the OSC Contract No. _____

6. Location of Project:
Location on Site _____

Route No/Street Address _____

Village or City _____

Town _____

County _____

7. Nature of Project - Check One:

- ☐ 1. New Building
- ☐ 2. Addition to Existing Structure
- ☐ 3. Heavy and Highway Construction (New and Repair)
- ☐ 4. New Sewer or Waterline
- ☐ 5. Other New Construction (Explain)
- ☐ 6. Other Reconstruction, Maintenance, Repair or Alteration
- ☐ 7. Demolition
- ☐ 8. Building Service Contract

8. OCCUPATION FOR PROJECT :

- ☐ Construction (Building, Heavy Highway/Sewer/Water)
- ☐ Tunnel
- ☐ Residential
- ☐ Landscape Maintenance
- ☐ Elevator maintenance
- ☐ Exterminators, Fumigators
- ☐ Fire Safety Director, NYC Only
- ☐ Fuel Delivery
- ☐ Guards, Watchmen
- ☐ Janitors, Porters, Cleaners, Elevator Operators
- ☐ Moving furniture and equipment
- ☐ Trash and refuse removal
- ☐ Window cleaners
- ☐ Other (Describe)

9. Does this project comply with the Wicks Law involving separate bidding? YES ☐ NO ☐

10. Name and Title of Requester

Signature

SEE PAGE TWO FOR LAWS RELATING TO PUBLIC WORK CONTRACTS

NEW YORK STATE DEPARTMENT OF LABOR
Bureau of Public Work - Debarment List

LIST OF EMPLOYERS INELIGIBLE TO BID ON OR BE AWARDED ANY PUBLIC WORK CONTRACT

Under Article 8 and Article 9 of the NYS Labor Law, a contractor, sub-contractor and/or its successor shall be debarred and ineligible to submit a bid on or be awarded any public work or public building service contract/sub-contract with the state, any municipal corporation or public body for a period of five (5) years from the date of debarment when:

- Two (2) final determinations have been rendered within any consecutive six-year (6) period determining that such contractor, sub-contractor and/or its successor has WILLFULLY failed to pay the prevailing wage and/or supplements;
- One (1) final determination involves falsification of payroll records or the kickback of wages and/or supplements.

The agency issuing the determination and providing the information, is denoted under the heading 'Fiscal Officer'. DOL = New York State Department of Labor; NYC = New York City Comptroller's Office; AG = New York State Attorney General's Office; DA = County District Attorney's Office.

Debarment Database: To search for contractors, sub-contractors and/or their successors debarred from bidding or being awarded any public work contract or subcontract under NYS Labor Law Articles 8 and 9, or under NYS Workers' Compensation Law Section 141-b, access the database at this link: https://apps.labor.ny.gov/EDList/searchPage.do

For inquiries please call 518-457-5589.

NYSDOL Bureau of Public Work Debarment List 08/18/2025

Article 8

AGENCY	Fiscal Officer	FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	DOL	*****5754	0369 CONTRACTORS, LLC		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL	*****5784	A.J.M. TRUCKING, INC.		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	DOL		AKHLAQ OULAKH		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	NYC		ALL COUNTY SEWER & DRAIN, INC.		7 GREENFIELD DR WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL	*****8387	AMERICAN PAVING & MASONRY, CORP.		8 FOREST AVE GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL	*****8654	AMERICAN PAVING, INC.		8 FORREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	NYC		AMJED PARVEZ		401 HANOVER AVENUE STATEN ISLAND NY 10304	01/11/2021	01/11/2026
DOL	DOL		ANGELO F COKER		2610 SOUTH SALINA STREET SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		ANGELO GARCIA		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL		ANGELO STANCO		8 FOREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL		ANGELO TONDO		449 WEST MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****4231	ANKER'S ELECTRIC SERVICE, INC.		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL		ANTHONY MONGELLI		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	NYC		ARADCO CONSTRUCTION CORP		115-46 132RD ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC		AVM CONSTRUCTION CORP		117-72 123RD ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC		AZIDABEGUM		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	DOL	*****8421	B & B DRYWALL, INC		206 WARREN AVE APT 1WHITE PLAINS NY 10603	12/14/2021	12/14/2026
DOL	DOL		B&L RENOVATION CO.		618 OCEAN PARKWAY APT A6BROOKLYN NY 11230	09/17/2020	09/17/2025
DOL	NYC	*****2113	BHW CONTRACTING, INC.		401 HANOVER AVENUE STATEN ISLAND NY 10304	01/11/2021	01/11/2026
DOL	DA	*****2404	BJA RENOVATION, CORP		33 DOLLARD DR NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL	*****5078	BLACK RIVER TREE REMOVAL, LLC		29807 ANDREWS ROAD BLACK RIVER NY 13032	10/17/2023	10/17/2028
DOL	DOL		BRADLEY J SCHUKA		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	DOL	*****9383	C.C. PAVING AND EXCAVATING, INC.		2610 SOUTH SALINA ST SUITE 12SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL	*****5161	CALADRI DEVELOPMENT CORP.		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****3391	CALI ENTERPRISES, INC.		1223 PARK STREET PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****4155	CASA BUILDERS, INC.	FRIEDLANDER CONSTRUCTI ON	64 N PUTT CONNERS ROAD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG	*****7247	CENTURY CONCRETE CORP		2375 RAYNOR ST RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****0026	CHANTICLEER CONSTRUCTION LLC		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	NYC	*****2117	CHARAN ELECTRICAL ENTERPRISES		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DOL		CHRISTOPHER GRECO		26 NORTH MYRTLE AVENUE SPRING VALLEY NY 10956	02/18/2021	02/18/2026
DOL	DOL	*****2281	CORRAO TRUCKING, INC.		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL		CRAIG JOHANSEN		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL	*****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	*****7619	DANCO CONSTRUCTION UNLIMITED INC.		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026

DOL	DOL		DANIEL ROBERT MCNALLY		7 GREENFIELD DRIVE WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL		DARIAN L COKER		2610 SOUTH SALINA ST SUITE 2CSYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		DARWIN PEGUESE		6400 BALTIMORE NATIONAL SUITE 602CANTONSVILLE NY 21228	10/24/2024	10/24/2029
DOL	DOL		DAVID FRIEDLANDER		64 NORTH PUTT CORNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	DOL		DINA TAYLOR		64 N PUTT CONNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG		EDWIN HUTZLER		23 NORTH HOWELLS RD BELLPORT NY 11713	08/04/2021	08/04/2026
DOL	DA		EDWIN HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	DOL		EMIL KISZKO		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	*****3298	EMJACK CONSTRUCTION CORP.		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	*****3298	EMJACK CONSTRUCTION LLC		4192 SIR ANDREW CIRCLE DOYLESTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL		EUGENIUSZ "GINO" KUCHAR		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	DA		FREDERICK HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****2998	G.E.M. AMERICAN CONSTRUCTION CORP.		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	NYC		GAYATRI MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DA		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	DA		GIOVANNA TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		GIOVANNI NAPOLITANO		2501 BAYVIEW AVENUE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DA	*****0213	GORILLA CONTRACTING GROUP, LLC		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DA	*****4760	GTX CONSTRUCTION ASSOCIATES, CORP		2501 BAYVIEW AVE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****2397	ISLAND BREEZE MARINE, INC.		6400 BALTIMORE NATIONAL CANTONSVILLE MD 21228	10/24/2024	10/24/2029
DOL	DOL	*****5010	J. LINDSLEY ENTERPRISE, LLC		1002 STATE ROUTE 176 FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	*****0241	J. LINDSLEY ROOFING, LLC		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	*****9211	J. WASE CONSTRUCTION CORP.		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		J.M.J CONSTRUCTION		151 OSTRANDER AVENUE SYRACUSE NY 13205	11/21/2022	11/21/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	12/12/2022	12/12/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028

DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		JAMES J. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL		JAMES LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****7993	JBS DIRT, INC.		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****2435	JEFFEL D. JOHNSON	JMJ7 AND SON	5553 CAIRNSTRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JEFFEL JOHNSON ELITE CARPENTER REMODEL AND CONSTRUCTION		C2 EVERGREEN CIRCLE LIVERPOOL NY 13090	11/21/2022	11/21/2027
DOL	DOL	*****2435	JEFFREY M. JOHNSON	JMJ7 AND SON	5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JENNIFER LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JIM PLAUGHER		17613 SANTE FE LINE ROAD WAYNEFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL		JMJ7 & SON CONSTRUCTION, LLC		5553 CAIRNS TRAIL LIVERPOOL NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 AND SONS CONTRACTORS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS		7014 13TH AVENUE BROOKLYN NY 11228	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS AND SONS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS, LLC		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JOHN MARKOVIC		47 MANDON TERRACE HAWTHORN NJ 07506	03/29/2021	03/29/2026
DOL	DOL		JOHN WASE		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		JORGE RAMOS		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	DA		JOSEPH DEMASCO		33 DOLLARD DRIVE NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL		JOSEPH HALL		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL	*****2271	JOSEPH HALL COMPANIES LLC		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL		JOSEPH K. SALERNO		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL		JOSEPH K. SALERNO II		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		JRN CONSTRUCTION CO, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027

DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL		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		KEAN INDUSTRIES, LLC		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL	*****2959	KELC DEVELOPMENT, INC		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL		KEVIN FUNEZ URBINA A/K/A KEVIN FUNEZ		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KIMBERLY F. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****8760	KJ&J CONSTRUCTION, LLC		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KMA GROUP II, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL	*****1833	KMA GROUP INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KMA INSULATION, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KRIN HEINEMANN		2345 ROUTE 52, SUITE 2N HOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	NYC		KULWANT S. DEOL		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DA	*****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL	*****3716	LIGHTNIN ELECTRIC INC.		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	AG	*****3291	LINTECH ELECTRIC, INC.		3006 TILDEN AVE BROOKLYN NY 11226	02/16/2022	02/16/2027
DOL	DOL		LOUIS A. CALICCHIA		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****2196	MAINSTREAM SPECIALTIES, INC.		11 OLD TOWN RD SELKIRK NY 12158	02/02/2021	02/02/2026
DOL	DA		MANUEL P TOBIO		150 KINGS STREET BROOKLYN NY 14444	08/19/1998	08/19/2998
DOL	DA		MANUEL TOBIO		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		MAQSOOD AHMAD		618 OCEAN PKWY BROOKLYN NY 11230	09/17/2020	09/17/2025
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		MOHAMMAD MIAN		8269 21ST ST BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	NYC		MUHAMMED A. HASHEM		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	NYC		NASEER CHAUDHRY		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	DOL	*****7790	NATIONAL BUILDING & RESTORATION CORP		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****1797	NATIONAL CONSTRUCTION SERVICES, INC		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	NYC		NAVIT SINGH		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		NELCO CONTRACTING, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028

DOL	DA		NICHOLAS BARNETT		33 DOLLARD DR BABYLON NY 11703	03/04/2025	03/04/2030
DOL	DA		NICHOLAS T. ANALITIS		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL	*****7429	NICOLAE I. BARBIR	BESTUCCO CONSTRUCTION, INC.	444 SCHANTZ ROAD ALLENTOWN PA 18104	09/17/2020	09/17/2025
DOL	DOL		NIKOLA NTONI		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	NYC	*****6971	NN CONSTRUCTION, INC.		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	NYC	*****5643	NYC LINE CONTRACTORS, INC.		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		PAULINE CHAHALES		935 S LAKE BLVD MAHOPAC NY 10541	03/02/2021	03/02/2026
DOL	DOL		PETER STEVENS		11 OLD TOWN ROAD SELKIRK NY 12158	02/02/2021	02/02/2026
DOL	DOL	*****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	*****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL	*****4772	R.W. LOBDELL CONSTRUCTION LLC		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	NYC		RASHEL CONSTRUCTION CORP		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	DOL	*****2633	RAW POWER ELECTRIC CORP.		3 PARK CIRCLE MIDDLETOWN NY 10940	07/11/2022	07/11/2027
DOL	DA	*****7559	REGAL CONTRACTING INC.		24 WOODBINE AVE NORTHPORT NY 11768	10/01/2020	10/01/2025
DOL	DOL		ROBBYE BISSESAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROMEO WARREN		161 ROBYN RD MONROE NY 10950	07/11/2022	07/11/2027
DOL	DOL	*****7172	RZ & AL INC.		198 RIDGE AVENUE VALLEY STREAM NY 11581	06/06/2022	06/06/2027
DOL	DOL		SAL FRESINA MASONRY CONTRACTORS, INC.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL		SAL MASONRY CONTRACTORS, INC.		(SEE COMMENTS) SYRACUSE NY 13202	07/16/2021	07/16/2026
DOL	DOL	*****9874	SALFREE ENTERPRISES INC		P.O BOX 14 2821 GARDNER RDPOMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		SALVATORE A FRESINA A/K/A SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DOL		SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DA	*****0476	SAMCO ELECTRIC CORP.		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		SILVANO TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DOL	*****0440	SOLAR GUYS INC.		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	NYC		SOMATIE RAMSUNAHAI		115-46 132ND ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC	*****3661	SPANIER BUILDING MAINTENANCE CORP		200 OAK DRIVE SYOSSET NY 11791	03/14/2022	03/14/2027
DOL	DOL		STANADOS KALOGELAS		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026

NYSDOL Bureau of Public Work Debarment List 08/18/2025

Article 8

DOL	DOL	*****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	DOL	*****9528	STEEL-IT, LLC.		17613 SANTE FE LINE ROAD WAYNESFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL	*****3800	SUBURBAN RESTORATION CO. INC.		5-10 BANTA PLACE FAIR LAWN PLACE NJ 07410	03/29/2021	03/29/2026
DOL	DOL	*****9150	SURGE INC.		8269 21ST STREET BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	DOL		SYED MUHAMMAD S. JAFRI A/K/A SHARRUKH JAFRI		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		SYED RAZA		198 RIDGE AVENUE NY 11581	06/06/2022	06/06/2027
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	*****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	*****5766	THE COKER CORPORATION	COKER CORPORATIO N	2610 SOUTH SALINA ST SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL	*****2426	THE MATRUKH GROUP, INC.		4307 28TH AVE PO BOX 9082ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		THOMAS LOBDELL		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	DOL		TIMOTHY PERCY		29807 ANDREWS ROAD BLACK RIVER NY 13612	10/17/2023	10/17/2028
DOL	DA	*****1050	TRI STATE CONSTRUCTION OF NY CORP.		50-39 175TH PLACE FRESH MEADOWS NY 11365	03/28/2022	03/28/2027
DOL	DA	*****4106	TRIPLE H CONCRETE CORP		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****8210	UPSTATE CONCRETE & MASONRY CONTRACTING CO INC		449 WEST MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****6418	VALHALLA CONSTRUCTION, LLC.		796 PHLEPS ROAD FRANKLIN LAKES NJ 07417	12/01/2020	12/01/2025
DOL	NYC	*****2426	VICKRAM MANGRU	VICK CONSTRUCTI ON	21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	NYC		VICKRAM MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DOL		VINCENT CORRAO		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL	*****8266	WILLIAM CHRIS MCCLENDON	MCCLENDON ASPHALT PAVING	1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM CHRIS MCCLENDON		1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM 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		WILLIAM SCRIVENS		4192 SIR ANDREW CIRCLE DOYELSTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL		XENOFON EFTHIMIADIS		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028

FEDERAL WAGE RATES

"General Decision Number: NY20250007 08/08/2025

Superseded General Decision Number: NY20240007

State: New York

Construction Types: Building, Heavy and Highway

Counties: Dutchess, Orange, Sullivan and Ulster Counties in New York.

BUILDING CONSTRUCTION PROJECTS FOR ALL COUNTIES EXCEPT SULLIVAN (does not include single family homes and apartment up to and including 4 stories), HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2025
1	02/07/2025
2	02/28/2025
3	03/07/2025
4	03/14/2025
5	04/25/2025
6	05/16/2025
7	05/23/2025
8	06/06/2025
9	06/13/2025
10	06/20/2025
11	07/04/2025
12	07/25/2025
13	08/01/2025
14	08/08/2025

ASBE0040-003 05/01/2025

SULLIVAN AND ULSTER COUNTIES

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER Duties limited to preparation wetting; stripping; removal; scrapping; vacuuming; bagging; and disposing of all insulation materials whether they contain asbestos or not from mechanical systems	$ 41.74	27.58
Insulator/asbestos worker (includes application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems)	$ 41.74	27.58

ASBE0091-002 06/03/2024

DUTCHESS AND ORANGE COUNTIES

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER Duties limited to preparation, wetting, stripping, removal scrapping, vacuuming, bagging and disposing of all insulation materials; whether they contain asbestos or not from mechancial systems	$ 45.37	48.65
Insulator/asbestos worker (Includes application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)	$ 45.37	48.65

BOIL0005-001 01/01/2025

	Rates	Fringes
BOILERMAKER	$ 68.88	49.83+a

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Thanksgiving Day, Memorial Day, Independence Day, Labor Day and Good Friday, Friday after Thanksgiving, Christmas Eve Day and New Year's Eve

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BRNY0005-001 06/01/2024

	Rates	Fringes
BRICKLAYER (BUILDING CONSTRUCTION)		
DUTCHESS, ORANGE (Excluding the town of Tuxedo) and ULSTER COUNTIES		
Bricklayers, Cement Masons, Plasterers, Stone Masons	$ 46.45	37.50
ORANGE COUNTY (Town of Tuxedo)		
Bricklayers, Cement Masons, Plasterers, Stone Masons	$ 47.44	38.00
BRICKLAYER (HEAVY CONSTRUCTION)		
DUTCHESS, ORANGE (Excluding the town of Tuxedo) and ULSTER COUNTIES		
Bricklayers, Cement Masons, Plasterers, Stone Masons	$ 46.45	37.50
ORANGE COUNTY (Town of Tuxedo)		
Bricklayers, Cement Masons, Plasterers, Stone Masons	$ 47.44	38.00
BRICKLAYER (HIGHWAY CONSTRUCTION)		
DUTCHESS, ORANGE (Excluding the town of Tuxedo), SULLIVAN and ULSTER COUNTIES		
Bricklayers, Cement Masons, Plasterers, Stone Masons	$ 46.45	37.50

CARP0279-005 07/01/2025

	Rates	Fringes
Carpenters:		
BUILDING CONSTRUCTION		
Carpenters, Millwrights, Pile Drivers	$ 44.72	31.23
HEAVY & HIGHWAY CONSTRUCTION		
Carpenters, Millwrights,		

Pile Drivers	$ 44.72	31.23

CARP0740-002 07/01/2025

DUTCHESS AND ORANGE COUNTIES

	Rates	Fringes
MILLWRIGHT	$ 47.83	43.03

CARP1556-005 07/01/2024

DUTCHESS AND ORANGE COUNTIES

	Rates	Fringes
Diver Tender	$ 55.00	55.84
Diver	$ 75.46	55.84
Dock Builder & Piledrivermen	$ 60.59	55.84

ELEC0363-001 04/01/2025

	Rates	Fringes
ELECTRICIAN		
DUTCHESS (Remaining Townships), ULSTER AND SULLIVAN COUNTIES	$ 51.50	3%+40.67+a
ORANGE and DUTCHESS (Townships of Fishkill, East Fishkill and Beacon) COUNTIES	$ 51.50	3%+40.67+a

FOOTNOTE:
a. Paid Holidays: New Year's Day, President's Day, Memorial Day, Fourth of July, Labor Day, Presidential Election Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day

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ELEC1249-002 05/05/2025

	Rates	Fringes
ELECTRICIAN (LINE CONSTRUCTION-LIGHTING AND TRAFFIC SIGNAL INCLUDING ANY AND ALL FIBER OPTIC CABLE NECESSARY FOR THE TRAFFIC SIGNAL SYSTEMS, AND TRAFFIC MONITORING SYSTEMS, ROAD WEATHER INFORMATION SYSTEMS)		
Flagman	$ 32.51	7%+27.65
Groundman (Digging Machine Operator)	$ 48.77	7%+27.90
Groundman (Truck Driver)	$ 43.35	7%+27.70
Groundman Truck Driver (Tractor Trailer Unit)	$ 43.35	7%+27.70
Lineman and Technician	$ 54.19	7%+31.90
Mechanic	$ 43.35	7%+27.70

PAID HOLIDAYS:

a. Memorial Day, New Year's Day, President's Day, Good Friday, Decoration Day, Independence Day, Labor Day,

Thanksgiving Day, Christmas Day, and Election Day for the President of the United States and Election Day for the Governor of New York State, provided the employee works two days before or two days after the holiday.

ELEC1249-004 05/05/2025

	Rates	Fringes
ELECTRICIAN (Line Construction)		
Overhead and underground distribution and maintenance work and all overhead and underground transmission line work including any and all fiber optic ground wire, fiber optic shield wire or any other like product by any other name manufactured for the dual purpose of ground fault protection and fiber optic capabilities :		
Flagman	$ 35.34	7%+27.65
Groundman digging machine operator	$ 55.40	7%+27.90
Groundman truck driver (tractor trailer unit)	$ 49.25	7%+27.70
Groundman Truck driver	$ 49.25	7%+27.70
Lineman and Technician	$ 61.56	7%+31.90
Mechanic	$ 49.25	7%+27.70
Substation:		
Cable Splicer	$ 63.14	7%+29.40
Flagman	$ 35.34	7%+27.65
Ground man truck driver	$ 49.25	7%+27.70
Groundman digging machine operator	$ 55.40	7%+27.90
Groundman truck driver (tractor trailer unit)	$ 49.25	7%+27.70
Lineman & Technician	$ 61.56	7%+31.90
Mechanic	$ 49.25	7%+27.70
Switching structures; railroad catenary installation and maintenance, third rail type underground fluid or gas filled transmission conduit and cable installations (including any and all fiber optic ground product by any other name manufactured for the dual purpose of ground fault protection and fiber optic capabilities), pipetype cable installation and maintenance jobs or projects, and maintenance bonding of rails; Pipetype cable installation		
Cable Splicer	$ 64.59	7%+38.40

Flagman	$ 35.34	7%+27.65
Groundman Digging Machine Operator	$ 55.40	7%+27.90
Groundman Truck Driver (tractor-trailer unit)	$ 49.25	7%+27.70
Groundman Truck Driver	$ 49.25	7%+27.70
Lineman & Technician	$ 61.56	7%+31.90
Mechanic	$ 49.25	7%+27.70

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, Good Friday, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, and Election Day for the President of the United States and Election Day for the Governor of New York State, provided the employee works two days before or two days after the holiday.

ELEC1249-005 05/05/2025

SULLIVAN COUNTY

	Rates	Fringes
ELECTRICIAN (LIGHTING AND TRAFFIC SIGNAL LINEMAN INCLUDING ANY AND ALL FIBER OPTIC CABLE NECESSARY FOR THE TRAFFIC SIGNAL SYSTEM, TRAFFIC MONITORING SYSTEMS AND ROAD WEATHER INFORMATION SYSTEMS.)		
Flagman	$ 35.34	7%+27.65
Groundman (Digging Machine Operator)	$ 55.40	7%+27.90
Groundman (Truck Driver)	$ 49.25	7%+27.70
Groundman Truck Driver (tractor trailer unit)	$ 49.25	7%+27.70
Lineman & Technician	$ 61.56	7%+31.90
Mechanic	$ 49.25	7%+27.70

FOOTNOTE:

a. New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, plus President's Day, Good Friday, Decoration Day, Election Day for the President of the United States and Election Day for the Governor of the State of New York, provided the employee works the day before or the day after the holiday.

ELEC1249-008 01/01/2025

	Rates	Fringes
ELECTRICIAN (Line Construction)		
TELEPHONE, CATV FIBEROPTICS CABLE AND EQUIPMENT		
Cable splicer	$ 40.81	3%+5.77
Groundman	$ 20.53	3%+5.77
Installer Repairman-Teledata		

Lineman/Technician-
Equipment Operator.....$ 38.73 3%+5.77
Tree Trimmer.....$ 31.45 3%+10.48

a. New Year's Day, President's Day, Good Friday, Decoration Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day.

ELEV0138-001 01/01/2025

	Rates	Fringes
ELEVATOR MECHANIC	$ 73.07	38.435+a+b

FOOTNOTE:
a.Vacation: 6%/under 5 years based on regular hourly rate for all hours worked. 8%/over 5 years based on regular hourly rate for all hours worked.
b. PAID HOLIDAYS: New Year's Day; Memorial Day; Independence Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday after Thanksgiving Day; and Christmas Day.

ENGI0137-001 03/04/2024

DUTCHESS COUNTY (POUGHKEEPSIE AND SOUTH THEREOF)

BUILDING CONSTRUCTION

	Rates	Fringes
Power Equipment Operator		
GROUP 1A	$ 59.04	31.32+a
GROUP 1B	$ 54.41	31.32+a
GROUP 2A	$ 56.97	31.32+a
GROUP 3A	$ 54.88	31.32+a
GROUP 3B	$ 52.25	31.32+a
GROUP 4A	$ 54.33	31.32+a
GROUP 4B	$ 45.94	31.32+a
GROUP 5	$ 49.53	31.32+a
GROUP 5A	$ 61.95	31.32+a
GROUP 5B	$ 47.00	31.32+a
GROUP 6	$ 49.26	31.32+a

NOTES: Hazmat: 20% above regular rate
Pumping operation Premium .50

Crane Operators (100-149 ft) 2.00

Crane Operators (149 ft +) 3.00

Loader Operators (over 5 cu y) .50
Shovel Operators (over 4 cu yd)1.00

FOOTNOTE:
a. New Years Day, Memorial Day, Independence Day, Labor Day Thanksgiving Day, Christmas Day, plus Lincoln's Birthday, Washington's Birthday, Good Friday, Columbus Day, November Election Day, Veteran's Day.

POWER EQUIPMENT OPERATORS CLASSIFICATION

GROUP 1-A: Carrier- trailer horse; concret-portable hoist;

crane & hoist engineer-steel (concrete, material, super structure sub- structure); derrick (stone-steel); elevator & cage; hoist- single/double or triple drum; hoist-portable mobile unit; hoist engineer-concert (crane-derrick-mine hoist); hoist engineer- material; overhead crane; power house plant; telephies (cableway); whirly; maintenance engineer; Lull hilift or similar; hydraulic crane 25 ton and over; cherry picker 25 tons and over; backhoe Oliver 88; fordson; dynahoe; dual purpose and similar machines; Barber Green Loader-euclid loader or similar type; conway or similar mucking macking machines; dragline; gradall; shovel; backhoe etc. (crawler or truck); front end loaders; hydraulic boom; jersey spreader; lift slab console; letournequ or tounapull (scrapers over 20 yds struck); mucking machines; pavement breaker (air ram); paver (concrete); road boring machine; road mix machines; ross carrier and similar machines; post hole digger; shovel (tunnels); side boom; spreader (asphalt); scoopmobile-tractor-shovel over 1 1/2 yds. trenching machines vermeer concrete saw trencher and similar; tractor type demolition equipment; winch truck (a frame); hydraulic crane over 10 ton up to 25 ton); cherry picker over 10 ton up to 25 ton)

GROUP 1-B: Compressor (steel erection); pulse meter and push button buzz box; elevator; mechanic (outside) all types; welder; scrapers 20 yds struck and under; machine pulling sheep's foot roller; vibratory rollers; roller 4 tons and over.

GROUP 2-A: Compactor self-propelled; grader; bulldoze D7 and similar tractors with a draw bar horsepower of 100 or over; bulldozer D6 and under; welder; scraper 20 yds struck and under; machine pulling sheep's foot roller; vibratory rollers.

GROUP 3-A: Asphalt plant; boiler (high pressure); concrete mixing plants; concrete pump; firemen; forklift; forklift (electric); joy drill or similar tractor drilling machine; loader - 1 1/2 yards and under; locomotive (all sizes); mixer concrete - 21E and over; portable asphalt plant; portable batch plant; portable crusher; quarry master; stone crusher; well drilling machine and well point system; cherry picker under 10 tons; hydraulic crane under 10 tons; concert buffy; one yard an up ride on dumper (benford or similar).

GROUP 3-B: Compressor over 125 cu. feet; conveyor belt machine regardless of size; lighting unit (portable & generator); welding machine (steel erection and excavation); and compressor plant; stud machine; ladder hoist.

GROUP 4-A: Air tractor drill; batch plant; bending machine; concrete breaker; concrete spreader; curb cutter machine; farm tractor (all types); finishing machine-concrete; hepavac clean air machine (all similar types: removal of asbestos etc.); material hopper-sand-stone-cement; mixer-concrete-under 21E; mulching grass spreader; pump-gypsum, etc., pump-plaster-grout -fireproofing; shop mechanic (not employed on job site); roller under 4 ton; spreading and fine grading machine; steel cutting machine; syphon pump-air-steam; tar joint machine; turbo jet burner or similar equipment; vibrator (1 to 5); fine grading machine; roof hoist (tugger hoist); television

cameras-water- sewer-gas-etc.

GROUP 4-B: Compressor to 125 feet; dust; dust collector; heater all types; pump; pump station (water and sewer); steam jenny; sweeper; chipper; mulcher.

GROUP 5: Motorized roller (walk behind)

GROUP 5-A: Master Mechanic

GROUP 5-B: Utility Man

GROUP 6: Warehouse Man

ENGI0137-007 03/04/2024

Poughkeepsie and South thereof

	Rates	Fringes
Power Equipment Operator (HEAVY & HIGHWAY)		
GROUP 1	$ 68.63	35.25+a
GROUP 1-A	$ 60.42	35.25+a
GROUP 1-B	$ 63.70	35.25+a
GROUP 2-A	$ 57.84	35.25+a
GROUP 2-B	$ 59.67	35.25+a
GROUP 3	$ 56.81	35.25+a
GROUP 4-A	$ 51.57	35.25+a
GROUP 4-B	$ 44.19	35.25+a
GROUP 5	$ 64.02	35.25+a
GROUP 5-A-1	$ 64.02	35.25+a
GROUP 5-A-2	$ 77.82	35.25+a
GROUP 5-A-3	$ 75.13	35.25+a
GROUP 5-A-4	$ 70.41	35.25+a
GROUP 5-A-5	$ 59.19	35.25+a

POWER EQUIPMENT OPERATORS CLASSIFICATIONS (HEAVY & HIGHWAY)

GROUP 1: Boom Truck; Cherry Picker; Clamshell; Crane, (Crawler, Truck); Dragline; Rough Terrain Crane

GROUP 1-A: Auger; Auto Grader; Dynahoe and Dual purpose and similar machines; Boat Captain; Boring Machine (all types); Bull Dozer-all sizes; Central Mix Plant Operator; Chipper-all types; Close circuit t.v.; Compactor with Blade; Concrete Portable Hoist; C.M.I. or similar; Conway or similar mucking machines; Gradall, Shovel Backhoe, etc. Grader; Derrick, (Stone- Steel; Elevator & cage, materials or passengers; Front end loaders over 1 1/2 yds.; Hoist Single, Double, Triple Drum, Hoist Portable Mobile Unit; Hoist Engineer-Concrete (Crane-Derrick-Mine Hoist); Hoist Engineer-Material, Hydraulic Boom; Letourneau or Tournapull (Scrapers over 20 yds. struck); Log Skidder; Movable Concrete Barrier Transfer & Transport Vehicle; mucking machines; overhead crane; paver (conccrete); pulsemeter; push button (buzz box) elevator; road mix machines; Robot Hammer (brock or similar), Ross carrier and similar machines; shovels (tunnels); side boom; Slip Form Machine; spreader (asphalt); scoopmobile-tractor-shovel over 1 1/2 yards; trenching machines; telephies- vermeer concrete saw trencher and/or similar; tractor-type demolition equipment, Whirly

GROUP 1-B: Road Paver, Asphalt

  GROUP 2-A: Ballast Regulators; Compactor self-propelled; Cow Tracks; Fusion Machine; Rail Anchor Machines; Roller 4 ton and over; Scrapers - 20 yards struck; Switch Tampers; Vibratory roller, etc.

GROUP 2-B: Mechanic (outside) all types

  GROUP 3-A: Air tractor drill; asphalt plant; batch plant; boiler (high pressure; concrete breaker; concrete pump concrete spreader; curb cutter machine; farm tractor (all types); finishing machine (concrete); fine grading machine; fireman; forklift; forklift (electric); joy drill or similar tractor drilling machine; loader - 1 1/2 yards and under; locomotive (all sizes), maintenance engineer; machine pulling sheeps foot roller; material hopper; mixer concrete - 21-E and over; mulching grass spreader; portable asphalt plant, portable batch plant, portable crusher; powerhouse plant; quarry master; roller under 4 ton; spreading and fine grading machine; steel cutting machine; stone crusher; sweeper; turbojet burner or similar; well drilling machine ; winch truck ""A"" frame. John Henry Drill or similar.

GROUP 4-A: Service men (fuel or grease truck).

  GROUP 4-B: Oiler; Compressor - compressor plant; paint compressor-steel erection; conveyor belt machine; lighting unit (portable & generator); oiler; pumps - pump station-water-sewer- gypsum- plaster, etc.; roller-motorized (walk-behind); welding machine (steel erection excavation); well point system; bending machine; dust collector; mixer - concrete under 21-E; heater all types; steam jenny; syphon pump-air-steam; tar joint machine; vibrator (1 to 5); Compressor Truck Mounted (2-6)

GROUP 5: Oiler
GROUP 5-A-1: Master Mechanic

  GROUP 5-A-2: Engineer - 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 (except for pile rigs).

GROUP 5-A-3: Engineer-- Pile Driver

GROUP 5-A-4: Hoist Engineer- Steel -Sub Structure

  GROUP 5-A-5: Jersey-spreader, pavement breaker (air ram); Post Hole Digger

NOTES:

Loader Operator (over 5 cu yds)	.50
Shoval Operators (over 4 cu yd)	1.00
Hazmat premium over regular rate	20%

CRANES:

100 ft- 149 ft: receive $2.00 more than Group 1 rate
149 ft and over receive $3.00 more than Group 1 rate

FOOTNOTE:
  a. PAID HOLIDAYS: New Year's Day; Lincoln's Birthday; Good Friday; Memorial Day; Independence Day; Labor Day; Veterans Day; Columbus Day; November Election Day; Thanksgiving Day;

and Christmas Day

ENGI0158-006 07/01/2025

NORTHERN PART OF DUTCHESS (TO THE NORTHEN BOUNDARY LINE OF THE CITY OF POUGHKEEPSIE) BUILDING CONSTRUCTION

	Rates	Fringes
Power equipment operators:		
GROUP A(1)	$ 55.42	33.20
1	$ 49.06	30.74
2	$ 50.06	30.74
GROUP A	$ 54.93	33.20
GROUP B	$ 53.91	33.20
GROUP C	$ 51.01	33.20

Hazardous work - Anytime Operating Engineers are involved with level C or above, $2.50 per hour over regular rate.

FOOTNOTE:
a. Paid Holiday: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP A(1): Crane, hydraulic cranes, tower crane, locomotive crane, piledriver, cableway, derricks, whirlies, dragline, boom truck (over 5 tons)

GROUP A(1): Crane Premiums

1 over 150' :add $1.00
2 over 200': add $2.00

GROUP A: Shovel, All excavator (except tractor mounted rubber tired John Deere 510 or smaller), gradalls, power road grader, all CMI equipment, front-end rubber tire loader, tractor-mounted drill (quarry master), mucking machine, concrete central mix plant, concrete pump, Belcrete system, automated asphalt concrete plant and tractor road paver, boom truck (5 tons and under).

GROUP B: Backhoe, (tractor mounted rubber tired equivalent to John Deere 510 or less), bulldozer, pushcat, tractor, traxcavator, scraper, LeTourneau grader, form fine grader, road roller, blacktop roller, blacktop spreader, power brooms, sweepers, trenching machine, Barber Green loader, side booms, hydrohammer, concrete spreader, concrete finishing machine, one drum hoist, power hosting (single drum), hoist - two drum or more, three drum engine, power hoisting (two drum and over), two drum and swinging engine, three drum swinging engine, hod hoist, A-L frame winches, cord and well drillers (one drum), post hole digger, model CHB Vibro-Tamp or similar machine, batch bin and plant operator, dinkey locomotive, skid steer loader, track excavator 5/8 cu. yd. or smaller.

GROUP C: Fork lift, high lift, lull, Oiler, fireman and heavy- duty greaser, boilers, and steam generators, pump, vibrator, motor mixer, air compressor, dust collector, welding machine, well point, mechanical heater, generators,

temporary light plants, concrete pumps, electric submersible pump 4"" and over, murphy type diesel generator, conveyor, elevators, concrete mixer and belcrete power pack (belcrete system), seeding, and mulching machines, pumps.

ENGI0158-018 07/01/2025

NORTHERN PART OF DUTCHESS (To The Northern Boundary line of the City of Poughkeepsie)

	Rates	Fringes
Power Equipment Operator		
HEAVY & HIGHWAY		
GROUP 1	$ 57.30	33.55
GROUP 2	$ 56.39	33.55
GROUP 3	$ 53.82	33.55
GROUP 4	$ 63.30	33.55
GROUP 5	$ 61.80	33.55
GROUP 6	$ 60.30	33.55
GROUP 7	$ 58.91	33.55

POWER EQUIPMENT OPERATORS HEAVY & HIGHWAY CLASSIFICATIONS

GROUP 1: Asphalt Curb Machine, Self Propelled, Slipform, Automated Concrete Spreader (CMI Type), Automatic Fine Grader, Backhoe (Except Tractor Mounted, Rubber Tired), Backhoe Excavator Full Swing (CAT 212 or similar type), Back Filling Machine, Belt Placer (CMI Type), Blacktop Plant (Automated), Boom truck , Cableway, Caisson Auger, Central Mix Concrete Plant (Automated), Concrete Curb Machine, Self Propelled, Slipform, Concrete Pump, Crane, Cherry Picker, Derricks (steel erection), Dragline, Overhead Crane (Gantry or Straddle type), Pile Driver, Truck Crane, Directional Drilling Machine, Dredge, Dual Drum Paver, Excavator (All Purpose Hydraulically Operated) (Gradall or Similar), Front End Loader (4 cu. yd. and Over), Head Tower (Sauerman or Equal), Hoist (Two or Three Drum), Holland Loader, Maintenance Engineer, Mine Hoist, Mucking Machine or Mole Pavement Breaker(SP) Wertgen; PB-4 and similar type, Power Grader, Profiler (over 105 H.P.) Quad 9, Quarry Master (or equivalent), Scraper, Fireman, Form Tamper, Grout Pump, Gunite Machine, Hammers (Hydraulic self-propelled), Hydra-Spiker, ride-on, Hydraulic Pump (jacking system), Hydro-Blaster (Water), Mulching Machine, Oiler, Parapet Concrete or Pavement, Shovel, Side Boom, Slip Form Paver, Tractor Drawn, BeltType Loader, Truck or Trailer Mounted Log , Chipper (Self Feeder), Tug Operator (Manned Rented Equipment Excluded), Tunnel Shovel

GROUP 2: Asphalt Paver, Backhoe (Tractor Mounted, Rubber Tired), Bituminous Recycler Machine, Bituminous Spreader and Mixer, Blacktop Plant (NonAutomated), Blast or Rotary Drill (Truck or Tractor Mounted), Boring Machine, Cage Hoist, Central Mix Plant (NonAutomated) and All Concrete Batching Plants, Cherry Picker (5 tons capacity and under), Concrete Paver (Over 16S), Crawler Drill, Self-contained, Crusher, Diesel Power Unit, Drill Rigs, Tractor Mounted, Front End Loader (Under 4 cu. yd.), Greaseman/Lubrication Engineer, HiPressure Boiler (15 lbs. and over), Hoist (One Drum), Hydro-Axe, Kolman Plant Loader and Similar Type Loaders, L.C.M. Work Boat Operator, Locomotive Mixer (for stabilized base selfpropelled), Monorail Machine, Plant

Engineer, Profiler (105 H.P. and under), Grinder, Post Hole Digger and Post Driver, Power Broom (towed), Power Heaterman, Power Sweeper, Revinius Widener, Roller (Grade and Fill), Scarifier, ride-on, Shell Winder, Skid steer loader (Bobcat or similar), Span-Saw, ride-on, Steam Cleaner, Pug Mill, Pump Crete Ready Mix Concrete Plant Refrigeration Equipment (for soil stabilization)Road Widener, Roller (all above subgrade), Sea Mule, Self-contained Ride-on Rock Drill, Excluding Air-Track Type Drill, Skidder, Tractor with Dozer and/or Pusher, Trencher. Tugger Hoist, Vermeer saw (ride on, any size or type), Winch, Winch Cat

GROUP 3: A Frame Winch Hoist on Truck , Articulated Heavy Hauler, Aggregate Plant, Asphalt or Concrete Grooving, Machine (ride on), Ballast Regulator, Ride-on Boiler (used in conjunction with production), Bituminous Heater, self-propelled, Boat (powered), Cement and Bin Operator, Compressors, Dust Collectors, Fork Lift, Generators, Pumps, Welding Machines, Light Plants, Heaters (hands-off equipment), Concrete Pavement Spreader and Finisher, Concrete Paver or Mixer (16S and under), Concrete Saw (self-propelled), Conveyor, Deck Hand, Directional Drill Machine Locator, Drill, (Core), Drill, (Well,) Farm Tractor with accessories, Fine Grade Machine, Tamper, ride-on, Tie Extractor, ride-on, Tie Handler, ride-on, Tie Inserter, ride-on, Tie Spacer, ride-on, Tire Repair, Track Liner, ride-on, Tractor, Tractor (with towed accessories), Vibratory Compactor, Vibro Tamp, Well Point

GROUP 4: Tower Cranes

GROUP 5: Cranes 50 tons and over

GROUP 6: Cranes 49 tons and below

GROUP 7: Master Mechanic

FOOTNOTES:

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day

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* ENGI0825-007 07/01/2025

ORANGE, ULSTER AND SULLIVAN COUNTIES

	Rates	Fringes
Power Equipment Operator		
BUILDING, HEAVY & HIGHWAY		
GROUP 1	$ 61.72	37.50
GROUP 2	$ 60.13	37.50
GROUP 3	$ 58.22	37.50
GROUP 4	$ 56.59	37.50
GROUP 5	$ 61.72	37.50
GROUP 6	$ 63.54	37.50

NOTES:

Hazmat Premium	20%
Hydrographic Premium	.50

POWER EQUIPMENT OPERATORS CLASSIFICATIONS (BLDG, HEAVY & HWY)

GROUP 1: Autograde-Pavement-Profiler (CMI and Similar Type); utograde-Pavement-Profiler (CMI and Similar Types);Autograde Slipform Paver (CMI and Similar Types); Backhoe; Central Power Plants (all types); Concrete Paving Machine (s-240 and Similar Types); Cranes (All Types, Including Overhead and Straddle Traveling Type); Cranes, Gantry; Derricks (Land, Floating or Chicago Boom Type); Drillmaster/Quartmaster (Down the Hole Drill) Rotary Drill; Self-Propelled, Hydraulic Drill, Self-Powered Drill Draglines, Elevator Graders, Front End Loaders (5 yds. and over), Gradalls, Grader: Rago, Helicopters (Copilot), Helicopters, (Communication Engineer), Locomotive (large), Mucking Machines, Pavement and Concrete Breaker (Superhammer, Hoe Ram, Brokk 250 and Similar Types), Pile Driver (length of boom including length of leads shall determine premium rate applicable), Roadway Surface Grinder Scooper (loader and shovel), Shovels, Tree Chooper with Boom, Trench Machines, Tunnel Boring Machines.

GROUP 2: ""A"" Frame; Backhoe (Combination); Boom Attachment on Loaders (Rate based on size of bucket) not applicable to Pipehook) Boring and Drilling Machines, Brush Chopper, Shredder and Tree Shredder Tree Shearer, Cableways, Carry-alls, Concrete Pump, Concrete Pumping System, Pumpcrete and Similar Types, Conveyors, 125 ft and over; Drill Doctor (duties include dust collector, maintenance), Front End Loader (22 yds. but less than 2 yds.), Graders (Finish); Groove Cutting Machine (ride on type), Heater Planer; Hoists: (all type hoists, Shall Also Include Steam, Gas, Diesel, Electric, Air Hydraulic, Single and Double Drum, Concrete, Brick Shaft, Caisson, Snorkel Roof, and or any other similar type Hoisting Machines, Portable or Stationary, Except Chicago Boom Type). Long Boom Rate to Be Applied if Hoist is ""outside material lower hoist""; Hydraulic Cranes-10tons and Under; Hydro-Axe; Hydro-Blaster; Jacket (Screw Air Hydraulic Power Operated Unit or Console Type: Not Hand Jack or Pile Load Test Type), Log Skidder; Pans, Pavers (all) Concrete; Plate and Frame Filter Press; Pumpcrete Machines; Squeeze Crete and Concrete Pumping (regardless of size); Scrapers; Sidebooms; Straddle Carrier, Ross and Similar Types; Vacuum Truck; Whip Hammer; Winch Trucks (Hoisting).

GROUP 3: Asphalt Curbing Machine, Asphalt Plant Engineer, Asphalt Spreader; Autograde Tube Finisher & Texturing Machine (CMI and Similar types) Autograde Curecrete Machine (CMI and Similar Types); Bar Bending Machines (power), Batchers, Batching Plant and Crusher on-site; Belt Conveyor Systems; Boom Type Skimmer Machines; Bridge Deck Finisher; Bulldozers (all); Car Dumpers (A:road); Chief of Party; Compressor and Blower Type Units (used) Independenty or Mounted On Dual Purpose Trucks, On Job Site or In Conduction with Job Site, In Loading and Unloading of Concrete, Cement, Fly Ash, Instantcrete, or Similar Type Materials); Compressor 92 or 3 in Battery); Concrete Finishing Machines; Concrete Saws and Cutters (ride on type); Concrete Spreaders, Hetzel, Rexomatic and Similar types; Concrete Vibrators; Conveyors, Under 125 ft), Crushing Machines, Ditching Machine, Small (ditchwitch, Vermeer or Similar type); Dope Dots (mechanical with or without pump), dumpsters; Elevator; Fireman; Forklifts (economobile, lull, and similar types of equipment); Front End Loaders (1 yd. and over but less than 2 yds.); Generators (2 or 3 in Battery/ within 100 ft); Giraffe

Grinders, Graders and Motor Patrols; Grout Pump; Gunnite Machines (excluding nozzle); Hammer Vibratory (in conduction with generators); Hoists (Roof, Tuggeraerial Platfrom Hoist and House Cars), Hoppers, Hoppers Doors (power operated); Hydro-Blaster (where required); Ladders (Motorized); Laddervator; Locomotive, Dinky type; Maintenance, Utility Man; Mechanics; Mixers (Excepting Paving Mixers); Motor Patrols and Graders; Pavement Breakers, Small, Self-Propelled ride on type (also maintains compressor or hydraulic unit); Pavement Breaker, Truck Mounted; Pipe Bending Machine (power); Pitch Pump; Plaster Pump (regardless of size); Post Hole Digger (post pounder and auger); Rod Bending Machines (power); Roller, Black Top; Scales, (power); Seaman Pulverizing Mixer; Shoulder Widener; Silos; Skimmer Machines (Boom Type); Steel Cutting Machine, Services and Maintains; Tamrock Drill; Tractors; Tug Captain; Vibrating Plants (used in conduction with unloading); welder and Repair Machines. Concrete cleaning/decontamination machine operator; Directional boring machine; Heavy equipment robotics operator; Master environmental maintenance operator; Ultra high pressure waterjet cutting tool system operator; maintenance operator; Vacuum blasting machine operator

GROUP 4: Brooms and Sweepers; Chippers; Compressors (single); Concrete Spreaders (small type); Conveyor Loaders (not including Elevator Graders); Engines, Large Diesel (1620 h.p.) and Staging Pump; Farm Tractors; Fertilizing Equipment (Operator and Maintenance of); Fine Grade Machine (small type); Form Line Graders (small type); Front End Loader (under 1 yd); Generator (single); Grease, Gas, Fuel and Oil Supply Trucks; Heaters (Nelson or Other Type Including Propane, Natural Gas or Flowtype Units); Lights, Portable Generating Light Plants; Mixers, Concrete Small; Mulching Equipment (Operation and Maintenance of); Pumps (2 of Less Than 4 Inch Suction); Pumps 94 Inch Suction and Over Including Submersible Pumps); Pumps (Diesel Engine and Hydraulic); Immaterial of Power; Road Finishing Machines (Small Type); Rollers, Grade, Full Or Stone Base; Seeding Equipment (Operation and maintence of); Sprinkler and Water Pump Trucks (Used on job Site or in conduction with Job Site); Steam Jennies and Boilers, Irrespective of Use; Stone Spreader; Tamping Machines, Vibrating Ride On; Temporary Heating Plant (nelson or Other Type, Including Propane, Natural Gas or Flow Type Units); Water and Sprinkler Trucks (Used On Job Site In Conduction with Job Site); Welding Machines-Within 100 ft (Gas, and /or Electric Converters of any type, single, tow or three in a battery). welding system, multiple (rectifier transformer type) well point systems (including installation by bull gang and maintenance of); Off Road back dumps.

GROUP 5: Oiler

GROUP 6: Helicopter Pilot

a. PAID HOLIDAYS: New Years Day, Washington's Birthday Memorial Day, July 4th, Labor Day, Veteran's Day, Election Day, Thanksgiving Day, and Christmas Day, provided the employee works one day during the calendar week in which the holiday occurs.

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* ENGI0825-008 07/01/2025

ORANGE, ULSTER AND SULLIVAN COUNTIES

	Rates	Fringes
Power equipment operators:		
BUILDING CONSTRUCTION		
STEEL ERECTION		
GROUP 1	$ 70.24	37.50
GROUP 2	$ 68.58	37.50
GROUP 3	$ 61.29	37.50
GROUP 4	$ 58.63	37.50
GROUP 5	$ 57.10	37.50
GROUP 6	$ 53.34	37.50
GROUP 7	$ 65.74	37.50
BUILDING CONSTRUCTION TANK ERECTION		
GROUP 1	$ 69.96	37.50
GROUP 2	$ 68.37	37.50
GROUP 3	$ 64.85	37.50
GROUP 4	$ 61.28	37.50
GROUP 5	$ 54.07	37.50
OILOSTATIC MAINLINES AND TRANSPORTATION PIPE LINES		
GROUP 1	$ 62.35	37.50
GROUP 2	$ 60.70	37.50
GROUP 3	$ 58.56	37.50
GROUP 4	$ 57.06	37.50
GROUP 5	$ 53.34	37.50
GROUP 6	$ 64.28	37.50

NOTES:

Hydrographic Premium	50
Hazmat Premium	20%
Tunnel Premium	.75

STEEL ERECTION CLASSIFICATIONS

GROUP 1: Cranes (All Cranes, Land or Floating with Booms Including Jib 140 ft and over, Above Ground); Derricks, Land, Floating or Chicago Boom Type with Booms including Jib 140 ft and over above ground).

GROUP 2: Cranes (All Cranes, Land or Floating with Booms Including Jib Less Than 140 ft Above Ground); Derricks, Land, Floating or Chicago Boom Type with Booms Including Jib Less Than 140 ft above Ground).

GROUP 3: ""A"" Frame, Cherry Pickers 10 tons and under, Hoists Shall Also Include Steam, Gas, Desel, Electric, Air Hydraulic, Single and Double Drum Concrete, Brick Shaft Caisson, or Any Other Similar Type Hoisting Machines, Portable or Stationary, Except Chicago Boom Type; Jacks: Screw Air Hydraulic Power Operated unit or Console Type (not hand Jack or Pile Load Test Type); Side Booms.

GROUP 4: Aerial Platform used as Hoist; Compressor: 2 or 3 in Battery; Elevators or House Cars; Conveyors and Tugger Hosits; Chief of Party; Firemanp; Forklift; Generators (2 or 3); Maintenance (Utility Man); Rod Bending Machine (power); Welding Machines (Gas or Electric, 2 or 3 in Battery, Including Diesels); Captain: Power Boats: Tug Master: Power Boats.

GROUP 5: Compressor, Single; Welding Machine, Single, Gas,

Diesel, and Electric Converters of any Type: Welding System Multple (Rectifier Transformer Type); Generator, Single.

GROUP 6: Oiler

GROUP 7: Helicopter Pilot .

FOOTNOTE: a. PAID HOLIDAYS: New Years Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Election Day, Thanksgiving Day, and Christmas Day, provided the employee works one day in the calendar week during which the holiday occurs.

For BUILDING CONSTRUCTION TANK ERECTION CLASSIFICATIONS

NOTES: Tunnel Premium .75
Hazmat Premium 20%
Hydrographic Premium .50

TANK ERECTION CLASSIFICATIONS

GROUP 1: Operating Engineers on all Cranes, Derricks, ets with Booms Including Jib 140 ft or More Above Ground.

GROUP 2: Operating Engineer on all Equipment, Including Cranes, Derricks, ets with Booms Including Jib, Less Than 140 ft above the ground.

GROUP 3: Helicopter Pilot Engineer.

GROUP 4: Air Compressors, Welding Machines and Generators are Covered and are Defined as Cover: Gas, Diesel, or Electric Driven Equipment and Sources of Power from a Permanent Plant: ie: Staem, Comgressed Air, Hydraulic or Other Power, For The Operating of any Machine or Automatic Tools, Used In The Erection, Alteration, Repair and Dismantling of Tanks and Any and All ""Dual Purpose"" Trucks Used On The Construction Job Site, or in the Loading and Unloading of Materials, at the Construction Job Sited or in Conjuction with the Job Site.

GROUP 5: Oiler

FOOTNOTE:

a. PAID HOLIDAYS: New Years Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Election Day, Thanksgiving Day, and Christmas Day provided the Employee works one day in the calendar week during which the holiday occurs

For OILOSTATIC MAINLINES AND TRANSPORTATION PIPE LINE CLASSIFICATIONS

N0TES:
Hydrographic Premium .50
Hazmat Premium 20%
Tunnel Premium .75

OILSTATIC MAINLINES AND TRANSPORTATION PIPE LINES CLASSIFICATIONS

GROUP 1: Backhoe; Cranes (all types); Draglines, Front End Loaders (5yds. and over), Gradalls, Helicopters (co-pilot), Helicopters (Communication Engineer); Scooper (Loader and Shovel) Koehring; Trench Machines.

GROUP 2: ""A"" Frame; Backhoe (Combination Hoe Loader); Boring and Drilling Machines; Ditching Machines, Small, Ditchwitch, Vermeer or Similar type; Forklifts; Front End Loaders 92 yds. and over but less than 5 yds.); Graders, Finish (fine); Hydraulic Cranes 10 tons and under (over 10 tons) Cranes Rate Applies); Side Booms: Winch Trucks (Hoisting).

GROUP 3: Backfiller; Brooms and Sweepers; Bulldozers; Compressor (2 or 3 in battery); Chief of Party; Front End Loaders (under 2 yds); Generators; Giraffe Grinders; Graders and Motor Patrols; Machnic; Pipe Bending Machine (power);Tractors; Water and Sprinkler Trucks used on Job Site or in Conduction with Job Site); Welder and Repair Mechanic; Captain (power boats); Tug Master (power boats).

GROUP 4: Compressor (single); Dope Pots (Mechanical with or without Pump); Dust Collectors; Pumps (4 inch suction and over); Pumps (2 of less than 4 inche suction); Pumps, Diesel Engine and Hydraulic (immaterial of power); Welding Machines, Gas or Electric Converters of any type- 2 or 3 in Battery Multple Welders; Well Point Systems (including installation and Maintenance); Fram Tractors.

GROUP 5: Oiler, grease, gas, fuel and oil supply trucks; Tire repair and maintenance

GROUP 6: Helicopter Pilot

FOOTNOTE:

a. Paid Holidays: New Years Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Election Day, Thanksgiving Day and Christmas Day provided the Employee works one day in calendar week during which the holidays occurs.

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* IRON0417-001 07/01/2025

	Rates	Fringes
IRONWORKER	$ 42.63	53.70+a

a) Paid Holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Day after Thanksgiving (unpaid), Christmas Day.

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* LABO0017-002 06/01/2023

	Rates	Fringes
LABORER		
DUTCHESS COUNTY (Asbestos, lead, toxic and hazardous waste abatement and any other environmental related work): (BUILDING		

CONSTRUCTION)		
GROUP 1	$ 35.95	27.15
GROUP 2	$ 37.75	27.15
DUTCHESS COUNTY (Asbestos, lead, toxic and hazardous waste abatement and any other environmental related work): (HEAVY & HIGHWAY:)		
GROUP 2	$ 44.80	32.45+a
GROUP 3	$ 49.40	32.45+a
ORANGE AND ULSTER COUNTIES (BUILDING CONSTRUCTION:)		
GROUP 1	$ 35.95	27.15
GROUP 2	$ 37.75	27.15
GROUP 3	$ 40.50	27.15
ORANGE, ULSTER, AND SULLIVAN COUNTIES (HEAVY & HIGHWAY)		
GROUP 1	$ 40.80	32.45+a
GROUP 2	$ 44.80	32.45+a
GROUP 3	$ 49.40	32.45+a
GROUP 4	$ 54.70	32.45+a
TUNNEL, SHAFT & CAISSON WORK		
GROUP 1	$ 48.05	29.50+a

LABORERS BUILDING CLASSIFICATIONS

GROUP 1: Custodial work, flag person, portable generator tender, portable pump tender, pitman and dumpman, firewatch, temporary heat tender, temporary light tender, traffic control, tool room tender; Artificial turf, air chipping hammer acoustic pump and mixer, carpenter tender, concrete, concrete curb and sidewalk form setter, concrete form stripping, concrete sealing, concrete curing, concrete finisher, concrete vibrator, compressor, clean up after trades, dismantling demolition, excavation, fireproofing, foundation and building piping, pump and mixer, gunite, general clean up, grade checker, grading and backfilling, hoists, hod carrier, landscaping, mason tender, multi building trades tender, jackhammer, pavement breaker, poured gypsum roof work, power tampers, power walk behind roller, pressure blasting, power mixer, scaffolding, snow removal, signal person, sandblasting, styrofoam and similar installation, radio control equipment including but not limited to radio control tampers and rollers, radio control excavator, all erecting and dismantling of scaffold for masonry regardless of height, walking and riding power buggies, temporary weather protection, wrecking, waterproofing, stone and tile tenders, radio controlled hammers and breakers, unloading of trucks, air track, assembling and placing gabion baskets, asphalt, blaster, bob cat type machine for demo and clean up, chain link fence, chain saw, chipping hammer, concrete conveyor belt, saw, core drill, corrugated pipe, construction specialist, cleaning machine, concrete form setter, conduit layer, cutting torch, discharge pipe, drill chuck tender, duct bank layer, explosive handler, hydraulic splitter, granite or stone curbing, handler, joy and jib drill, Ingersoll Rand heavy duty crawler master type HCMZ drill machines or equivalent, laser level, nonmetallic pipe layer, metallic pipe layer, LeRoi hydraulic drill or similar, mega mixer, power fork lift, prestressed and precast concrete, power brush cutter, pump crete machine, retaining walls, rip rap,

retention and toxic and hazardous waste liners, setting of block, setting of block, setting of brick, setting of stone, sound barriers, transit under laborers jurisdiction, tow behind concrete or grout pump, traffic and pedestrian stripping, surface planner, manufactured curb, walk behind durface planner, wagon drill, welding; * asbestos abatement work, lead abatement work, toxic and hazardous waste related work; when protective equipment and clothing are not required.

GROUP 2: Forklift for masonry purposes

GROUP 3: Asbestos Abatement work, toxic and hazardous abatement, lead abatement work, environmental work.

BUILDING CLASSIFICATIONS

GROUP 1: Asbestos abatement work, lead abatement work, toxic and hazardous waste related work; when protective equipment and clothing are not required.

GROUP 2: Asbestos abatement work, toxic and hazardous abatement, lead abatement work, environmental work.

LABORERS HEAVY AND HIGHWAY CLASSIFICATIONS

GROUP 1: Flagperson, gateperson

GROUP 2: General laborers, chuck tender, handling and distributing drinking water, distributing all tools and supplies of laborers, nipper, powder carrier, magazine tender, warehouse laborers, concrete man, vibrator man, mason tender, mortar man, spraying, brushing and covering of concrete for curing and preservative purposes, traffic striper, scaffold builder, concrete crub and sidewalk from setter; permanent traffic striping and reflective devices, placing and maintenance of all flares, cones, lights, signs, barricades, traffic patterns, and all temporary reflective type materials for traffic control, custodial work, traffic directors, temporary heat or light tenders, tool room, dewatering pump men, pitman, dumpmen, snow removal and firewatch, asphalt man, joint setter, signal person, pipelayer, pipelining and relining, wellpoints, conduit and duct layer, wire puller rip rap and dry stone layer, steel rod carrier, core drill, rock splitter, Hilti gun air or electric, jackhammer, bush hammer, pavement breaker, chipping hammer, wagon drill, air track, jib rig, joy drill, gunite and sand blasting, coal passer and other machine operators, power tool operator, sprayer and nozzle man on mulching and seeding machine, all guard rail and fence, all seeding and sod laying, all landscape work, grade checker, all bridge work, walk behind self-propelled power saw, grinder, groover or similar type machine, walk behind tamper and roller of all types, salvage, stripping, wrecking and dismantling laborer (including barman, cutting torch and burner man), sheeting and shoring coming under laborers
jurisdicition, bit grinder, operator of form pin puller and drivers, sandblasting, joint and jet sealer, filling and wiring baskets for gabion walls, permanent sign man, median barrier,
sta-wall or similar type product, chain saw operator, railroad track laborer, waterproofer, pre-stressed and pre-cast concrete brick, block and stone pavers, power tools used to perform work usually done by laborers, power

buggy and pumpcrete operator, fireproof, plaster and acoustic pump, asbestos, toxic, bio-remediation, phyto-remediation, lead or hazardous materials abatement when protective clothing and equipment is not required, power brush cutter, retention liners, artificial turf, retaining walls, walk behind surface planer, welding related to laborers work, remote controlled equipment normally operated by laborers, all technician work including but not limited to stitching, seaming, heat welding, fireproof sprayer, mortar mixer, concrete finisher, form setter for concrete curbs and flatwork. Gunite nozzle man, stone cutters, granite stone layer, manhole, catch basin or inlet installing, lase men. Ground man on milling machine.

GROUP 3: Ingersoll Rand eavy duty crawler master type HCMZ any drill using 4"" or larger bit, asbestos, toxic, bio-remediation, phyto-remediation, lead or hazardous material abatement when protective clothing and equipment is required, all working foremen including grade, pipe, concrete, clearing, blacktop, drill, paving and blaster etc., Hydraulic drill or similar, forklift for masonry only, Blaster and asphalt screedman.

GROUP 4: Asbestos, toxic, lead or hazardous material abatement foreman.

HEAVY & HIGHWAY CLASSIFICATIONS

GROUP 1: Asbestos, toxic, bio-remediation, phyto-remediation, lead or hazardous material abatement; when protective equipment and clothing are not required.

GROUP 2: Asbestos toxic, bio-remediation, phyto-remediation, lead or hazardous material abatement when protective clothing and equipment is required.

FOOTNOTE:

PAID HOLIDAYS: New Years Day, Presidents's Day, Memorial Day, Independence Day, Labor Day, Election Day, Veterans Day, Thanksgiving Day, Christmas Day

TUNNEL, SHAFT & CASSION CLASSIFICATIONS

GROUP 1: Laborer, Pit and Dumpman, Chuck Tender, Brakeman and Powder; Miner and all mavhine men, Safety Miner, all shaft work, casson work, drilling, blow pipe, all air tools, tugger scaling, nipper gunniting srom pot to nozzle, bit grinder, singal man (top and bottom), shift steward, concrete man, shield driven tunnel, mixed face and soft ground liner plate tunnel in free air.

LABO0235-003 06/01/2025

DUTCHESS COUNTY

	Rates	Fringes
Laborers:		
BUILDING CONSTRUCTION		
GROUP 1	$ 41.10	32.90
GROUP 2	$ 42.22	32.90
GROUP 3	$ 43.45	32.90

LABORERS CLASSIFICATIONS (BUILDING)

GROUP 1: Mason tenders, carpenter tenders, laborer stripping and cleaning forms, laborer grading and digging ditches, sweepers, cleaners.

GROUP 2: Hod carriers, plasterers' tenders, scaffold builders (padlock and self-supporting scaffold 14 ft. or under all runways, mortar mixers) machine and hand, concrete mixers by machine under 21e, vibrators, form setters, asphalt rakers, handling reinforcement rods, drillers, jackhammer, operator, signalman, gunniting, motorbugs, water pump 2"" or under barco machine, wreckers, paving breakers, power saw operators, other machine operators.

GROUP 3: Blasters, Laser beam operator.

LABO0235-005 05/01/2023

DUTCHESS COUNTY

	Rates	Fringes
Laborers:		
HEAVY & HIGHWAY		
GROUP 1	$ 36.45	27.80+a
GROUP 2	$ 42.80	27.80+a
GROUP 3	$ 43.90	27.80+a

LABORERS CLASSIFICATIONS (HEAVY & HIGHWAY)

GROUP 1: Flagperson, placing and maintenance of all flares, cones, light, signs, barricades, traffic control, custodial work, traffic directors, temporary heat or light tenders, tool rooms.

GROUP 2: General Laborers, Dumpman, Pitman, Concrete Man, Signal Man, Pipelayer, Rip Rap, Dry Stone Layer, Jackhammer, Powderman, Highscalers, Power Buggy Operator, Steel Rod Carrier, Vibratory Operator, Other Machine Operator, Wrecking, Vibrator Operator-Compactor, Gunite and Sand Blasting, Water Pump 2"" or under, Nipper, Chucker, Asphalt Workers.

GROUP 3: Asphalt Raker, Asphlat Screeman, Drillers (all), Laser Beam Operator, Form Setter/Aligners, Blasters.

FOOTNOTE:
a. PAID HOLIDAYS: New Year's Day, Lincoln's Birthday, Good Friday, Washington's Birthday, November Election Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Thanksgiving Day and Christmas Day and Veteran's Day.

PAIN0009-004 05/01/2025

DUTCHESS, ORANGE, SULLIVAN and ULSTER COUNTIES

	Rates	Fringes
GLAZIER	$ 49.20	57.20

PAIN0155-003 05/01/2021

	Rates	Fringes
Painters:		
Drywall Finishers	$ 35.94	24.66
Lead Abatement Work	$ 35.94	24.66
Painter/Paperhanger	$ 35.94	24.66
Spray Rate	$ 36.94	24.66

PAIN0806-008 10/01/2024

DUTCHESS, ORANGE, SULLIVAN AND ULSTER COUNTIES

	Rates	Fringes
PAINTER		
Structural steel and Bridge	$ 56.25	55.14

PLUM0021-005 05/01/2025

ZONE 2

DUTCHESS COUNTY AND THE REMAINDER OF ULSTER COUNTY

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 60.66	45.35

PLUM0373-002 05/01/2025

ORANGE COUNTY Towns of Lakeville, Four Corners, Sterling Forest, Tuxedo Park, Southfields, Arden, Newburgh Junction, Greenwood Lake, Monroe, Harriman, Woodbury Falls, Woodbury, Woodbury Station, Central Valley, and the Palisades Interstate Park and Bear Mountain Park

	Rates	Fringes
Plumber; Steamfitter	$ 53.20	46.57
REFRIGERATION MECHANIC	$ 41.99	37.38

PLUM0373-003 05/01/2025

SULLIVAN COUNTY (Townships of Lumberland, Forestburgh, Highland, Tusten, Mamakating, Fallsburgh, Thompson, Bethel, Cochecton, Delaware, Freemont, Callicoon, Liberty, Monticello, Neversink and Rockland); ORANGE COUNTY (Remaining Townships) and ULSTER COUNTY (Towns of Shawangurk, Wawarsing, Plattekill, Marlboro and Ellenville up to Napanoch Prison)

	Rates	Fringes
Plumber; Steamfitter	$ 53.20	46.57

ROOF0008-002 05/01/2025

	Rates	Fringes
ROOFER	$ 50.25	32.62

SFNY0669-002 04/01/2025

	Rates	Fringes
SPRINKLER FITTER	$ 57.20	31.36

SHEE0038-001 07/01/2025

	Rates	Fringes
Sheet metal worker	$ 55.29	47.43

TEAM0445-001 05/01/2025

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 37.91	46.37+a
GROUP 1A	$ 39.03	46.37+a
GROUP 2	$ 37.35	46.37+a
GROUP 3	$ 37.13	46.37+a
GROUP 4	$ 37.02	46.37+a
GROUP 5	$ 36.90	46.37+a

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Labor Day, President's Day, Presidential Election Day, Veterans Day, Decoration Day, Independence Day, Thanksgiving Day and Christmas Day provided the employee works two days in any calendar week during which the holidays occurs.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Drivers on Letourneau tractors, double barrel euclids, Athey wagons and similar equipment (except when hooked to scrapers), I-beam and pole trailers, drivers of road oil distributors, tire trucks and tractors and trailers with 5 axles and over, Articulated Back Dumps and Articulated Water Trucks.

GROUP 1A: Drivers on detachable Gooseneck Low bed Trailers rated over 35 tons.

GROUP 2: Drivers on all equipment 25 yards and over, up to and including 30 yard bodies and cable dump trailers and powder and dynamite trucks.

GROUP 3: Drivers on all equipment up to and including 24 yard bodies, mixer trucks, dump crete trucks and similar types of equipment, fuel trucks, batch trucks and all other tractor trailers.

GROUP 4: Drivers on tri axles, ten-wheelers, grease trucks and tillermen.

GROUP 5: Drivers on pick-up trucks used for materials & parts, drivers on escort man over-the-road and drivers on straight trucks.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024

in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS - TABLE OF CONTENTS

BEACON HIGHWAY GARAGE ROOFTOP SOLAR ARRAY
CITY OF BEACON, DUTCHESS COUNTY, NEW YORK

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DIVISION 1 – GENERAL REQUIREMENTS

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1 Summary of work under this Contract.

1.2. SYSTEM DESCRIPTION

1.2.1. Beacon Highway Garage Rooftop Solar Array is a project located in the City of Beacon, Dutchess County, New York and it entails the installation of a solar array on the south-east roof of the Beacon Highway garage located at 30 Camp Beacon Road. Array shall be able to support an estimated 123,730 kWh per year usage by the highway garage**.** The Contractor will be responsible to provide all engineering designs and structural analysis by a NYS licensed professional, materials, labor, tools, electric power, construction equipment, and all other facilities, services and permits necessary for the proper execution and construction of work. Included in this work shall be acquiring all work permits from local, state or federal agencies, completing and filing of all necessary applications with Central Hudson, preparation of O & M Manual, testing of installed system, and system maintenance and data reporting for a five (5) year period, as called for in these specifications and bid documents.

The system should make maximum use of the surface area of the southeast-facing, tilted roof at the City's highway garage (30 Camp Beacon Road) and facilitate the distribution of energy not used on-site for use by other municipal facilities.

The highway garage is a municipally owned building constructed in December 2016. The roof section intended for the solar array location is a standing-seam metal, tilted roof with approximate dimensions of 240 feet by 46 feet.

The garage consumes an average of 123,730 kWh of electricity per year with one electricity meter. The desired rooftop array shall produce 100% of the annual kWh consumed by the building, with additional kWh to be distributed through a remote-crediting system to be established as part of this project.

Provider shall verify the structural capacity of the roof to support proposed roof-mounted solar panels, tracks and anchoring equipment, by procuring an engineer's evaluation regarding the weight to be installed, and whether an additional support structure is required.

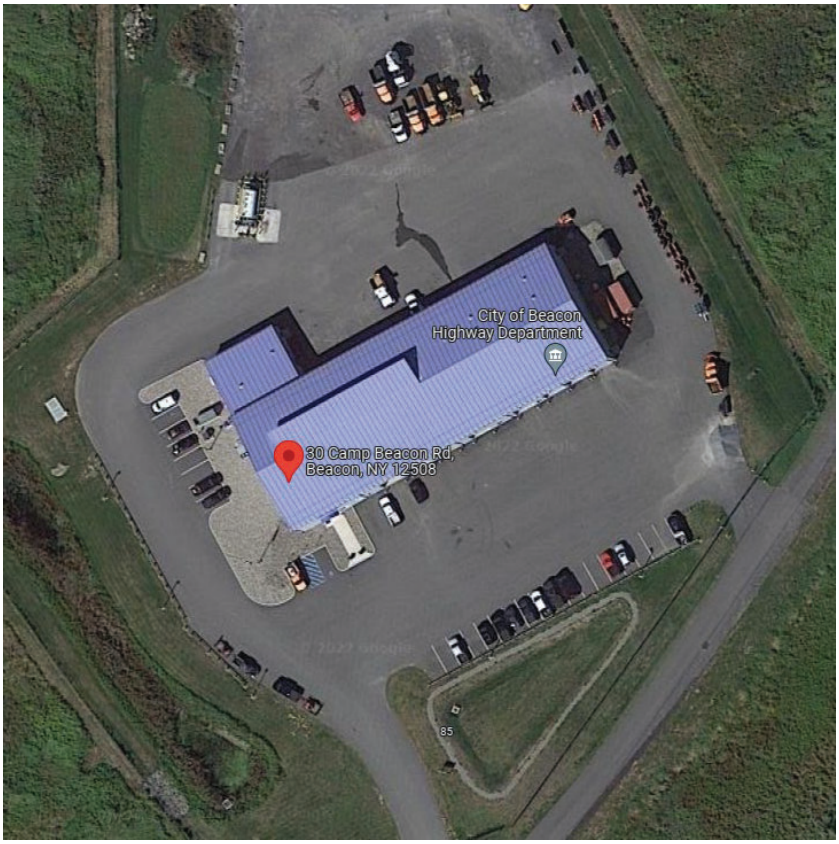
The Bidder shall be responsible for all connections and purchase agreements to the utility for systems that proposed to export power to the utility.

The City of Beacon will own the panels and the power generated by the system. The solar array must be a complete turnkey system, including permitting, Tier 1 solar panels, inverters, wiring, metering, controls, coordination and authorization, operation, rebate applications, grid connection agreement, all permits and approvals from governing agencies and all labor, taxes, services, equipment, etc.

Site:	Address:	Rooftop:	Est. Annual Energy Consumption:
City of Beacon Highway Garage	30 Camp Beacon Road, Beacon, NY 12508	Five-year-old southeast-facing metal roof (240'x46')	123,730 kWh



Southeast-facing roof at 30 Camp Beacon Road



Aerial view of 30 Camp Beacon Road

** END OF SECTION **

PART 1 GENERAL

1.1. WORK INCLUDED

1.1.1. Requirements describing the work to be done by others.

1.2. SYSTEM DESCRIPTION

1.2.1. **Prior to the commencement of construction, the contractor shall meet with all known public and private utility companies occupying or involved in the proposed project. The contractor, at this meeting(s), shall inform the utility companies of their schedule of operations and coordinate their work with these companies. The contractor shall keep minutes of the meeting(s) and shall submit them to the engineer.**

1.2.2. Work on certain existing utilities may be required to be done by the utility forces. The contractor shall coordinate this work with the utility authority having jurisdiction and schedule all such work.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements pertaining to cutting and patching as required to perform the work.

1.2. DEFINITIONS

1.2.1. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.

1.2.2. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other work.

1.3. QUALITY ASSURANCE

1.3.1. Structural Elements: DO NOT cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.

1.3.2. Operational Elements: DO NOT cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

1.3.3. Miscellaneous Elements: DO NOT cut and patch miscellaneous elements or related components in a manner that could change their load-bearing capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.

1.3.4. Visual Requirements: DO NOT cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in City's opinion reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

1.4. WARRANTY

1.4.1. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.

PART 2 PRODUCTS

2.1. MATERIALS

2.1.1. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance or in-place materials.

PART 3 EXECUTION

3.1. EXAMINATION

3.1.1. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.

3.1.2. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.

3.1.3. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.2. PREPARATION

3.2.1. Temporary Support: Provide temporary support of Work to be cut.

3.2.2. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

3.2.3. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

3.2.4. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.

3.3. PERFORMANCE

3.3.1. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

- Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

3.3.2. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original installer; comply with original installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions ro be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
5. Proceed with patching after construction operations requiring cutting are complete.

3.3.3. Patching: Patching construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
    a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
    b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance.
    a. Where patching occurs in a painted surface, apply primer and intermediate paint coats over patch and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
4. Ceiling: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.

3.3.4. Cleaning: clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for notifying utility owners and marking out existing utilities on the site.

1.2. SYSTEM DESCRIPTION

1.2.1. Contractor shall be responsible for protection of underground facilities in accordance with 16 NYCRR Part 753.

1.2.2. Prior to construction, contractor shall call the UFPO, and **notify in writing** owners of utilities and structures within the vicinity of the proposed work. Copies of written notification to utility owners shall be submitted to the engineer.

1.2.3. **Contractor shall provide the engineer with a list of all owners of utilities and structures contacted, including the time and date of contact and the names of responsible individuals contacted.**

1.2.4. Contractor shall be responsible for full mark out of existing utilities and structures sufficiently in advance of the work to allow for a field evaluation of the routing of the work. Contractor shall not proceed with work where utilities have not been located and marked by utility companies or others.

1.2.5. The contractor shall maintain the mark out of existing utilities and structures until the work in the vicinity of the marked out utilities and structures has progressed sufficiently in advance thereof that their location is no longer required.

1.3. SITE CONDITIONS

1.3.1. The locations of all utilities and structures as shown on the drawings are based on the best information available, but neither the owner nor the engineer guarantee the accuracy or completeness of the data.

1.3.2. Other utilities and structures may exist within the construction site in addition to those shown on the drawings.

1.3.3. House service utility lines may or may not be not shown on the drawings. The contractor shall be responsible for checking these services as to actual locations and possible interferences.

** END OF SECTION **

PART 1 GENERAL

1.1 SECTION INCLUDES

1.1.1. Requirements for determining measurement and payment of work in place and for determining measurement and payment of materials and equipment delivered but not incorporated in the work.

1.2 SYSTEM DESCRIPTION

1.2.1. The requirements in this section are supplementary to the General Conditions.

1.2.2. Unit Price Items and Unit Price Contracts.

1.2.2.1. Measurement of units of work for which payment will be made by unit prices will be defined in Part Four of the respective Sections for only those items of work which appear in the bid form.

1.2.2.2. Payment for the units of work will be determined by multiplying the unit prices stated within the bid, times the quantity of the unit of work as determined by the measurement provisions of Part Four of the respective Sections. Payment for the units of work shall fully compensate the contractor for furnishing all materials, labor, equipment, services, tools and all else incidental and necessary to complete the work.

1.2.3. Lump Sum Items and Lump Sum Contracts.

1.2.3.1. Measurement of quantities of work will be as indicated on the accepted schedule of values.

1.2.3.2. Payment for the quantities of work indicated in the accepted schedule of values will be at the prices stated in the accepted schedule of values, not to exceed the lump sum stated within the bid. Payment for the work to be performed under the lump sum shall fully compensate the contractor for furnishing all material, labor, equipment, services, tools and all else incidental and necessary to complete the work.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for preparing and submitting of required information for change orders.

1.2. SYSTEM DESCRIPTION

1.2.1. Requirements of this Section are supplemental to General Conditions.

1.2.2. Contractor shall provide such information as the Engineer may require for preparation of the change order including but not limited to the following:

1.2.2.1. Itemized description of the addition, deletion or revision in the work.

1.2.2.2. Itemized description of the change in the contract price including documentation.

1.2.2.3. Description of the change in the contract time. Time extensions shall be allowed only when conditions causing the delay are beyond the control of the Contractor. Any change in the contract time will only be effected when demonstrated that the approved project schedule has been implemented as described in the Section "Progress Schedules," of the General Conditions.

1.2.3. Change orders shall be in the form as indicated on Page L-1 of the Contract Documents.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for contractor to attend a preconstruction conference.

1.2. SYSTEM DESCRIPTION

1.2.1. This Section is supplemental to the general condition section "Preliminary Matters."

1.2.2. A preconstruction conference will be held at a time and location set by the Engineer to establish various procedures that will be followed for the duration of the construction period and to review the contractor's construction schedule and schedule of shop drawing and sample submissions.

1.2.3. The Engineer will preside at the preconstruction conference and will prepare for distribution minutes that describe the major topics of discussion.

1.2.4. In addition to the items that will be reviewed in accordance with general conditions, the preconstruction conference agenda will include but not be limited to:

1.2.4.1. Designation of contractor's responsible personnel and phone numbers to be used in event of an emergency during non-working hours.

1.2.4.2. Designation of Contractor's competent safety person that will be on the job as required by OSHA.

1.2.4.3. Disclosure of contractor's intended suppliers, vendors, fabricators and major subcontractors.

1.2.4.4. Contractor shall supply preliminary construction schedule as developed in accordance with Section 01310.

1.2.4.5. Contractor shall supply schedule of values for lump sum items.

1.2.4.6. Procedures for the implementation of field orders and change orders.

1.2.4.7. Contractor's insurance.

1.2.4.8. Procedures for contacting and requirements for providing access for local fire and first aid companies, police, bus companies and local traffic.

1.2.4.9. Site security.

1.2.4.10. Housekeeping.

1.2.4.11. Field offices.

1.2.4.12. Record drawings.

1.2.4.13. Job site coordination.

1.2.4.14. Protection of utilities.

1.2.4.15. Other topics pertinent to the work that may be presented by conference attendants.

1.2.5. Preconstruction conference attendants will be as follows:

1.2.5.1. Owner.

1.2.5.2. Engineer.

1.2.5.3. Contractor and major subcontractors.

1.2.5.4. Governmental agency representatives, utility owner representatives and other parties who may have control of, or may be affected by the work.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for preparing and submitting shop drawings and samples to Engineer for review.

1.2. SYSTEM DESCRIPTION

1.2.1. Requirements of this Section are supplemental to General and Special Conditions.

1.2.2. Contractor shall submit to the Engineer shop drawings, certified tests, and manufacturer's specifications for equipment and material being supplied under this Contract. Shop drawings shall also be submitted for piping, miscellaneous metal, structural steel, reinforcing steel, tools and furnishings, and all fabricated items. Samples of materials furnished by the Contractor to be incorporated in the work shall also be submitted. The Contractor shall submit this data with such promptness as to avoid delay in the work, allowing reasonable time for the engineer's review and approval.

1.2.3. Details on shop drawings submitted for review shall clearly show the relation of the various parts and, where the work depends upon field measurement, such measurements shall be obtained by the Contractor and noted on shop drawings before being submitted for review.

1.2.4. Drawings submitted by Subcontractors or manufacturers shall be sent directly to the Contractor for approval. The Contractor shall be responsible for their submission to the Engineer. **The Contractor shall thoroughly check all subcontractors' or manufacturers' shop drawings regarding measurements, sizes of members, materials and details to verify that they conform to the drawings and specifications and acknowledge same by so stamping and signing the drawings. Drawings found to be inaccurate or otherwise in error shall be returned by the Contractor for correction before submitting to the Engineer. Shop drawings not stamped and signed by the Contractor shall be returned for Contractor's stamp and signature prior to review by Engineer.**

1.2.5. The Contractor shall coordinate reviewed equipment shop drawings with shop drawings of related new and altered structures, including but not limited to connecting details, supports, piping, electrical and mechanical work to insure proper accommodation of the furnished equipment.

1.2.6. **Submissions shall be properly referenced to indicate clearly the specification section, drawing number, location, service and function of each particular item**. All submissions for one item or group of related items shall be complete. Where manufacturer's publications in the form of catalogs, pamphlets or other data sheets are submitted instead of prepared shop drawings, such submissions shall specifically indicate the item for which review is required. Identification of items shall be made in ink and submissions showing only general information are not acceptable.

1.2.7. All materials furnished by the Contractor to be incorporated in the work shall be subject to the review and inspection of the Engineer. No material shall be processed or fabricated for, or delivered to, or used for the work without prior review and approval by the Engineer.

1.2.8. Prior to beginning and during the progress of the work as required, the Contractor shall submit samples of materials for such specific tests as may be necessary to demonstrate that the materials conform to the specifications. Samples shall be furnished, taken, stored, packed and shipped where directed, at the expense of the Contractor.

1.2.9. Samples shall be packed so as to reach their destination in good condition, and shall be so labeled as to indicate the materials represented, the name of the facility or work and location for which the material is intended, and the name of the supplier submitting the sample. To ensure consideration of samples, the Contractor shall notify the Engineer by letter that the samples have been shipped, and shall properly describe the samples in the letter. In no case shall the letter of notification be enclosed with the samples.

1.2.10. The Contractor shall submit to the Engineer notarized certifications of compliance with the Contract Documents from all material suppliers.

1.2.11. The Engineer's review will be confined to general arrangement and compliance with the Contract Documents only and will not be for the purpose of checking dimensions, weights, clearances, fittings, tolerances, interferences or coordination of trades.

1.2.12. The Contractor is advised that color selections when required for items such as, but not limited to special coatings, glazed masonry block, resinous flooring, ceramic tile and the like will only be made by the Engineer when all samples and color chips for all such items are received. Contractor shall schedule his submission of these items to coincide as much as practical to allow the Engineer to coordinate the color selections.

1.3. SUBMITTALS

1.3.1. Submittals shall be a minimum of 8½" x 11" and a maximum size of 24" x 36".

1.3.2. For submittals up to and including 11" x 17", the Contractor shall submit four copies.

1.3.3. For submittals larger than 11" x 17", the Contractor shall submit the original tracings or reproducible reproductions or the tracings and four sets of prints. Reproducible reproductions shall be submitted with a matte finish working surface.

1.3.4. Submittals with inadequate information to allow evaluation or review will be returned for resubmission. Resubmission with additional data does not guarantee approval.

1.3.5. The Engineer will return two copies of shop drawings to the Contractor, bearing a stamp with the following language and marked appropriately:

___ NO EXCEPTION TAKEN ___ REVISE AND RESUBMIT

___ FURNISH AS CORRECTED ___ REJECTED SEE REMARKS

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications and does not authorize any changes involving additional cost. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

LANC & TULLY ENGINEERING AND SURVEYING, P.C.

Date _____ By _____

1.3.6. Copies returned marked "Approved" or "Furnish As Corrected" shall be for the Contractor's use and no additional copies need be submitted. Copies returned marked "Revise and Resubmit" shall be corrected by the Contractor and resubmitted in the same manner and number of copies as the original submission. Copies returned marked "Rejected See Remarks" do not conform to the design concept of the project or comply with the information given in the Contract Documents and shall not be resubmitted. New submittals shall be required.

1.3.7. Should the Contractor propose a revision to a previously submitted and reviewed shop drawing, the same shall be submitted in the manner and number of copies as the original submission. The resubmission shall clearly indicate, in a revision block, the date, description and location of the revision. The letter of transmittal shall state the reasons for the revision.

** END OF SECTION **

SECTION 01341
REVIEW OF CONTRACTOR'S CONSTRUCTION PROCEDURES

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for submitting Contractor's construction procedures for review.

1.2. SYSTEM DESCRIPTION

1.2.1. When submittal of any means, methods, sequences and procedures of construction is requested in the Contract Documents or by the Engineer, it will be for the purpose of informing the Engineer and the owner of the intended procedures of construction and will be in the context of the responsibilities of the Contractor, Owner and Engineer stated in the General Conditions.

1.2.2. The Engineer shall not be responsible to respond to the submittal of any means, methods, sequences and procedures of construction.

1.2.3. Submittals shall be made sufficiently in advance of the work to allow for Engineer's review.

1.3. SUBMITTALS

1.3.1. Contractor shall submit three copies of intended procedures of construction.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for protecting existing public and private property on or in the vicinity of the work site and the handling of claims and complaints arising as a result of the work.

1.2. SYSTEM DESCRIPTION

1.2.1. Requirements of this section are supplemental to General Conditions Section "Contractor's Responsibilities."

1.2.2. Contractor shall take all necessary precautions for the safety of and shall provide the necessary protection to prevent damage, injury or loss to all public and private property not designated for removal, relocation or replacement in the course of construction. The Contractor shall not damage or disturb existing or future structures adjacent to the construction easement.

1.2.3. During construction, if it is necessary to temporarily remove any existing services, they shall be reconnected the same day or temporary services shall be provided. **Affected owners shall be notified 48 hours prior to disruption of service.**

1.2.4. Contractor shall protect the natural vegetation and other existing landscape features and surroundings. Where practical, trees shall be protected to the drip-line as shown in the Standards for Soil Erosion and Sediment Control as published by the State Soil Conservation Committee. If damage occurs to a tree's root system within the drip-line, the tree shall be pruned accordingly using accepted tree surgery techniques to compensate for the loss of root system. Damages to tree trunks, limbs, bark and roots shall be repaired using accepted tree surgeon methods.

1.2.5. All grass areas beyond the construction limits damaged by the Contractor shall be repaired using seeding methods and materials equal to or better than that which existed prior to construction.

1.2.6. Where damage or injury or loss is done to public or private property as a result of the Contractor's execution of the work, such property shall be restored by the Contractor at his expense to a condition equal to or better than that existing prior to the damage.

1.2.7. Where property has existing damages that cannot be clearly verified by the preconstruction photographs or video tapes previously submitted, the nature and extent of such damages shall be documented and submitted to the Engineer prior to any construction or construction related activity.

1.2.8. Damages to curbs, sidewalks, driveways, lawns, shrubbery, property, monuments or other property that are not documented as pre-existing and do not show on the preconstruction photographs or video tapes, will be viewed as a result of the Contractor's execution of the work and shall be repaired in a manner acceptable to the Engineer. The Contractor shall, at his own expense, take such additional photographs as may be required to document damage which exists prior to construction.

1.3. QUALITY ASSURANCE

1.3.1. Survey markers removed or disturbed by the Contractor's Operations shall be reset by a Licensed Land Surveyor registered in the State of the project. Such surveyor shall certify to the Owner that reset markers are located at the same location and/or elevation as they were prior to their removal or disturbance.

1.3.2. The Contractor shall expeditiously and satisfactorily resolve all claims and complaints arising as a result of work under this Contract. The Contractor shall provide the services of an authorized representative during normal working hours for the purpose of handling all such claims and complaints. A file shall be maintained to log all claims and complaints and shall include the date and time, person filing the claim or complaint, nature and extent of the claim or complaint, and its resolution. The Contractor must advise the owner monthly in writing of all such claims and complaints received by him including the status of each and for each claim or complaint that has been secured by his insurance company, proof that such has been done.

1.3.3. The Contractor shall pay for all costs to handle and resolve all claims or complaints. If within 30 days of receipt of a complaint, the Contractor fails to settle or secure any claim or complaint, the owner may retain such amounts of money from payments that would otherwise be due the Contractor as, in the opinion of the owner, may be required to settle all claims filed with the owner.

1.4. SUBMITTALS

1.4.1. The Contractor will submit to the Engineer lists of damages to property that exist prior to construction or construction related activity. The list shall include the following information:

- Location of damage by station or address
- Nature of damage
- Extent of damage
- Color photographs of damage

1.4.2. Lists shall be submitted sufficiently in advance in order that the Engineer can verify the damages.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for properly delivering, storing and handling products.

1.2. SYSTEM DESCRIPTION

1.2.1. Products shall be delivered, stored and handled in a manner that will assure preservation of quality and fitness for incorporation in the work.

1.2.2. As and if required products shall be protected from the elements during storage by providing sheltered, weather-tight enclosures. Skids or platforms shall be provided for products subject to damage by contact with ground.

1.2.3. Packaged materials shall be stored in their original packages or containers with weather resistant tags identifying the package contents, manufacturer's name and Contractor's name.

1.2.4. **Copies of all delivery tickets, vendor tickets, bills of lading and other records shall be given to the Engineer or construction observer at the time of delivery and shall contain the name of supplier, material delivered, quantity of material, date of delivery and project name.**

1.2.5. If partial payments have been made for products or equipment suitably stored off-site, the Contractor shall provide certificates of insurance for full replacement value of the products or equipment.

1.2.5.1. Unless otherwise specified, the Contractor shall provide insurance to hold harmless the Owner and Engineer against liability claims and judgements or demands for damages arising from accidents to persons or property occasioned by transportation, handling and storage or products or equipment. A certificate shall be provided prior to shipping.

1.2.6. The Contractor shall comply with manufacturer's recommendations concerning periodic maintenance requirements for items stored for extended periods.

1.2.7. Equipment or materials shall not be stored on the site in such a manner as to interfere with the Owner's operation, create obstructions that would endanger the public, or interfere with the work. Equipment and material shall not be stored within 100 feet of any intersection, or on any sidewalks.

1.2.8. Solar panels, rail systems, conduit, raceways, heavy equipment, lifts, solar array components, wiring, appurtenances, and all other construction materials shall not be stored or stockpiled on public thoroughfares or adjoining rights-of-way more than one day in advance of their intended incorporation into the work. In no case shall any material be stored or stockpiled outside of the rights-of-way or easements or on private property without the written permission of the property owner. A copy of said written permission shall be supplied to the City of Beacon. Materials stored on site shall be in a location designated by the Beacon Highway Superintendent so as to ensure that the operations of the highway department and its personnel are not impeded from performing the duties and tasks.

** END OF SECTION **

PART 1 GENERAL

1.1. SECTION INCLUDES

1.1.1. Requirements for the furnishing of documentation by contractor that are prerequisites to contract closeout.

1.2. SYSTEM DESCRIPTION

1.2.1. The information in this section is supplemental to General Conditions for submissions made by the contractor for contract closeout and final payment.

1.3. SUBMITTALS

1.3.1. Submissions shall include but not be limited to the following:

1.3.1.1. Consent of surety attesting to the fact that the surety has examined the contractor's records and the surety concludes that all payrolls, materials bills, and outstanding indebtedness in connection with the contract have been paid.

1.3.1.2. Contractor's release waiving all claims against the owner other than those previously made in writing and still unsettled.

1.3.1.3. Maintenance bond, if required.

1.3.1.4. Completed operations insurance certificates as required in General Conditions.

1.3.1.5. A list from contractor's insurance company indicating status of claims of damages arising from the work. List shall include claimant's name, nature of damage and disposition.

1.3.1.6. A list indicating the disposition of claims of damages arising from the work, not designated as insurance claims.

1.3.1.7. Evidence satisfactory to the Engineer that deficiencies, as noted by permitting agencies or any other body having jurisdiction over the work, have been satisfactorily completed.

1.3.1.8. Extended warranties if required in the individual specification sections.

** END OF SECTION **

SECTION 01730
OPERATION AND MAINTENANCE MANUAL

PART 1 GENERAL

1.1. SUMMARY

1.1.1. This section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:

a. Operation and maintenance documentation directory.
b. Emergency manuals.
c. Operation manuals for systems, subsystems, and equipment.
d. Maintenance manuals for the care and maintenance of products, materials, and finishes and systems and equipment.

1.2. DEFINITIONS

1.2.1. System: An organized collection of parts, equipment, or subsystems united by regular interaction.

1.2.2. Subsystem: A portion of a system with characteristics similar to a system.

1.3. SUBMITTALS

1.3.1. Submit two copies of each manual in final form at least 15 days before final inspection. Engineer will return copy with comments within 15 days after final inspection.

1.3.2. Correct or modify each manual to comply with engineer's comments. Submit 3 copies of each corrected manual within 15 days of receipt of Engineer's comments.

1.4. COORDINATION

1.4.1. Where operation and maintenance documentation includes information on installations by more than one factory-authorized service representative, assemble and coordinate information furnished by representatives and prepare manuals.

PART 2 PRODUCTS

2.1. OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY

2.1.1. Organization: Include a section in the directory for each of the following:

a. List of documents.

b. List of systems.
c. List of equipment.
d. Table of contents.

2.1.2. List of Systems and Subsystems: List systems alphabetically. Include references to operation and maintenance manuals that contain information about each system.

2.1.3. List of Equipment: List equipment for each system, organized alphabetically by system. For pieces of equipment not part of system, list alphabetically in separate list.

2.1.4. Table of Contents: include a table of contents for each emergency, operation, and maintenance manual.

2.1.5. Identification: In the documentation directory and in each operation and maintenance manual, identify each system, subsystem, and piece of equipment with same designation used in the contract documents. If no designation exists, assign a designation according to ASHRAE Guideline 4, "Preparation of Operating and Maintenance Documentation for Building Systems."

2.2. MANUALS, GENERAL

2.2.1. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:

a. Title page
b. Table of contents
c. Manual contents

2.2.2. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:

a. Subject matter included in manual
b. Name and address of Project
c. Name and address of Owner
d. Date of submittal
e. Name, address, and telephone number of Contractor
f. Name and address of Engineer(s)
g. Cross-reference to related systems in other operation and maintenance manuals

2.2.3. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.

a. If operation or maintenance documentation requires more than one volume to accommodate data, include comprehensive table of contents for all volumes in each volume of the set.

2.2.4. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into s single binder.

2.3. OPERATION MANUALS

2.3.1. Content: In addition to requirements in this section, include operation data required in individual specification sections and the following information:

1. System, subsystem, and equipment descriptions.
2. Performance and design criteria if Contractor is delegated design responsibility.
3. Operating standards.
4. Operating procedures.
5. Operating logs.
6. Wiring diagrams.
7. Control diagrams.
8. Piped system diagrams.
9. Precautions against improper use.
10. License requirements including inspection and renewal dates.

2.3.2. Descriptions: Include the following:

1. Product name and model number
2. Manufacturer's name
3. Equipment identification with serial number of each component
4. Equipment function
5. Operating characteristics
6. Limiting conditions
7. Performance curves
8. Engineering data and tests
9. Complete nomenclature and number of replacement parts

2.3.3. Operating Procedures: Include the following, as applicable:

1. Startup procedures
2. Equipment or system break-in procedures
3. Routine and normal operating instructions
4. Regulation and control procedures
5. Instructions on stopping
6. Normal shutdown instructions
7. Seasonal and weekend operating instructions

8. Required sequences for electric or electronic systems
9. Special operating instructions and procedures

2.3.4. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.

2.3.5. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.4. PRODUCT MAINTENANCE MANUAL

2.4.1. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.

2.4.2. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project manual.

2.4.3. Product Information: Include the following, as applicable:

1. Product name and model number
2. Manufacturer's name
3. Color, pattern, and texture
4. Material and chemical composition
5. Reordering information for specially manufactured products

2.4.4. Maintenance Procedures: Include manufacturer's written recommendations and the following:

1. Inspection procedures
2. Types of cleaning agents to be used and methods of cleaning
3. List of cleaning agents and methods of cleaning detrimental to product
4. Schedule for routine cleaning and maintenance
5. Repair instructions

2.4.5. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

2.4.6. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

1. Include procedures to follow and required notifications for warranty claims.

2.5. SYSTEMS AND EQUIPMENT MAINTENANCE MANUAL

2.5.1. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturer's maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.

2.5.2. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project manual.

2.5.3. Manufacturers' Maintenance Documentation Information: Manufacturers' maintenance documentation including the following information for each component part or piece of equipment:

1. Standard printed maintenance instructions and bulletins
2. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly
3. Identifications and nomenclature of parts and components
4. List of items recommended to be stocked as spare parts

2.5.4. Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:

1. Test and inspection instructions
2. Troubleshooting guides
3. Precautions against improper maintenance
4. Disassembly; component removal, repair, and replacement; and reassembly instructions
5. Demonstration and training videotape, if available

2.5.5. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.

2.5.6. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturer's maintenance documentation and local sources of maintenance materials and related services.

2.5.7. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

1. Include procedures to follow and required notifications for warranty claims.

PART 3 EXECUTION

3.1. MANUAL PREPARATION

3.1.1. Operation and Maintenance Documentation Directory: Prepare a separate manual that provides an organized reference to emergency, operation, and maintenance manuals.

3.1.2. Emergency Manual: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by Owner's operating personnel for types of emergencies that could occur.

3.1.3. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.

3.1.4. Operation and Maintenance Manual: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.

3.1.5. Drawings: Prepare drawings supplementing manufactures' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in Record Drawings to ensure correct illustration of completed installation.

** END OF SECTION **

DIVISION 16 – ELECTRICAL

PART 1 GENERAL

1.1. Work Included

1.1.1. The work to be done by the Contractor shall consist of furnishing all labor, materials and equipment necessary or required to provide a complete operating photovoltaic electrical system, etc., as intended which is described herein the contract and specifications.

1.1.2. The Contractor and his subcontractor shall be presumed to have fully apprised himself of all conditions pertaining to the work.

1.1.3. These specifications explain in detail all work to be done. Minor details not specifically mentioned in these specifications, but necessary to secure a workmanlike job and prior operations, shall be provided by the Contractor.

1.1.4. The work in general includes but is not limited to that which is described below.

- Furnishing and installation of a photovoltaic electrical system on the south-east roof of City Highway Garage complete with metering and grounding facility.
- Furnishing and installation of conduits and wiring to existing electrical panels.
- Installation of power inverters and control panels, real-time monitoring system display within the building.
- Furnishing and installation of grounding system.

1.2 Codes, Standards and Permits

1.2.1. All work shall be in accordance with the requirements of Federal, State and Local agencies; public utility companies and Underwriter's Laboratories, and shall comply with local codes. Where a conflict in code requirements is encountered, the most stringent shall apply. A sample of the more explicit codes follows

- 2020 NYS Building Code
- 2020 NYS Fire Code
- Latest National Electric Code
- National Fire Protection Association
- Underwriter's Laboratories
- NYS Energy Conservation Construction Code
- Occupation Safety and Health Act (OSHA)

1.2.2. Apply for and obtain all required permits and Underwriter's inspection. Pay all fees.

1.3. Guarantees

1.3.1. **The contractor shall submit a written guarantee to include all systems, materials, and workmanship for a period of five years from the date of final acceptance. The warranty shall cover all components of the generating system against breakdown and degradation in electrical output of more than 10% from the original rated electrical output. The warranty shall cover the full costs, including labor, repair, and replacement of defective components or systems. The contractor is responsible for providing warranty coverage in a timely manner regardless of the level of support from the equipment manufacturer. Requests for warranty services shall be responded to within 72 hours and repairs completed within 30 days. The contractor shall also provide the City with information on any additional or extended warranties that may be applicable.**

The operation of the equipment by the Owner does not constitute an acceptance of the work. The work will be accepted only after the Contractor has properly adjusted his equipment; demonstrated that it fulfills the requirements of the drawings and specifications; operated it satisfactory for sufficient period of time, and has furnished all the required certificates.

The guarantee period will begin on the date the contractor receives written notice of acceptance by the Owner and/or Engineer.

Upon notice by the Owner of failure of any part of the guaranteed equipment of systems during the guarantee period, the affected part, or parts, and damages resulting therefrom, shall be replaced, or repaired promptly by, and at the expense of, the Contractor, and at the convenience of the Owner.

1.4. Shop Drawings

1.4.1. Provide shop drawings of all systems and equipment, unless otherwise specified. The term "shop drawings", as used herein, shall mean all manufacturer's brochures, catalog cuts, wiring diagrams, installation manuals, shop fabrication drawings, or any such materials used to described the system or requirement being submitted for approval.

1.4.2. All drawings shall be submitted sufficiently in advance of field requirements to allow reasonable time for checking and no claim for extension of contract time will be granted by reason of failure in this respect. All submittal shall be completed and shall contain all required and detailed information.

1.4.3. Submit five copies of shop drawings. The Engineer will keep three copies and two copies will be returned to the Contractor.

PART 2 PRODUCTS AND INSTALLATION

2.1. Materials

2.1.1. Each piece of material needed to complete the work shall be new, free from material defects, perfect in operation, and installed as per the manufacturers' recommendations. Each piece of equipment shall be complete with all parts, accessories, trimmings, connections, etc., as specified, and when not specified in detail, it shall be as shown in the manufacturer's current catalog, or as may be necessary for its proper performance.

2.2. Cutting, Patching and Painting

2.2.1. All cutting and patching required to perform work shall be provided by the Contractor and patching shall be provided as required to match existing surfaces. Where work is being performed on surfaces that require painting by the general contractor, the general contractor will provide the painting, providing the work is installed in time. Conduit openings in the existing structures shall be core drilled. Space around conduits in core drilled opening shall be sealed watertight.

2.3. Galvanized Rigid Steel Conduit

2.3.1. Mild steel, hot-dipped galvanized with zinc-coated interior and exterior, smooth circular bore, threaded. Pipe and coupling threads shall be zinc-coated after cutting and chamfering. All conduits shall be equal to those manufactured by Walker Company.

2.3.2. All wiring shall be installed in the galvanized rigid steel conduit.

2.4. Conduit Hanger

2.4.1. Hangers shall be as manufactured by Crane, Grinnel, Kindorf, or equal.

2.4.2. Furnish and install all hangers, anchors, guides, and supports to properly support conduit to control anchorage, and prevent sway and vibration. Conduit shall be so supported as not to place strain on the equipment.

2.5. Boxes

2.5.1. Outlet, switch, junction, and small pullboxes shall be galvanized steel with mounting lugs (or ears) for covers, knockouts for conduit terminations. Junction boxes installed outdoors shall be rated NEMA-4. Pullboxes installed below grade shall be cast iron, watertight construction.

2.6. Conduit Installation

2.6.1. All conduits must be continuous from outlets to cabinets. Pull or junction boxes. Conduits must secured with lock nuts and bushings in such a manner that each system will be electrically continuous throughout. Conduit ends must be capped with approved caps or seals to prevent entrance of foreign materials during construction. Conduits must be swabbed out before insertion of conductors.

2.6.2. Leave fish wire (nylon line) in all conduits where permanent wiring is not installed. Tag each end.

2.6.3. All couplings used on grade floor slabs, in exterior below grade walls, butted in earth with or without concrete encasement, must be of the threaded type. Each end of conduit must be threaded, and coupling must be taken up tight.

2.6.4. Penetrations through walls or floor slabs shall be made using a core drill. Space around the conduit shall be filled gas-tight.

2.6.5. Conduits below grade shall be bitumastic coated and shall be installed at least 2 ft. below finished grade.

2.7. Not Applicable

2.8. Wiring

2.8.1. No wire smaller than #12 may be used for any branch circuit.

2.8.2. All conductors must be 600 volt, Type THWN, in all areas except as otherwise noted.

2.8.3. All conductors must be copper, and conform to latest requirements of the NEC, and be UL listed for the location used. Conductors must be manufactured in accordance with latest ASTM standards for soft or annealed copper wire.

2.8.4. Identify all wiring by number and size in pullboxes and the gutters of all panels to which they connect with pre-marked, self-adhesive, wrap-around tape.

2.8.5. Install markers so that they are easily read without moving adjacent conductors.

2.8.6. Label high voltage leg "orange" as per NEC Code.

2.8.7. Furnish and install separate grounding wire for each panel, piece of equipment, and circuit.

2.9. Disconnects

2.9.1. Provide disconnects at all locations as per the National Electric Code. Disconnect switches shall be heavy-duty, size and fused or unfused.

2.9.2. Disconnect switches installed outdoors shall be NEMA-4X - stainless steel. Disconnect switches installed indoors in damp or wet areas shall also be NEMA-4X.

2.9.3. Fused disconnect switches area to contain current limiting CLF (Time Delay Type).

2.10. Grounding Systems

2.10.1. All systems shall be grounded by connecting a green covered conductor from the ground bus in the power panelboard through starter to a ground terminal connector brazed to the motor base.

2.10.2. Install grounding conductor with the motor conduit conductors and extend through a grommeted terminal box opening to the ground terminal.

2.10.3. Connect feeder grounding conductors to ground bus in panelboards with ground connector and to conduit grounding bushings.

2.10.4. The grounding electrode will be a network of ground rods.

2.10.5. The system ground conductor will be insulated, run in rigid, threaded conduit and terminated in non-ferrous fittings, bonded at both ends. Separate ground wire shall be installed for each circuit and panel.

2.10.6. When using green field or EMT with compression fittings, a separate ground wire must be run to insure ground continuity.

2.10.7. Ground rod-steel core, copper-jacketed steel alloy core with a molten-welded covering and conical point chamfered at the top to prevent mushrooming during driving.

2.10.8. All grounding shall conform to NEC.

2.11. Lightening Arresters

2.11.1. Lightening arresters shall be provided and installed in the main entrance panel. Arresters shall be secondary type with air gap to bleed off excessive voltages, 250/500 voltage class. For interior or exterior mounting.

2.12. Testing and Startup

2.12.1. Upon completion of the work, the Contactor shall test all wiring and equipment for proper operation to the satisfaction of the Engineer. The Contractor shall furnish to the Owner and Underwriter's Certificate indicating that the work is completed in accordance with the requirements of the National Electrical Code, current edition.

2.12.2. All systems shall test free from short circuits and grounds, shall be free from mechanical and electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than that required by the National Electrical Code.

2.12.3. Test all circuits for proper neutral connections.

2.12.4. After the electrical installation is complete, the Contractor shall test all circuits, buses, and equipment for freedom from grounds and short circuits before energizing. All cable shall be tested, using a megohmeter; and cables of higher voltage rating shall be tested using a D.C. high potential tester. Equipment shall be energized only after said tests have been conducted, and test results evaluated.

2.13. Clean-Up

2.13.1 The Contractor shall be responsible for cleaning up the debris, rubbish, etc., generated by his own operation. He shall clean up the site on a daily basis and periodically as directed by the Engineer.

END OF SECTION

Photovoltaic Modules, Inverters, and Mounting

Part 1 – General

1.1 System Description and Scope of Work

a. This work scope is for a grid connected photovoltaic system consisting of roof mounted photovoltaic modules and interactive power inverters.

b. All labor, material and equipment necessary to meet the functional intent of the system, shall be provided by the photovoltaic system contractor with qualifications as specified below. Equipment and labor not specifically referred to herein or on the plans, which are required to meet the functional intent or code requirements, shall be provided without additional cost to the Owner.

c. Detailed computer simulation based on shading analysis shall be submitted showing that the proposed array is not shaded or limited shading by rooftop obstructions.

d. Detailed computer Solar System One Line Drawing shall be submitted showing proposed solar panel array layout and wiring layout for the exterior and interior of the building for the proposed project.

e. Mounting Structure Delegated Design: The photovoltaic contractor shall mount the photovoltaic array using pre-manufactured components. **System array and all components shall be mounted to standing seam metal roof by specialized clamps for standing seam roofs. Penetrations into existing metal roof shall be avoided at all costs.** Depending on the actual module size and quantities, the installing contractor shall consult with the mounting system manufacturer and a qualified structural professional engineer to design a mounting system using acceptable structural engineering practices. Application for utility Connection: Complete the standardized NYS Interconnection Contract and Application for Generation Equipment from Central Hudson Gas & Electric Corporation. Also meet all the requirements of the New York State Interconnection Requirements and certified equipment list, as well as any NYSERDA requirements.

1.2 Submittals

a. Product Data: For each type of photovoltaic module and inverter indicate features, performance, electrical ratings, operating characteristics.

b. Electrical Drawings: For each photovoltaic module, inverter, and mounting system component include dimensioned plans, elevations and sections.

1. Show wiring entry location and sizing, mounting arrangements, and details including required clearances and service space around equipment.

2. Show layout of photovoltaic array with dimension and obstacles of the rooftop area.

3. Include drawings, data, and quantities of each type of component used in the structure.

4. Provide a professional engineer's stamp indicating that the design was completed by a qualified professional.

5. Provide schematic wiring diagrams for power, signs, and control wiring of the inverters.

6. Provide system wiring schematic showing module connections, number of modules per string, number of strings per inverter, system grounding, and connections to building AC power system.

7. Submit proposed method to make module interconnecting cables "Not Readily Accessible" in accordance with NEC 690.

8. **System shall be designed in accordance with NEC, 2020 NYS Building Code, 2020 NYS Fire Code, and NYSERDA requirements.**

1.3 Calculations

a. Submit calculations and data verifying that the photovoltaic arrays provided are compatible with inverters provided.

   1. Verify the maximum inverter voltage is not exceeded at -10°F module surface temperature.

   2. Provide a computer generated shading analysis of proposed photovoltaic system. The shading report shall describe the percentage of the available solar resource the solar electric array will receive, accounting for losses from shading, array azimuth, and tilt. Total solar resource fraction (TSRF) shall be 70% or better.

   3. Provide expected output calculations of proposed photovoltaic system using PV Watts, or other NYSERDA approved software.

b. Operation and Maintenance Data: For photovoltaic modules, inverters and mounting systems including emergency, operation, and maintenance manuals.

1.4 Warranty

Manufactures standard form in which manufacturer agrees to repair or replace components that fail in materials, workmanship, or performance within the specified warranty period. Contractor

a. Photovoltaic Modules

    1. Material defects and workmanship: Five years from date of final acceptance.

    2. Power Output: The manufacturer shall warrant module power output for a total of 25 years from date of final acceptance. The warranty shall guarantee that modules will produce 90% of their rated power output from the first 12 years and 80% of the rated power output for the remaining years of the 25 year warranty.

b. Inverters: Manufacturer shall warrant product to be free material and workmanship defects for 10 years from date of final acceptance.

c. Photovoltaic Mounting System: Manufacturer shall warrant all components to be free material and workmanship defects for 10 years from date of final acceptance.

Part 2 – Products

2.1 Photovoltaic Modules

a. All solar electric modules must be certified as meeting all applicable standards of the Institute of Electrical and Electronics Engineers (IEEE) and UL 1703 and detailed in the California energy Commission (CEC) eligible list.

b. Module Connector: minimum #12 AWG wiring of sufficient length to interconnect modules with locking connectors (NEC Section 690). Wiring shall be listed and labeled as photovoltaic wire to be exposed in outdoor locations per NEC.

c. Construction: Weather-tight anodized Aluminum Frame and surface textured tempered glass to improve light absorption.

    1. Module must be capable of withstanding a wind load of 50psf or greater.

d. Bypass Diode: Each module shall have at least one bypass diode to minimize power drop due to partial shading.

e. Marking: In accordance with NEC Section 690, each module should include:

    1. Open circuit voltage
    2. Operating voltage
    3. Maximum permissible system voltage
    4. Operating current
    5. Short circuit current
    6. Maximum power

2.2 Utility Interactive Power Inverter

a. All inverters must be certified as meeting all applicable standards of IEEE and UL and approved by the IOU that the system will be interconnected to.

b. AC to DC Inverter size: The rated continuous inverter DC input power shall be minimum of 110% of the nominal PV array output power to STC.

    1. Rated inverter DC input power is not the maximum recommended photovoltaic size indicated by the manufacturer. For the purposes of this requirement, rated continuous inverter DC input power shall be calculated as (Max Continuous AC Output Power divided by Inverter Efficiency).

c. Inverter Description: Utility interactive inverter shall be designed to automatically match phase angle and voltage of the utility line to which it is connected. The inverter shall use PWM technology and a low frequency transformer to generate a true sine wave with greater than 0.95 power factor and less than 4% total harmonic distortion. In accordance with NEC 690 the inverters shall automatically de-energize its electrical production upon loss of utility voltage.

d. Photovoltaic maximum Power Point tracking: Inverter shall contain a high efficiency DC to DC converter and a control system to continuously vary photovoltaic array voltage and maintain the system at its maximum power point regardless of changing weather conditions.

    1. Maximum power point tracking shall operate over the entire range of maximum power point string voltages that will be generated between module surface temperatures of 10°F and 158°F based on actual modules provided.

e. Integral DC Disconnect: Inverter shall have integral DC disconnect to disconnect only the positive (ungrounded) conductors of all photovoltaic strings from the rest of the building in accordance with NEC 690. Operation of the disconnect switch shall not result in conductors becoming ungrounded.

f. Rapid Shutdown: System shall be provided with Rapid Shutdown located on the exterior of the building. Rapid Shutdown shall be in accordance with Article 690 of the NEC.

g. Fused String connections: Each inverter shall have multiple fused connection terminals to accept all parallel photovoltaic strings which serve it.

    1. Inverter shall have the appropriate quantity of string connections based on actual photovoltaic array provided.

    2. Each string connection shall have an individual fuse in accordance with NEC 690. Provide sting fuses as required based on module manufacturer.

h. Ground Fault protection: Each inverter shall be equipped with integral ground fault detection and interruption device in accordance with NEC 690.5. The inverter shall interrupt the ground fault current, shut down, and provide visual fault indication upon detection.

i. Grounding: Each inverter shall contain terminals for DC equipment grounding, AC equipment Grounding and a DC grounding electrode connection in accordance with NEC 690.

j. LCD Display: Each inverter shall have an integral LCD display showing a minimum:

1. Operating Mode
2. DC Voltage
3. AC Voltage
4. AC Power Output
5. AC Frequency
6. All fault messages

k. Utility Back feed: Electrical Design of inverter shall ensure that back feed current for the utility to the photovoltaic array is not possible.

l. Inverter Cooling: Inverter shall be designed with sufficient passive or active cooling to allow operation between 4 degrees F and 104 degrees F ambient temperatures.

2.3 Photovoltaic Mounting Systems:

Subject to compliance with requirements, system and components **shall be mounted to standing seam metal roof through the use of specialized clamping units. Penetration of metal roofing system shall be avoided at all costs.**

a. Construction: Anodized Aluminum construction with stainless steel fasteners.

b. System components: In addition to all components necessary to meet the requirements of this contract, the photovoltaic mounting system shall include module mounting clips designed to securely fasten photovoltaic modules to the mounting system without damage. Mounting clips shall be designed to work with grounding hardware specified below.

c. Grounding Hardware: The following components shall be used to meet the requirements of the grounding detail.

1. Module grounding clips: Grounding clip to be located under each side of each module. Clips shall have sharp protrusions designed to penetrate anodized coating of both mounting system and photovoltaic module to create a solid ground path through the mounting trail.

2. Ground Lugs: Ground Lugs to accept equipment grounding conductor with serrated base designed to penetrate anodized coating of mounting rails to create solid ground path through the mounting rail.

3.0 Execution:

a. Install all components in accordance with manufacturer's instructions.

b. All components of the systems and the installation procedures shall meet National Electrical Code requirements, as well as the 2020 NYS Building Code and 2020 NYS Fire Code.

c. Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

3.1 Testing:

a. Photovoltaic modules shall be tested in factory for design performance.

b. Inverter shall be factory tested for performance, and results shall be included in the O & M Manual.

c. System testing of installed photovoltaic array shall be performed on all system strings and recorded in the O & M Manual.

d. System start-up procedure will be as outlined by the Manufacturer's Installation Manual and the Inverter Manual.

3.2 Solar Production Metering and Data Acquisition:

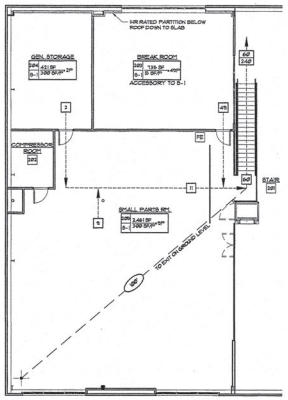
a. The contractor shall provide, install, and maintain an internet enabled electric meter that display instantaneous AC power and cumulative total AC energy production. System shall be able to record cumulative total AC energy production of the solar electric system on an hourly and time-stamped basis, and store the hourly readings for at lest seven days, and transmit recorded readings once per day to a NYSERDA designated data agent via e-mail or other method. The meter must meet the American National Standards Institute (ANSI) C12.20, be revenue grade with a +/- 0.5% accuracy and properly calibrated. The meter must also have battery backup to prevent the loss of data during power outages or cloud data storage capabilities.

3.3 System Maintenance and Data Reporting:

a. Provide Maintenance and reporting services for the system for a period of two years after system completion including:
   - General System electrical and mechanical inspections every 6 months.

- Preparation of quarterly maintenance reports for the Owner and NYSERDA, including monthly operation and maintenance summaries and monthly parts and labor costs.
- Training of staff to perform basic system maintenance, including looking out for problems, visual inspections, and inverter error indications.
- Photovoltaic modules shall be tested in factory for design performance.

BUILDING REFERENCE DRAWINGS



CODE COMPLIANCE
MEZZANINE LEVEL PLAN
CC-1
EGRESS EXIT PLAN W/ EGRESS DISTANCE
3/32" = 1' - 0"

ROOM LIST

*	RM. NAME	RM. (SQ.FT.)
	GROUND FLOOR	
101	MAIN ENTRANCE VESTIBULE	45
102	CORRIDOR	349
103	CORRIDOR	397
104	REAR ENTRANCE VESTIBULE	45
105	HIGHWAY SUPERINTENDENT'S OFFICE	271
106	MAP & FILE LIBRARY	223
107	HEAD MECHANIC'S OFFICE & TECHNICAL LIBRARY	355
108	CORRIDOR	91
109	MECHANICS TOOL RM.	329
110	LIQUID STORAGE RM.	137
111	HIGHWAY TOOL & CHEM. STORAGE RM.	338
112	SIGN SHOP	347
113	CARPENTER SHOP	874
114	ELECTRICAL ROOM	78
115	HVAC RM.	235
116	MEN'S SHOWER	28
117	LAUNDRY CLOSET	40
118	MEN'S LOCKER RM.	160
119	MEN'S TOILET	200
120	CLOSET	9
121	WOMEN'S SHOWER	36
122	JANITOR'S CLOSET	13
123	WOMEN'S TOILET	213
124	CHAIR STORAGE	118
125	E.O.C. & CONFERENCE RM. (A & B)	1,879
126	VESTIBULE	86
127	SERVER/IT CLOSET	42
128	SERVICE BAY/REPAIR AREA	6,131
129	JANITOR'S CLOSET	93
130	WASH BAY EQUIPMENT RM.	488
131	TIRE STORAGE RM.	1,146
132	WELDING & STORAGE AREA	387
133	WASH BAY	1,948
134	TRUCK STORAGE BAY	6,864
	MEZZANINE	
201	STAIR	119
202	COMPRESSOR ROOM	186
203	KITCHEN/BREAK RM.	735
204	GENERAL STORAGE RM.	421
205	SMALL PARTS ROOM	2,461

LEGEND

ROOM * — ROOM NAME; ROOM AREA (SQ.FT.)
OCCUPANCY CLASSIFICATION — ROOM OCCUPANT LOAD; FLOOR AREA ALLOWANCE PER OCCUPANT (SQ.FT.)
ROOM NAME
ROOM *
ACTUAL EGRESS OCCUPANCY; OCCUPANCY LOAD ALONG PATH OF EGRESS
MAX. ALLOWABLE EGRESS OCUPANCY LOAD OF DOOR, CORR., OR STAIR
MAX. DISTANCE TRAVELED IN OCCUPANCY CLASSIFICATION
FULL HEIGHT WALL (GARAGE AREA)
FE — FIRE EXTINGUISHER
DF — DRINKING FOUNTAIN
SS — SERVICE SINK
FRW — FIRE RATED WALL

PROJECT SUMMARY CODE CALCULATION

GROUND FLOOR AREA : 24,684 SQ.FT.
MEZZANINE AREA = 2,154 SQ.FT.

CONSTRUCTION CLASSIFICATION: TYPE II B (NONCOMBUSTIBLE CONSTRUCTION)
OCCUPANCY: NON-SEPARATED (A-3, B, S-1 & S-2) OCCUPANCIES
SPRINKLER: FULLY SPRINKLED
CODE: 2010 BUILDING CODE OF NEW YORK STATE
OCCUPANCY LOAD:
A-3 = 72 PERSONS; S-1 = 45 PERSONS
B = 91 PERSONS; S-2 = 35 PERSONS

TRAVEL DISTANCE (W/ SPRINKLER SYSTEM) 2010 BC NYS, 1016.1

OCCUPANCY	ALLOWED DISTANCE	ACTUAL DISTANCE
A-3	250' MAX.	35'
B	300' MAX.	100'
S-1	250' MAX.	53'
S-2	400' MAX.	96'

EGRESS WIDTH (W/ SPRINKLER SYSTEM) 2010 BC NYS

STAIRWAYS	44" MIN.	@ 2"/OCCUPANT
CORRIDORS	44" MIN.	@ .15"/OCCUPANT
EGRESS DOOR	32" MIN.	@ .15"/OCCUPANT

REQ. FIRE SEPARATION BETWEEN SPRINKLED OCCUPANCIES (TABLE 508.3.3)

	A-3	B	S-1	S-2
A-3	-	1HR	1HR	1HR
B	-	-	1HR	1HR
S-1	-	-	-	1HR
S-2	-	-	-	-

NOTE: REFER TO STRUCTURAL SHEET S-1.0 FOR DESIGN CRITERIA

MINIMUM PLUMBING FIXTURES REQUIRED (TABLE 403.1)

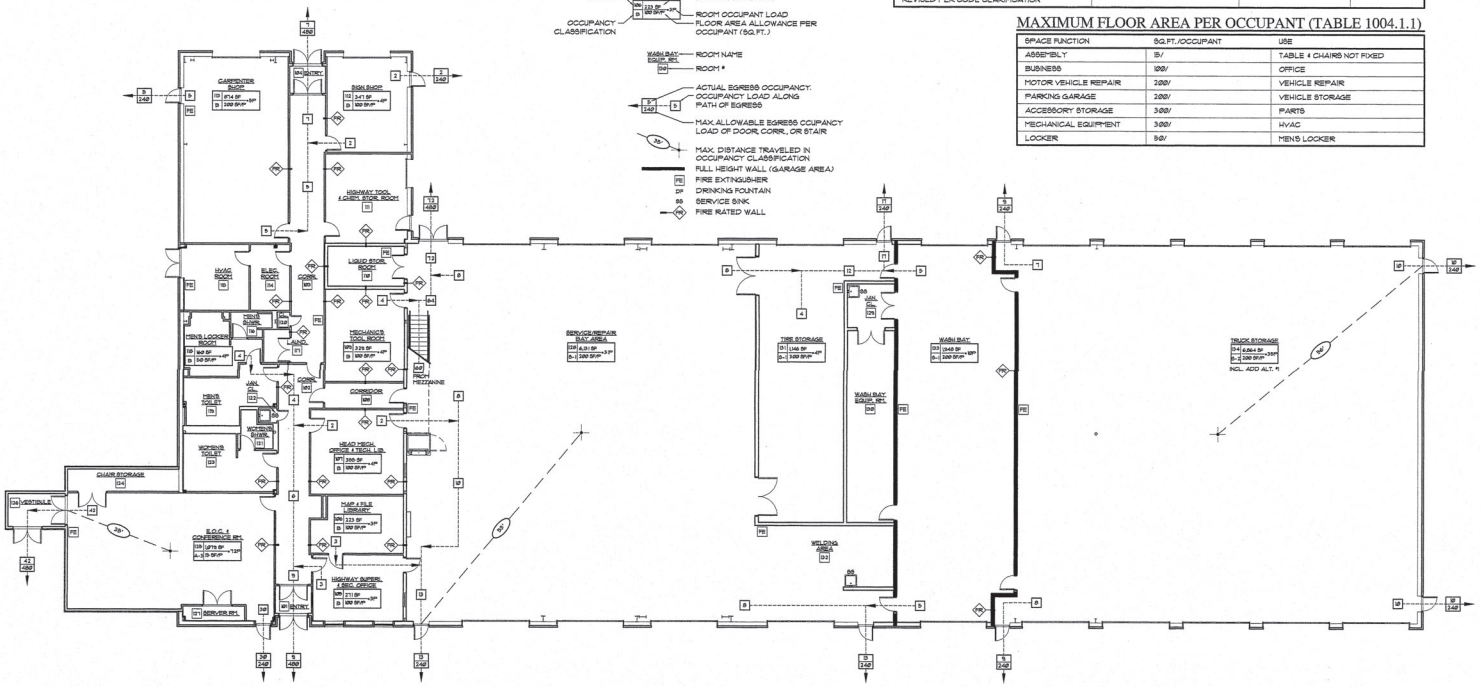
OCCUPANCY CLASSIFICATION	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	EMERGENCY EYE WASH & SHOWER	DRINKING FOUNTAIN REQ.	SERVICE SINK REQ.
A-3	1 PER/125	1 PER/65	1 PER/200	1 PER/200		1 PER/500	1 S.S.
B	1 PER/25 FOR THE FIRST 50 PLUS 1 PER/50 FOR THE REMAINING EXCEEDING 50	1 PER/25 FOR THE FIRST 50 PLUS 1 PER/50 FOR THE REMAINING EXCEEDING 50	1 PER/40 FOR THE FIRST 80 PLUS 1 PER/80 FOR THE REMAINING EXCEEDING 80	1 PER/40 FOR THE FIRST 80 PLUS 1 PER/80 FOR THE REST		1 PER/100	1 S.S.
S-1	1 PER/100	1 PER/100	1 PER/100	1 PER/100	1	1 PER/1000	1 S.S.
S-2	1 PER/100	1 PER/100	1 PER/100	1 PER/100	1	1 PER/1000	1 S.S.

FIXTURE CALCULATIONS AS VALUES FROM THE ABOVE TABLE

WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS		SERVICE SINKS
A-3 OCCUPANCY 72 PERSONS						
36 MEN @ 1/25 = 36 WOMEN @ 1/65 =	1 W.C. 1 W.C.	36 MEN @ 1/200 = 36 WOMEN @ 1/200 =	1 LAV. 1 LAV.	72 @ 1/500 =	1 D.F.	1 S.S.
B OCCUPANCY 91 PERSONS						
46 MEN FIRST 50 @ 1/25 = 46 WOMEN FIRST 50 @ 1/25 =	2 W.C. 2 W.C.	46 MEN @ 1/40 = 46 WOMEN @ 1/40 =	2 LAV. 2 LAV.	91 @ 1/100 =	1 D.F.	1 S.S.
S-1 OCCUPANCY 45 PERSONS						
23 MEN @ 1/100 = 23 WOMEN @ 1/100 =	1 W.C. 1 W.C.	23 MEN @ 1/100 = 23 WOMEN @ 1/100 =	1 LAV. 1 LAV.	45 @ 1/1000 =	1 D.F.	1 S.S.
S-2 OCCUPANCY 35 PERSONS						
18 MEN @ 1/100 = 18 WOMEN @ 1/100 =	1 W.C. 1 W.C.	18 MEN @ 1/100 = 18 WOMEN @ 1/100 =	1 LAV. 1 LAV.	35 @ 1/1000 =	1 D.F.	1 S.S.
REQUIRED FIXTURES						
TOTAL PROVIDED PER GENDER*	19 W.C. 19 W.C.		19 LAV. 19 LAV.		4 D.F.	4 S.S.
*PROVIDED PER GENDER REVISED PER CODE CLARIFICATION	3 W.C.		2 LAV.		4 D.F.	2 S.S.

MAXIMUM FLOOR AREA PER OCCUPANT (TABLE 1004.1.1)

SPACE FUNCTION	SQ.FT./OCCUPANT	USE
ASSEMBLY	15/	TABLE 4 CHAIRS NOT FIXED
BUSINESS	100/	OFFICE
MOTOR VEHICLE REPAIR	200/	VEHICLE REPAIR
PARKING GARAGE	200/	VEHICLE STORAGE
ACCESSORY STORAGE	300/	PARTS
MECHANICAL EQUIPMENT	300/	HVAC
LOCKER	50/	MENS LOCKER



2 CC-1 CODE COMPLIANCE GROUND LEVEL PLAN ADD ALTERNATE #OCC-1
EGRESS EXIT PLAN W/ EGRESS DISTANCE
3/32" = 1' - 0"

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NOTE:

PROJECT NAME:
CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

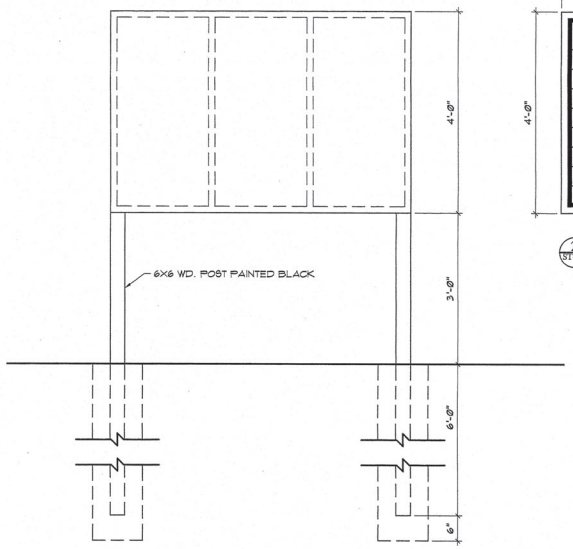
APPLICABLE CONTRACT(S) NO.

DRAWING TITLE: CODE COMPLIANCE

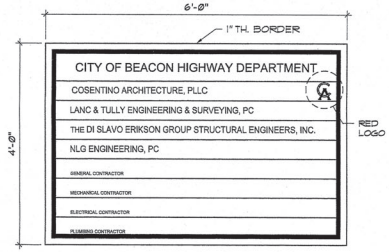
RONALD V. COSENTINO, R.A.
REGISTERED ARCHITECT
NEW YORK STATE REGISTER ARCHITECT NO. 020277

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815 BLOOMING GROVE TURNPIKE, SUITE 401
NEW WINDSOR, NEW YORK 12553
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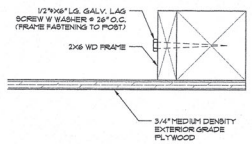
DATE: MARCH 31, 2015
DRAWING NO. CC-1
PROJECT NO. 1562
SET NO.
SHEET NO. CC01 OF CC02



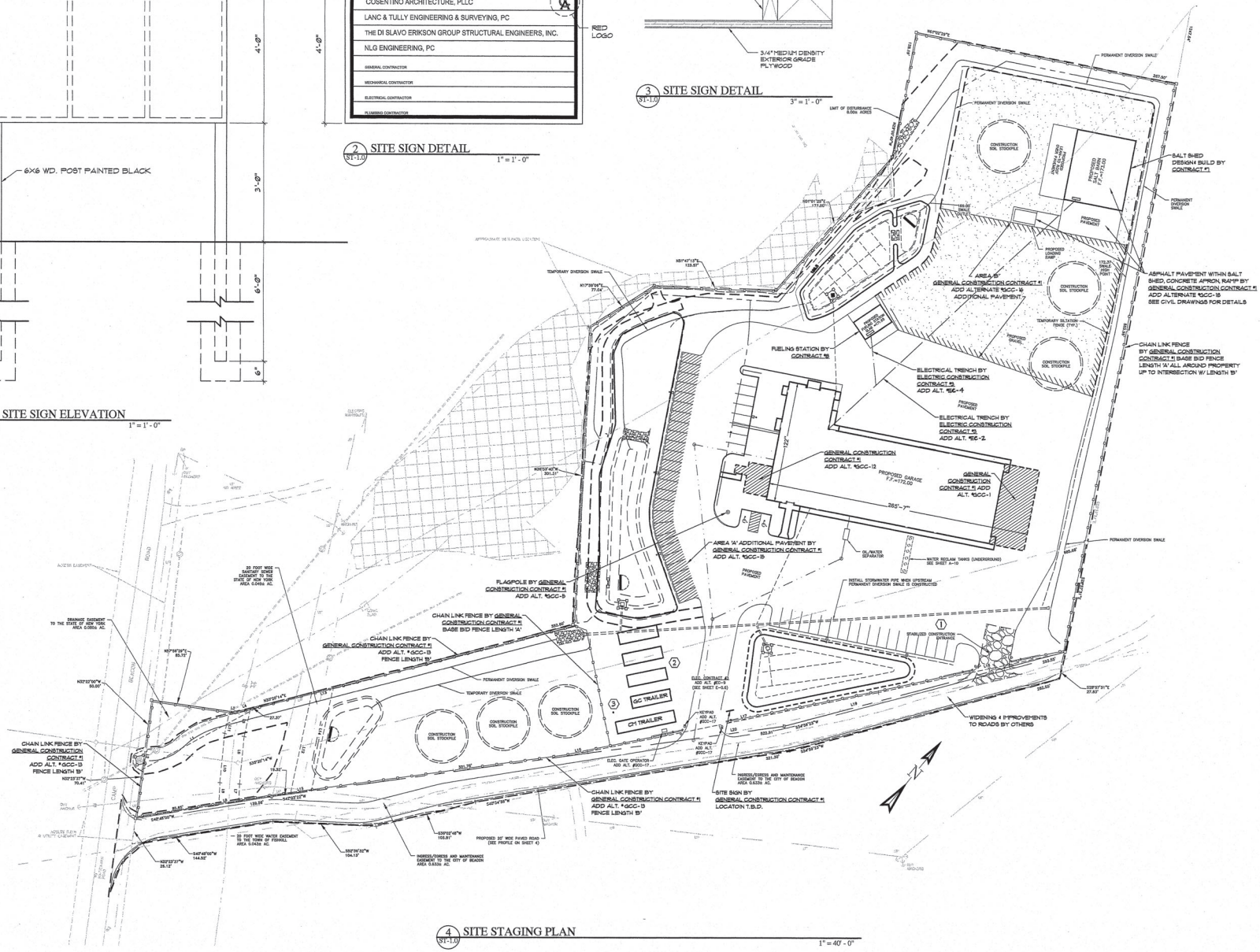
1 SITE SIGN ELEVATION
S1-1.0
1" = 1' - 0"



2 SITE SIGN DETAIL
S1-1.0
1" = 1' - 0"



3 SITE SIGN DETAIL
S1-1.0
3" = 1' - 0"



4 SITE STAGING PLAN
S1-1.0
1" = 40' - 0"

KEY NOTES:

1. TEMPORARY STABILIZED CONSTRUCTION ENTRANCES BY GENERAL CONSTRUCTION CONTRACTOR #1
   1. 28'-0" X 50'-0" MIN. PLAN (135° RADIUS ENDS)
   2. 2" STONE SIZE, 8" THICK
   3. GEOTEXTILE PRIOR TO STONE
   4. MAINTAIN TO PREVENT TRACKING / SEDIMENT / ANY SEDIMENT / TRACKING ONTO DISTRICT / PUBLIC ROADWAYS WILL BE CLEANED IMMEDIATELY
   5. PERIODIC INSPECTION / MAINTENANCE AFTER EACH RAINFALL
2. CM / PRIME CONTRACTORS TRAILERS
   1. TRAILER SITE TO BE PREPARED, SEEDED & COMPACTED PRIOR TO DELIVERY AND PLACEMENT OF TRAILERS.
3. TEMPORARY ELECTRIC & TELEPHONE SERVICE BY ELECTRICAL CONTRACTOR, EC #3
   1. CONNECTION POINT ROUTE (AS REQ'D)
   2. OVERHEAD CABLES / POLES (AS REQ'D)

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NOTE:

PROJECT NAME:
CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.
ALL CONTRACTS

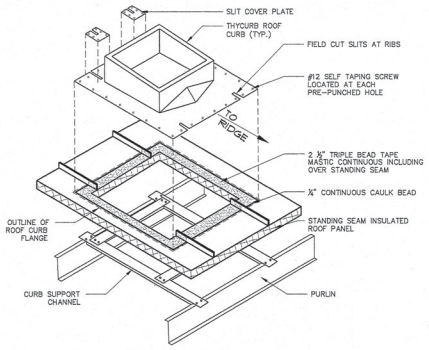
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SITE STAGING PLAN

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REGISTERED ARCHITECT
NEW YORK STATE REGISTER
ARCHITECT LIC. NO. 020277

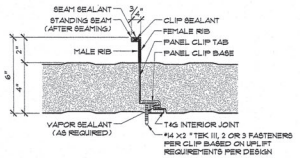
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DATE: MARCH 31, 2015
PROJECT NO. 1502
SET NO.
DRAWING NO. ST-1.0
SHEET NO. ST01 OF ST01

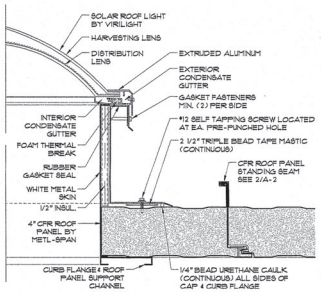
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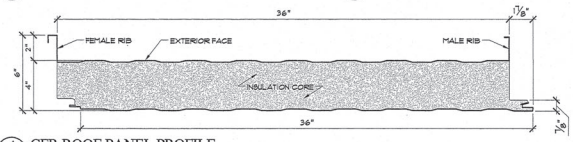
1 A-2 ROOF CURB DETAIL N.T.S.



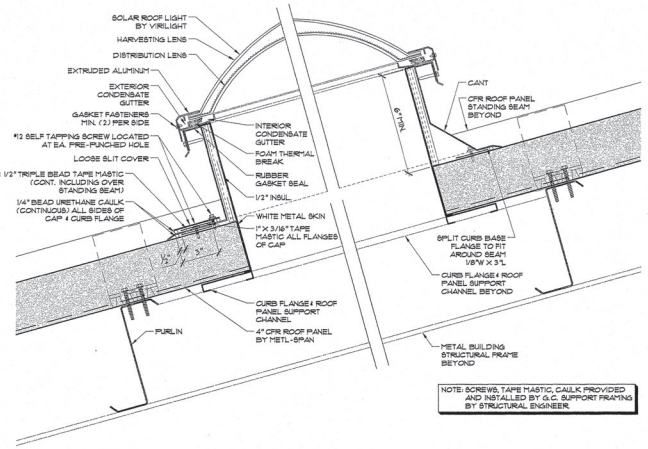
2 A-2 CFR ROOF PANEL JOINT DETAIL 3" = 1' - 0"



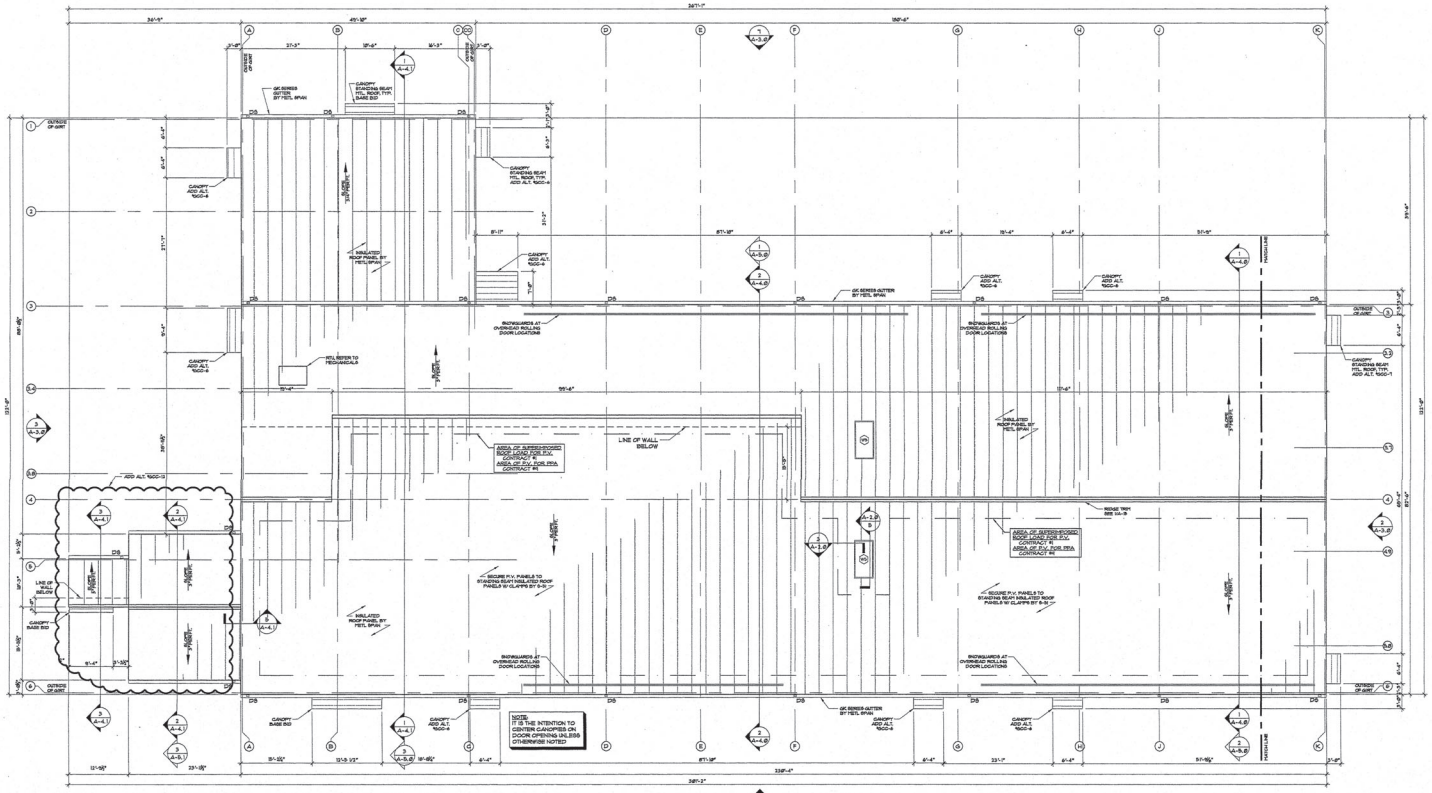
3 A-2 SKYLIGHT CURB SIDE SECTION 3" = 1' - 0"



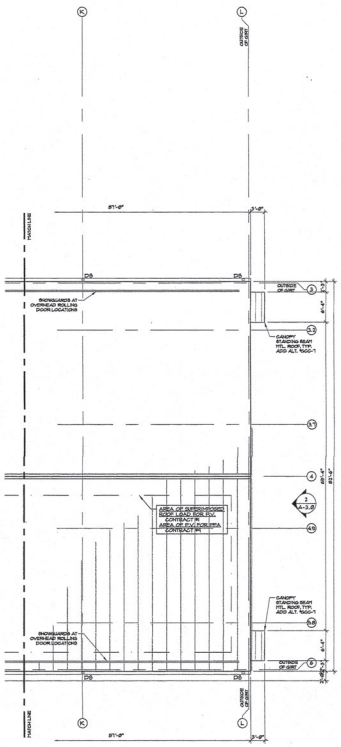
4 A-2 CFR ROOF PANEL PROFILE 3" = 1' - 0"



5 A-2 SKYLIGHT CURB SECTION 3" = 1' - 0"



6 A-2 ROOF PLAN ADD ALTERNATE #OCC-5 & #OCC-6 3/32" = 1' - 0"



7 A-2 ROOF PLAN ADD ALTERNATE #OCC-1, #OCC-7 & #OCC-10 3/32" = 1' - 0"

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CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.

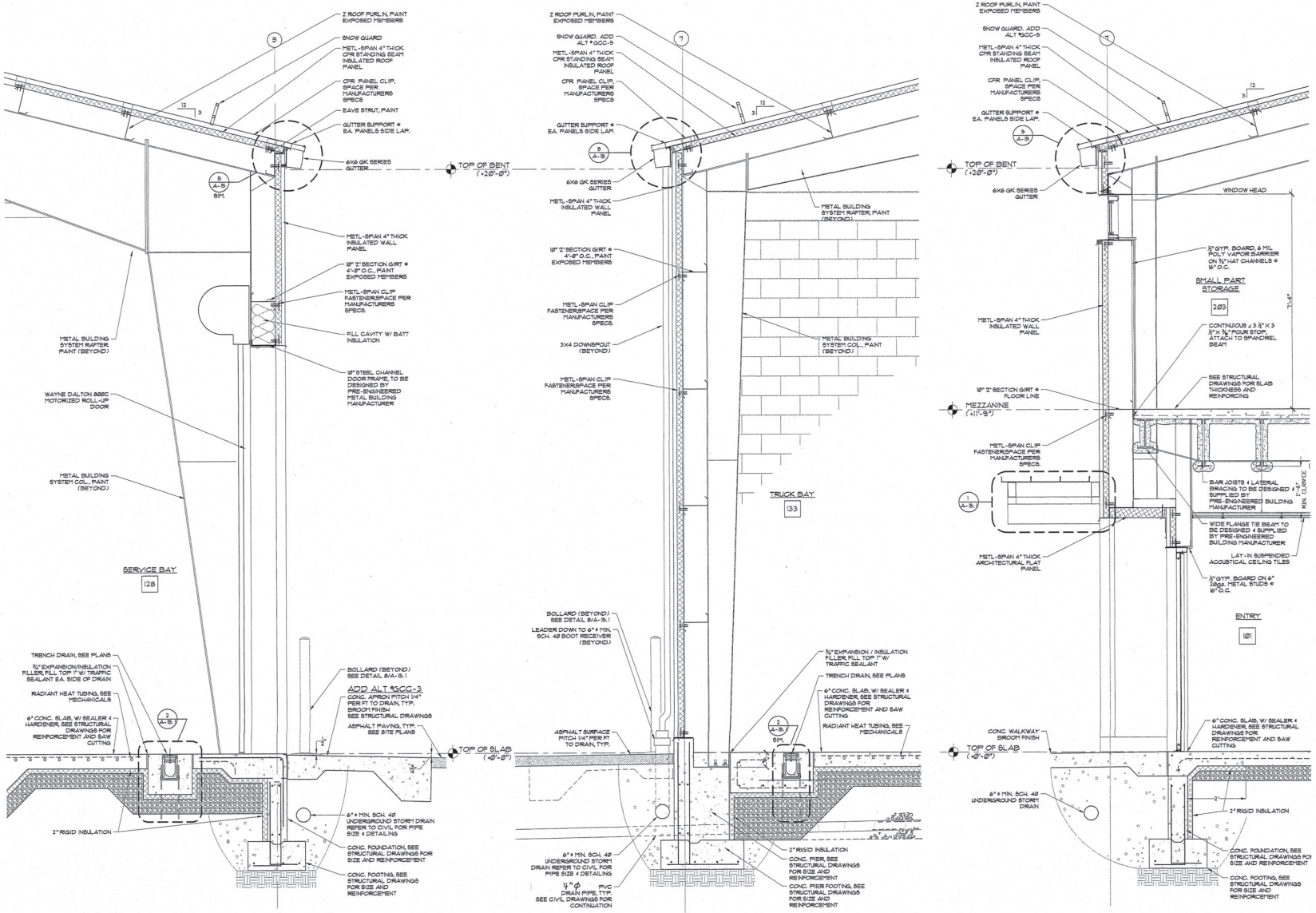
DRAWING TITLE:
ROOF PLAN, CURB & SKYLIGHT DETAILS

RONALD V. COSENTINO, R.A.
NEW YORK REGISTERED ARCHITECT, P.E.
ARCHITECT, P.E. NO. 020277

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DATE: MARCH 31, 2015
PROJECT NO. 1502
SET NO.
DRAWING NO. A-2.0
SHEET NO. A04 OF A25

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BEACON, NY

APPLICABLE CONTRACTS/NO.

DRAWING TITLE:
WALL SECTIONS

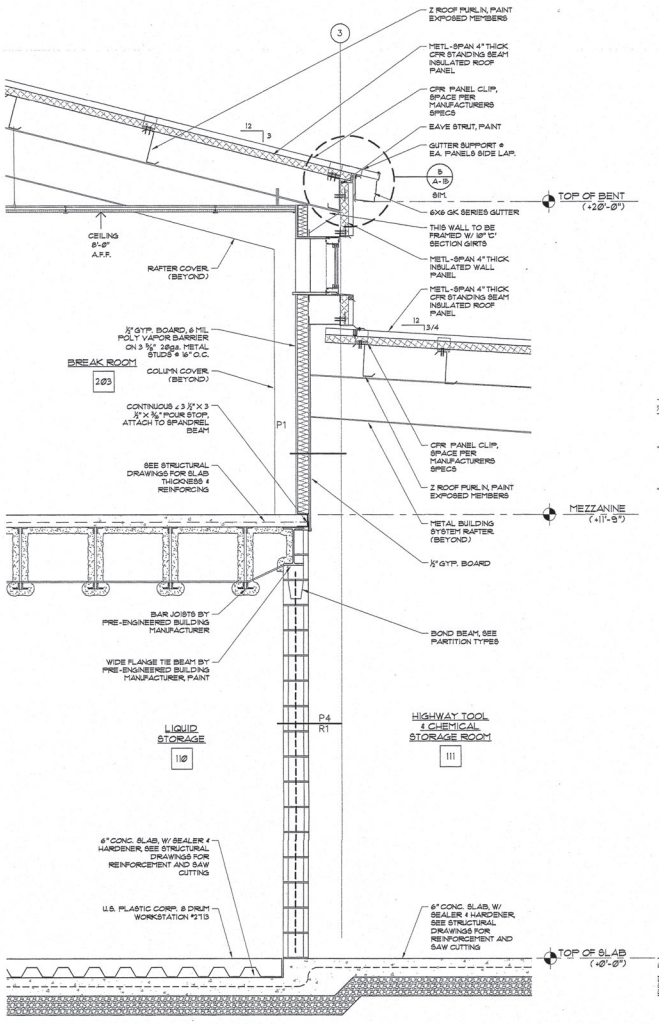
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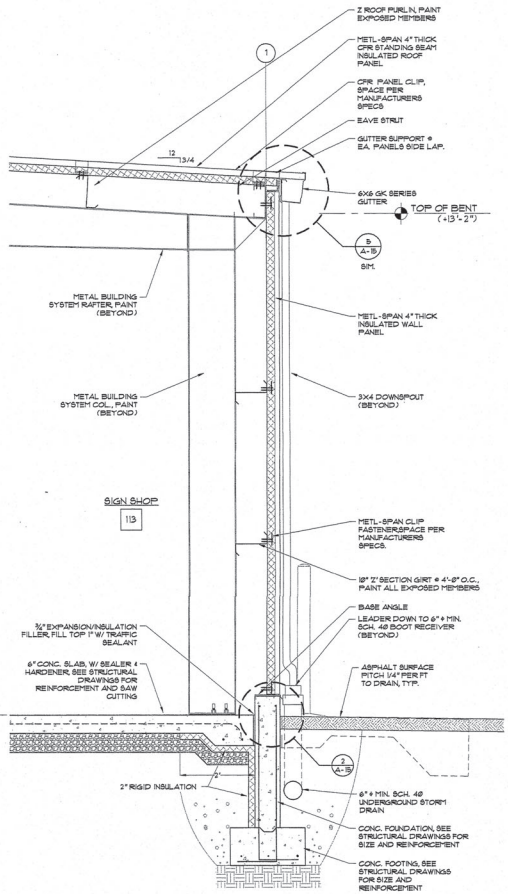
DATE: MARCH 31, 2015
PROJECT NO. 1502
SET NO.

DRAWING NO. A-5.0
SHEET NO. A08 OF A25

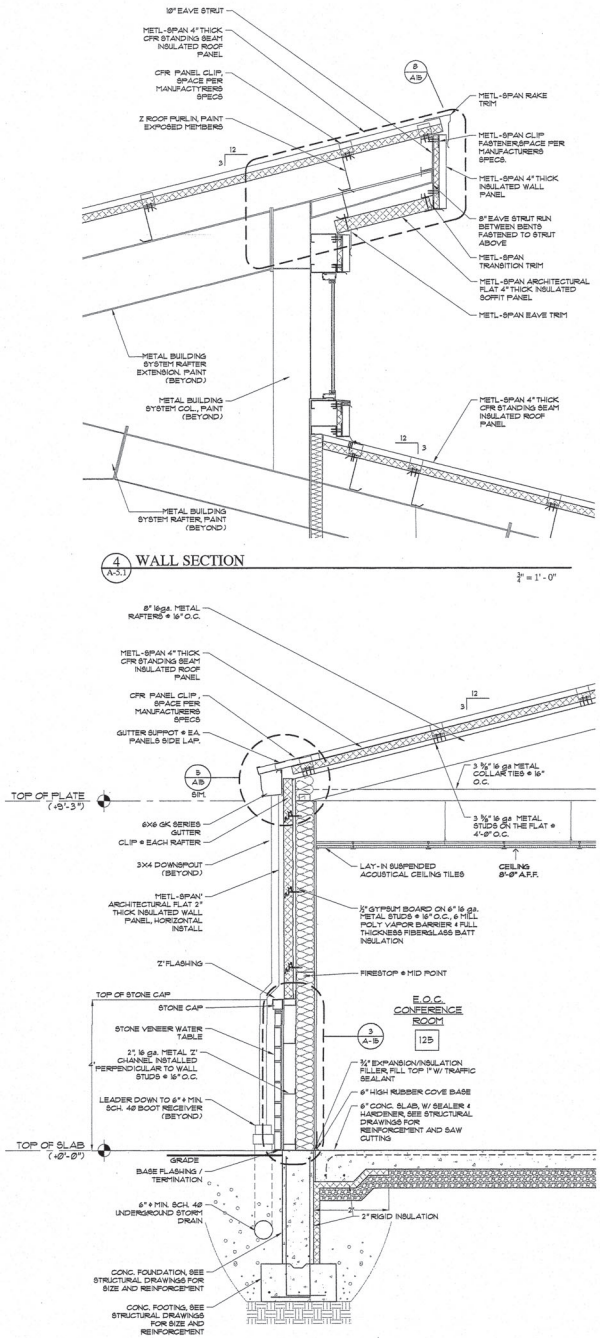
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1 WALL SECTION
A-5.1
3/4" = 1'-0"



2 WALL SECTION
A-5.1
3/4" = 1'-0"



3 WALL SECTION
A-5.1
3/4" = 1'-0"

4 WALL SECTION
A-5.1
3/4" = 1'-0"

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HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.

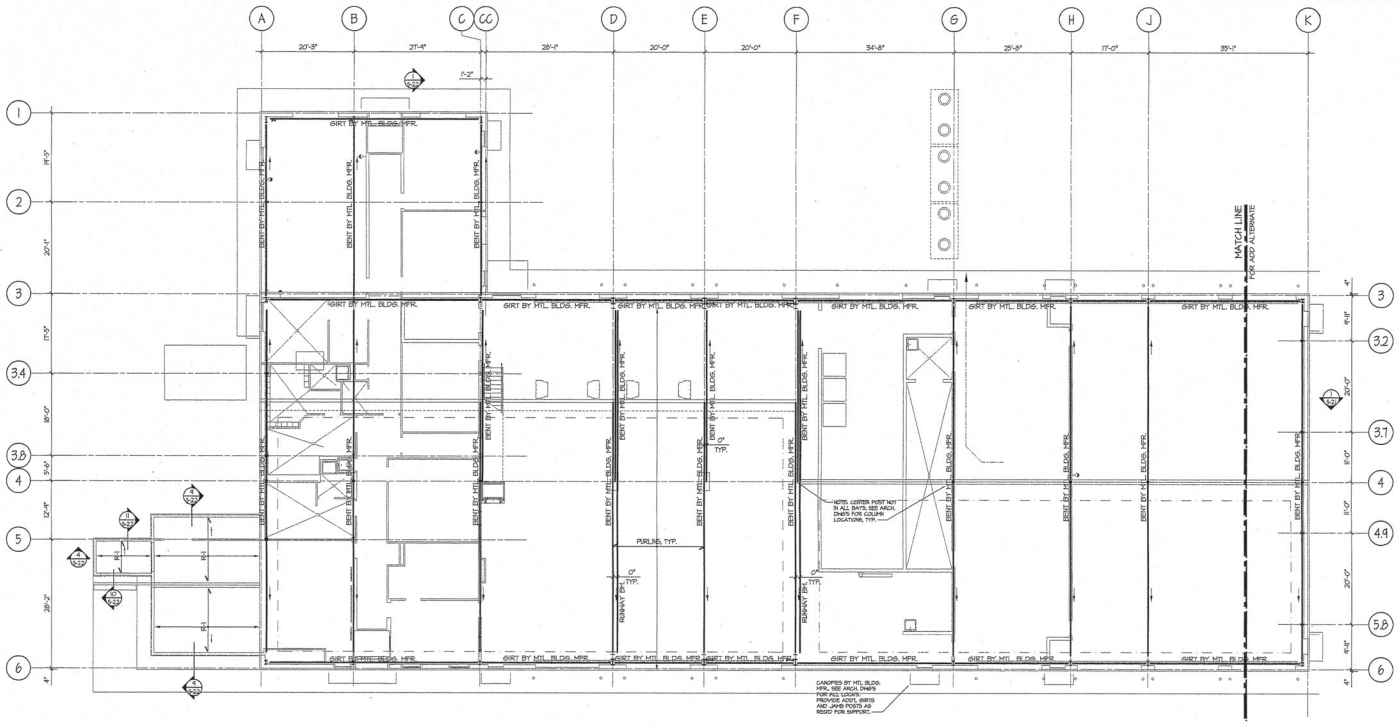
DRAWING TITLE:
WALL SECTIONS

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NEW YORK STATE REGISTER ARCHITECT PROFESSIONAL NO. 020277

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DATE: REVISED JULY 20TH 2015
DRAWING NO. A-5.1
PROJECT NO. 1502
SET NO.
SHEET NO. A.09 OF A.25

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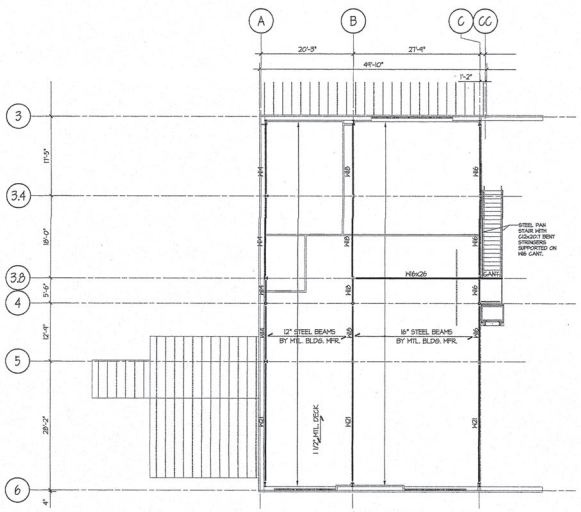
ROOF FRAMING PLAN

3/32" = 1'-0"

NORTH

- METAL BUILDING MANUFACTURER TO INCLUDE DESIGN LOAD FOR HUNG HVAC UNITS BY OTHERS.
- RUNWAY BEAM TO SUPPORT MOVING CRANE WITH 5 TON CAPACITY.
- "R-1" INDICATES 8" DEEP 16 GAGE ROOF RAFTERS AT 16'o.c.

NOTE "A":
TOP OF PARTIAL HEIGHT MASONRY WALL TO BE BRACED WITH TWO BACK-TO-BACK 6", 16 GA. COLD FORMED JOISTS AT 4'-0"o.c. FASTENED TO TOP OF LOW WALL WITH (3)- 1/4"ø TAPCON SCREWS INTO BOND BEAM, AND FASTENED TO FACE OF FULL HEIGHT WALL. PROVIDE BOND BEAM AT JOIST ELEVATION WITH 16 GAGE CLIPS, (3) TAPCONS TO WALL AND (3)- #12 SCREWS TO JOIST. SEE ARCHITECTURAL DRAWINGS.

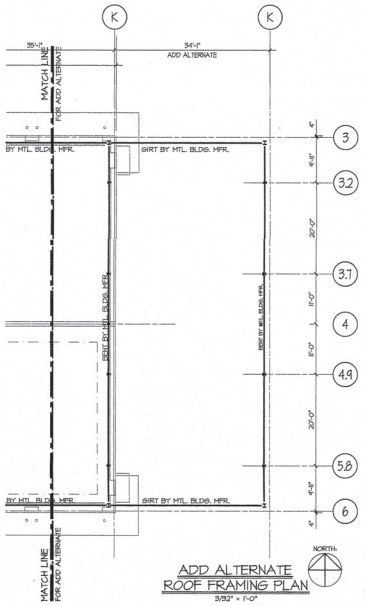


MEZZANINE FRAMING PLAN

3/32" = 1'-0"

NORTH

- THE ENGINEERING DESIGN OF THE STEEL FRAMING SUPPORTING THE MEZZANINE IS DELEGATED TO METAL BUILDING SUPPLIER. INFORMATION SHOWN HERE IS SCHEMATIC TO INDICATE THE ALLOWABLE DEPTH OF STEEL BEAMS.
- ⟷ INDICATES STEEL FILLER BEAM SPAN, MAXIMUM SPACING 6'-0"o.c. SEE ARCHITECTS DRAWINGS FOR ELEVATION.
- FLOOR CONSTRUCTION: 4" CONCRETE SLAB ON METAL DECK = 1 1/2" 20 GA. GALVANIZED COMPOSITE FLOOR DECK = 2 1/2" LIGHTWEIGHT CONCRETE REINFORCED WITH WWF W2.0xW2.0 SET ON CHAIRS 3/4" CLEAR FROM TOP OF SLAB.



ADD ALTERNATE ROOF FRAMING PLAN

3/32" = 1'-0"

NORTH

REVISIONS

The Di Salvo Engineering Group
Structural Engineers
63 Copps Hill Rd, Ridgefield, CT 06877
(203) 438-9581 | www.tdeg.com

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BEACON, NY

APPLICABLE CONTRACT(S) NO.

DRAWING TITLE:
FRAMING PLANS

STATE OF NEW YORK — MARIO A. CASENTINO — 084008 — LICENSED PROFESSIONAL ENGINEER

cosentino
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Architects, Program Managers & Client Advocates
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DATE: MAY 8, 2015
PROJECT NO.: CA: 1562 TDEG: 12007
SET NO.:
DRAWING NO.: S-1.2
SHEET NO. 203 OF 506

ABBREVIATIONS:

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C, CDT	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATION
CU	COPPER
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL BOARD
DS	DOOR STRIKE
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EA	EACH
ELEC	ELECTRICAL
EMER OR EM	EMERGENCY
FA	FIRE ALARM
FAI	FURNISH AND INSTALL
FBO	FURNISHED BY OTHER DIVISION OF WORK
FCO	FUSE CUT-OUT PANEL
FSD	FIRE SMOKE DAMPER
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FM	FLOOR MACHINE
FT	FEET OR FOOT
FCU	FAN COIL UNIT
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HC	HUNG CEILING
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING DIV. OF WORK
HZ	HERTZ
IC, I	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT (UN-SWITCHED)
NTS	NOT TO SCALE
P	POLE
PB	PULL BOX
ø	PHASE
PM	PLUGMOLD
PNL	PANEL
PWR	POWER
RECEPT	RECEPTACLE
RM	ROOM
SW	SWITCH
TEL	TELEPHONE
TRANSF	TRANSFORMER
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
W	WATT

GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
2. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS SPECIFIED UNDER RACEWAYS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLR. LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
3. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
4. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAYS OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED FURNISH PISH WIRE.
5. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
6. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH ON SIDE OPPOSITE HINGE, VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
7. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
8. JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, RE-ROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHERE-EVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
9. SUPPORT PANEL, JUNCTIONS AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
10. CONTRACTOR TO COORDINATE THE EXACT LOCATION AND SIZES OF THE PULL BOXES AND/OR ACCESS PANELS WITH CONSTRUCTION MANAGER, OWNER AND ARCHITECT AS REQUIRED.
11. ALL EQUIPMENT DEVICES, WIRING ETC. SHOWN ON THE PLANS IS NEW U.O.N.
12. CONNECT RACEWAY TO VIBRATING EQUIPMENT WITH FLEXIBLE SEAL TIGHT CONDUIT; MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO FOUNDATIONS.
13. FOR EACH LOCATION OF OTHER TRADES EQUIPMENT, SEE RESPECTIVE TRADE DRAWINGS.
14. FOR RECEPTACLE MTG. HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECTS, OWNER REPRESENTATIVE & COMMUNICATION/ DATA CONSULTANT.
15. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES AND SPECIFICATIONS REGARDING ELECTRICAL SCOPE OF WORK.
16. ALL FLEXIBLE CONNECTIONS TO ELECTRIFIED PARTITIONS OR PLUGMOLDS SHALL BE MAXIMUM 18" IF EXPOSED.
17. ALL ELECTRIFIED FURNITURE SYSTEM HARDWARE RECEPTACLES, POWER CONNECTORS ETC.) SUPPLIED BY FURNITURE VENDOR, INSTALLED BY ELECTRICAL CONTRACTOR.
18. CONTRACTOR TO PROVIDE LAMINATED PHENOLIC LABLES ON ALL ELECTRIC EQUIPMENT & REFER TO SPECIFICATIONS FOR DETAILS.
19. TEL/DATA OUTLET SHOWN ON PLANS, CONTRACTOR TO PROVIDE BACK BOX WITH 3/4" STUD UP TO ACCESSIBLE CEILING, INSTALL PULL WIRE.
20. LIGHTING FIXTURES DESIGNATED BY EM SHALL BE PROVIDED WITH AN EMERGENCY BATTERY BALLAST AND WIRED TO EMDP. CONTRACTOR TO PROVIDE UN-SWITCHED PHASE LEG TO BALLAST. FIXTURE TO BE SWITCHED.
21. LIGHTING FIXTURES DESIGNATED BY EM/NL SHALL BE PROVIDED WITH AN EMERGENCY BATTERY BALLAST AND WIRED TO PANEL EMDP. FIXTURE SHOULD BE USED AS NIGHT LIGHTING AND BE UNSWITCHED.
22. SITE LIGHTING AND EXTERIOR LIGHTING TO BE CONTROLLED VIA A LIGHTING CONTACTOR/ PHOTOCELL AND TIMER. REFER TO DETAIL DRAWING E-0.4
23. "PV" INVERTORS INDICATED ON MEZZANINE LEVEL TO BE PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR TO COORDINATE WITH "PV" PROVIDER THE ACTUAL INTERCONNECTION POINT IN THE ELECTRICAL SERVICE/DISTRIBUTION SYSTEM. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 1 1/2" CONDUIT FROM INVERTOR LOCATION TO THE MAIN ELECTRICAL ROOM 114.

ELECTRICAL SYMBOL LIST

- WALL MOUNTED OCCUPANCY SENSOR WATTSTOPPER DW-100
- CEILING MOUNT OCCUPANCY SENSOR WATTSTOPPER DT-300
- S_F FAN SWITCH
- S WALL SWITCH
- TC TIME CLOCK
- S_{TC} TIME CLOCK OVERRIDE WALL SWITCH REFER TO E-004 GARAGE LIGHTING DETAIL
- $_3S^D_D$ SUBSCRIPTS (IF REQUIRED – APPLIES TO ALL SYMBOLS SHOWN ABOVE) S SWITCH CONTROL 3 THREE WAY SWITCH D DIMMER LIGHT CONTROL TC TIME CLOCK
- EXIT SIGN WITH INTEGRAL BATTERY PACK.
- 20A, 125V, 60HZ, 1ø, 2 POLE, 3 WIRE, GROUNDING TYPE ELECTRICAL RECEPTACLE
- 30A 30A, 125V, 60HZ, 1ø, 2 POLE, 3 WIRE, GROUNDING TYPE ELECTRICAL RECEPTACLE
- SPECIAL WELDER/MACHINERY RECEPTACLE COORDINATE OCP AND RECEPTACLE TYPE/NEMA RATING WITH OWNER AND PROVIDER.
- 20A, 125V, 2 POLE, 3 WIRE, DOUBLE DUPLEX RECEPTACLE
- 20A 20A DUPLEX RECEPTACLE
- TELEPHONE OUTLET – WALL MOUNTED
- DATA OUTLET
- COMBINATION DATA/TELEPHONE OUTLET
- SPECIAL ELECTRICAL CONNECTION COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER
- JUNCTION BOX

- EXPOSED CONDUIT
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- FLEXIBLE EQUIPMENT CONNECTION
- GROUND CONNECTION
- 3,1 HOMERUN – NUMERAL WHERE USED INDICATES CKT. NUMBER FOR REFERENCE ONLY
- PULLBOX
- 100/60 DISCONNECT SWITCH – 100A SWITCH, 60A FUSED – UNFUSED EXCEPT WHERE FUSE SIZE IS INDICATED 3 POLE 600V., UNLESS OTHERWISE NOTED
- SURFACE MOUNTED PANEL BOARD
- FLUSH MOUNTED PANEL BOARD
- M MOTOR
- COMBINATION DISCONNECT SWITCH MOTOR CONTROLLER F.B.O. (UNLESS OTHERWISE NOTED)
- PUSH-BUTTON CONTROL FOR POWER OPERATED OVERHEAD ROLL DOWN DOORS, COORDINATE WITH DOOR MANUFACTURE

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	MANUFACTURER CATALOG #	LAMP QTY. &TYPE	FIXTURE WATTAGE	VOLTS	REMARKS
A		LIGHTING SOLUTIONS HIGH-BAY LED LUMINARIES HBXA2004100K120-277V-ALPCF	LED -200W 4100K HIGH LUMEN OUTPUT	200	277	CHAIN MOUNTED FIXTURES COORDINATE EXACT LOCATION AND HEIGHT.
B		FLUXWERX 2X2 TRANSOM TR122C40BM	LED 3700 HIGH LUMENS 4000K	49	277	B FIXTURE DESIGNATED AS EM TO INCLUDE BATTERY PACK TR1-22-C-40-BM-B
B1		COLUMBIA LIGHTING 2X2 TROFFER LIT 2240HLGFSA12125EUQ2	LED HIGH LUMEN 4000K	43	277	DOUBLE GASKETED FIXTURE
C		MERCURY LIGHTING WRAP 4' LED FIXTURE LW443800404KHTASXXUNI	LED 4000K	66	277	WALL MOUNTED ABOVE TOILET FIXTURES
D		COLUMBIA LIGHTING OPEN STRIPLIGHT LCS440HLEU	LED-HIGH LUMEN 4000K	61	277	CHAIN/SURFACE MOUNTED IN MECHANICAL ROOM AND STORE ROOMS
E		LDPI EXPLOSION PROOF/HAZARDOUS LOCATION LE40I-P5 V2 FI WPB	LED 5000K HIGH LUMEN OUTPUT	50W	277	SURFACE MOUNTED IN HAZARDOUS STORAGE AREA, ALL FITTINGS AND WIRING TO BE RATED FOR CALSS1 DIV 2 LOCATIONS
F		COLUMBIA LIGHTING LENSED STRIP LPT 4 40 HL EU	LED 4000K HL 6400	63	277	CHAIN/SURFACE MOUNTED IN WORK ROOMS FIXTURES DESIGNATED BY EM OR EM/NL TO HAVE OPTION ELL14 EM BATTERY PACK OPTION PROVIDED
G		COLUMBIA LIGHTING ENCLOSED/GASKETED WALL MOUNTED FIXTURE : LXEM 4 40 HL RFP E U	LED HIGH LUMEN 4000K	60	277	WALL MOUNTED IN WASH BAY/BUS WASH AREA, MOUNT AT 8' AFF
H		HUBBELL OUTDOOR LIGHTING LNC2 7LU 4K 4 2 PC277	LED 7 LEDS 4200K	18	277	
I		HUBBELL OUTDOOR LIGHTING LNC2-18LU-4K-4-2-PC4	LED 18 LEDS 4000K	45	277	
SSA		HUBBELL OUTDOOR LIGHTING WGH-110L-4K-U-L	LED 110 LEDS 4000K	53	277	WALL MOUNTED ABOVE SALT SHED DOORS UNDER-OVERHANG. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. APPROXIMATE MOUNTING HEIGHT= 12'.
SSB		HUBBELL OUTDOOR LIGHTING WGH-225L-4K-U-L	LED 235 LEDS 4000K	97	277	WALL MOUNTED ABOVE FRONT SIDE OF SALT SHED. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. APPROXIMATE MOUNTING HEIGHT= 25'.
K		HUBBELL PRESCOLITE 4" LED DOWNLIGHT LF4LED50440K-BL-WT	LED 1100 LUMEN MODULE 4000K	18	277	
X1		EMERGI-LITE PREMIER SERIES WPREMURBA	LED	2.5W	277	
X2		EMERGI-LITE SURVIVE-ALL SVX EXIT SERIES QA-SVX-1-R- -4X-CW	LED	1.2W	277	
X3		EMERGI-LITE PREMIER SERIES WPR1224H4R2LJVR1	MR16-LED	12W	277	

NOTE:
REFER TO SITE ENGINEER'S DRAWINGS FOR SITE LIGHTING FIXTURE DETAILS

NLG ENGINEERING, PC
Professional Engineering Services
3062 Route 9W, Suite 500
New Windsor, New York 12553
Phone : 845.562.7005
Fax : 845.562.7007

Nicholas L. Guglielmineti, PE
N.Y.S. P.E. LICENSE NO. 077854

NO	DESCRIPTION	DATE
1		

REVISIONS

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UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL SEAL IS A VIOLATION OF THE N.Y. STATE EDUCATION LAW.

PROJECT NAME:

CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.

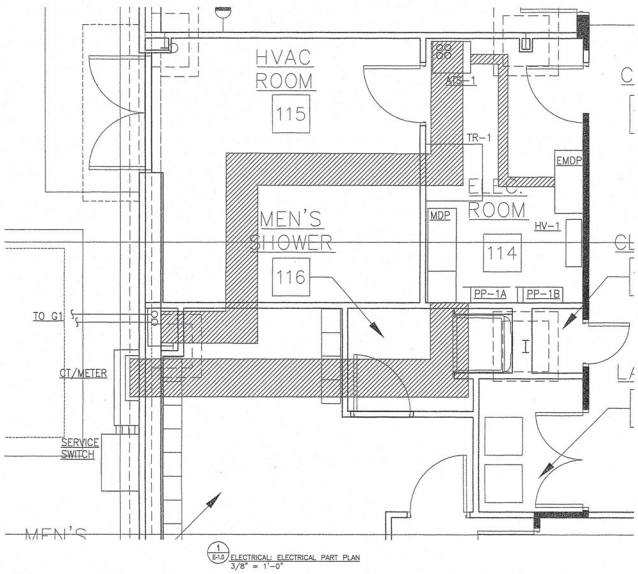
DRAWING TITLE
ELECTRICAL: NOTES, SYMBOLS & ABBREVIATIONS

RONALD V. COSENTINO, R.A.
NEW YORK REGISTERED ARCHITECT LICENSE NO. 020277

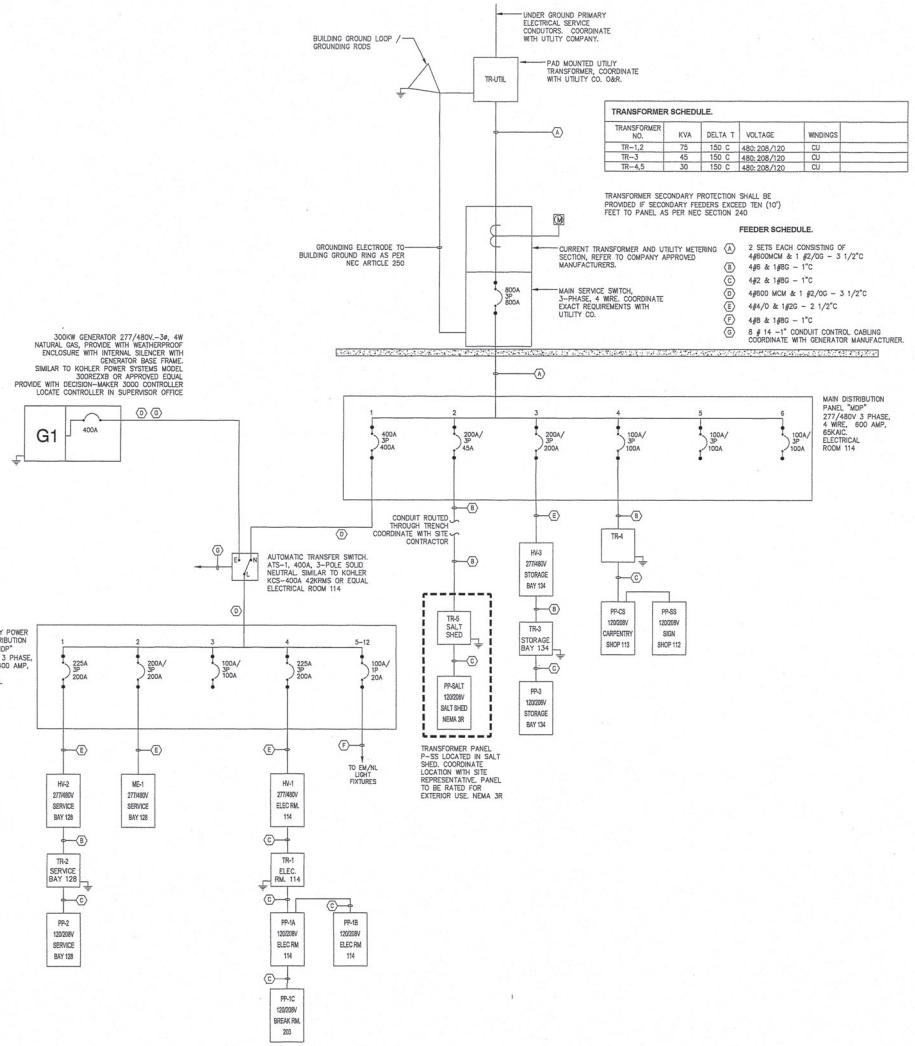
cosentino
ARCHITECTURE, PLLC
Architects, Program Managers & Client Advocates
LEED Acredited Professional and USGBC Member

TEL: (845) 562-2320 FAX: (845) 565-4709

DATE 12.8.14	DRAWING NO. E-0.1
PROJECT NO. 1562	
SET NO.	SHEET NO. OF



1 E-0 ELECTRICAL: ELECTRICAL PART PLAN
3/8" = 1'-0"



ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

NLG ENGINEERING, PC
Professional Engineering Services
3062 Route 9W, Suite 500
New Windsor, New York 12553
Phone : 845.562.7005
Fax : 845.562.7007

Nicholas L. Guglielmetti, PE
N.Y.S. PE LIC. NO. 077854

NO	DESCRIPTION	DATE
1		

REVISIONS

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UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL SEAL IS A VIOLATION OF THE N.Y. STATE EDUCATION LAW.

PROJECT NAME:
CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.

DRAWING TITLE
ELECTRICAL: ONE–LINE DIAGRAM

RONALD M. COSENTINO, R.A.
NEW YORK STATE REGISTERED ARCHITECT LIC NO. 020277

cosentino
ARCHITECTURE, PLLC
Architects, Program Managers & Client Advocates
LEED Acredited Professional and USGBC Member

TEL (845) 562–2320 FAX (845) 565–4709

DATE 12.8.14
PROJECT NO. 1562
SET NO.
DRAWING NO. E-0.2
SHEET NO. OF

PANEL MDP

VOLTAGE: 277/480V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 600 AMP BUS
FEEDER SIZE: SEE RISER
LOCATION: ELEC. RM 114
CONDITION: NEW
VOLTAGE CODE: 5,631
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

65 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
								A								
3	400	600	SMDP		101.7	116.8	26.3	1	B	2						
								C								
								A					SPACE			
3	200	225	HV-3		5	50	10	3	B	4			SPACE			
								C					SPACE			
								A					SPACE			
3	40	100	TR-4			30		5	B	6			SPACE			
								C					SPACE			

CONNECTED LOAD: 38.30 KVA LTG. + 243.80 KVA RECEPT. + 116.72 KVA MECH. = 388.82 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 38.30 KVA LTG. + 126.00 KVA RECEPT. + 80.04 KVA MECH. = 243.24 KVA TOTAL
442.21 AMPS / 282.71 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS
*** REPLACE EXIST. C.B. WITH NEW PER SCHEDULES
**** PROVIDE GROUND FAULT INTERUPT TYPE C.B.
E = EXISTING CIRCUIT MAINTAIN CONTINUITY

PANEL HV-1

VOLTAGE: 277/480V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 200A MCB
FEEDER SIZE: SEE RISER
LOCATION: ELEC RM 114
CONDITION: NEW
VOLTAGE CODE: 5,631
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER ROOM SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	LIGHTING CONFIDENCE ROOM			1.5	1	A	2	1.2			LIGHTING MEZZANINE	100	20	1
1	20	100	LIGHTING TOILETS			1.05	3	B	4	1.2			LIGHTING MEZZANINE	100	20	1
1	20	100	MECH RM LIGHTING			1.8	5	C	6	1.2			LIGHTING MEZZANINE	100	20	1
1	20	100	CORRIDOR LIGHTING			0.65	7	A	8					100	20	1
1	20	100	LIGHTING OFFICES			1.2	9	B	10					100	20	1
1	20	100	SPARE				11	C	12					100	20	1
1	20	100	EXT LIGHTS			0.5	13	A	14					100	20	1
1	30	100	EXTERIOR LIGHTING			1	15	B	16	1.5			POLE MTD EXT LIGHTING	100	20	1
1	30	100	EXTERIOR LIGHTING			1	17	C	18	1.5			POLE MTD EXT LIGHTING	100	20	1
1	20	100					19	A	20					100	20	1
1	20	100					21	B	22					100	20	1
1	20	100					23	C	24					100	20	1
1	20	100					25	A	26					100	20	1
1	20	100					27	B	28					100	20	1
1	20	100					29	C	30					100	20	1
3	60	100	AIR COMPRESSOR	14.3			31	A	32			20.6	RTU-1	100	40	3
3	30	100	10 HP				33	B	34					100	40	3
							35	C	36				TRANSFORMER	225	125	3
							37	A	38					225	125	3
							39	B	40		53.2	21.40	T-1	225	125	3
							41	C	42					225	125	3

CONNECTED LOAD: 15.30 KVA LTG. + 53.20 KVA RECEPT. + 61.52 KVA MECH. = 130.02 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 15.30 KVA LTG. + 31.92 KVA RECEPT. + 46.14 KVA MECH. = 93.04 KVA TOTAL
148.64 AMPS / 111.96 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS

PANEL PP-1A

VOLTAGE: 120/208V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 200A MCB 225A BUS
FEEDER SIZE: SEE RISER
LOCATION: ELEC. RM 114
CONDITION: NEW
VOLTAGE CODE: 5,36
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	CONVINIENCE ROOM			0.6	1	A	2			0.6	RM 105 HIGHWAY SUPER.	100	20	1
1	20	100	CONVINIENCE ROOM			1.2	3	B	4			0.6	RM 103 HIGHWAY SUPER	100	20	1
1	20	100	CONVINIENCE ROOM			0.8	5	C	6			0.6	RM 106 FILE LIB.	100	20	1
1	20	100	CONVINIENCE ROOM			0.8	7	A	8			0.6	RM 106 FILE LIB.	100	20	1
1	20	100	TOILET GFI			0.9	9	B	10			0.4	RM 106 FILE LIB.	100	20	1
1	20	100	TV-1			1.2	11	C	12			0.6	RM 107 HEAD MECH	100	20	1
1	20	100	BOILER SI			0.3	13	A	14			0.6	RM 107 HEAD MECH	100	20	1
1	20	100	CIRC. PUMPS			1.5	15	B	16			0.6	TOOL ROOM	100	20	1
1	20	100	CIRC. PUMPS			1.5	17	C	18			0.6	TOOL ROOM	100	20	1
1	20	100					19	A	20			0.6	TOOL STORAGE	100	20	1
3	60	100	ACCU-1		18.2		21	B	22			0.52	AD-1	100	15	2
3	60	100					23	C	24					100	15	2
2	30	100	WASHER MACHINE			1	25	A	26					100	60	2
2	30	100	LAUNDRY DRYER			3	27	B	28			12.6	PP-1C	100	60	3
2	30	100					29	C	30					100	60	3
1	20	100	SERVER ROOM			1	31	A	32				SPARE	100	20	1
1	20	100	SERVER ROOM			1	33	B	34				SPARE	100	20	1
1	20	100	SERVER ROOM			1	35	C	36				SPARE	100	20	1
1	20	100	SERVER ROOM			1	37	A	38					100	20	1
1	20	100	SERVER ROOM			1	39	B	40			20	PANEL PP-1B	100	60	3
1	20	100	SERVER ROOM			1	41	C	42					100	60	3

CONNECTED LOAD: 0.00 KVA LTG. + 53.20 KVA RECEPT. + 21.42 KVA MECH. = 74.62 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 0.00 KVA LTG. + 31.92 KVA RECEPT. + 16.07 KVA MECH. = 47.67 KVA TOTAL
196.91 AMPS / 132.40 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** PROVIDE CONDUITS WITH SEAL FITTINGS

PANEL PP-1B

VOLTAGE: 120/208V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 100A
FEEDER SIZE: SEE RISER
LOCATION: ELEC. RM 114
CONDITION: NEW
VOLTAGE CODE: 5,36
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	HAND DRYERS			1.2	1	A	2					100	20	1
1	20	100	HAND DRYERS			1.2	3	B	4			0.15	VF-1	100	20	1
1	20	100	TV-1		0.13		5	C	6		1		DOOR CONTROL	100	20	1
1	20	100	PBX-1		1		7	A	8			0.6	DF	100	20	1
1	20	100	CONN. REC			0.6	9	B	10				SPARE	100	20	1
1	20	100	SPARE				11	C	12		2		ACCU-2	100	20	2
1	20	100	SPARE				13	A	14					100	20	2
** 1	20	100	FUEL FILLING STATION		1.3		15	B	16					100	20	2
** 1	20	100	FUEL FILLING STATION		1.3		17	C	18		1		AD-2	100	20	1
** 1	20	100	FUEL FILLING STATION		1.3		19	A	20				SPARE	100	20	1
1	20	100	SPARE				21	B	22		3		EDH-1	100	30	3
1	20	100	SPARE				23	C	24					100	30	3
1	20	100	HH-2 SIGN SHOP		0.5		25	A	26				SPARE	100	20	1
1	20	100	HH-1 HIGHWAY TOOL		0.5		27	B	28				MOTORIZED GATE OPERATOR	100	20	2
1	20	100	HH-3 CARPENTRY		0.5		29	C	30					100	20	2

CONNECTED LOAD: 0.00 KVA LTG. + 5.00 KVA RECEPT. + 13.30 KVA MECH. = 18.30 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 0.00 KVA LTG. + 5.00 KVA RECEPT. + 9.98 KVA MECH. = 14.98 KVA TOTAL
48.29 AMPS / 41.60 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** PROVIDE CONDUITS WITH SEAL FITTINGS

PANEL EMDP

VOLTAGE: 277/480V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 400A
FEEDER SIZE: SEE RISER
LOCATION: ELEC. RM 114
CONDITION: NEW
VOLTAGE CODE: 5,631
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

69 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
								A								
3	150	225	HV-2		14	65.6	7	1	B	2			26.2	ME-1	225	200	3
									C							
									A							
3	100	100	SPARE					3	B	4	15.3	53.2	61.52	HV-1	225	200	3
									C							
									A	5	1		SM LIGHTING		100	20	1
3	60	100	SPARE					5	B	6	1		SM LIGHTING		100	20	1
									C	10	1		SM LIGHTING		100	20	1
1	-	-	SPACE					7	A	12	1		SM LIGHTING		100	20	1
1	-	-	SPACE					9	B	16			SPARE		100	20	1
1	-	-	SPACE					11	C	18			SPARE		100	20	1

CONNECTED LOAD: 26.30 KVA LTG. + 118.80 KVA RECEPT. + 101.72 KVA MECH. = 246.82 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 26.30 KVA LTG. + 64.40 KVA RECEPT. + 76.29 KVA MECH. = 166.99 KVA TOTAL
282.16 AMPS / 200.95 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS
*** REPLACE EXIST. C.B. WITH NEW PER SCHEDULES
**** PROVIDE GROUND FAULT INTERUPT TYPE C.B.
E = EXISTING CIRCUIT MAINTAIN CONTINUITY

PANEL ME-1

VOLTAGE: 277/480V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 225A MCB
FEEDER SIZE: SEE RISER
LOCATION: SERVICE BAY 126
CONDITION: NEW
VOLTAGE CODE: 5,631
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
3	30	100					1	A	2					100	30	3
3	30	100	HEV UNIT-4		11.5		3	B	4			4.6	HEV UNIT-1	100	30	3
3	30	100					5	C	6					100	30	3
3	30	100					7	A	8					100	40	3
3	25	100	HEV UNIT-3		4.6		9	B	10				SPARE	100	40	3
3	25	100					11	C	12					100	40	3
3	30	100					13	A	14				SPARE	100	20	1
*** 1	20	100	HEV UNIT-2		4.6		15	B	16				SPARE	100	20	1
3	20	100					17	C	18				SPARE	100	20	1
1	20	100	SPARE				19	A	20				SPARE	100	20	1
1	20	100	SPARE				21	B	22				SPARE	100	20	1
1	20	100	SPARE				23	C	24				SPARE	100	20	1
1	20	100					25	A	26					100	20	1
1	20	100					27	B	28					100	20	1
1	20	100					29	C	30					100	20	1
1	20	100					31	A	32					100	20	1
1	20	100					33	B	34					100	20	1
1	20	100					35	C	36					100	20	1
1	20	100					37	A	38					100	20	1
1	20	100					39	B	40					100	20	1
1	20	100					41	C	42					100	20	1

CONNECTED LOAD: 0.00 KVA LTG. + 0.00 KVA RECEPT. + 26.20 KVA MECH. = 26.20 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 0.00 KVA LTG. + 0.00 KVA RECEPT. + 19.65 KVA MECH. = 19.65 KVA TOTAL
29.95 AMPS / 23.65 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS
*** ALTERNATE
**** PROVIDE GROUND FAULT INTERUPT TYPE C.B.

PANEL HV-2

VOLTAGE: 277/480V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 200A MCB
FEEDER SIZE: SEE RISER
LOCATION: SERVICE BAY 129
CONDITION: NEW
VOLTAGE CODE: 5,631
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	SPARE				1	A	2	2			LIGHTING	100	20	1
1	20	100	SPARE				3	B	4	2			LIGHTING	100	20	1
1	20	100	SPARE				5	C	6	2			LIGHTING	100	20	1
3	40	100	PARALLELOGRAM LIFT				7	A	8				SPARE	100	20	1
3	40	100	SHOP - 480V 3 PHASE		37		9	B	10				SPARE	100	20	1
3	40	100					11	C	12	1			EXIT LIGHTS	100	20	1
3	20	100					13	A	14					100	20	3
3	20	100	BAF-1	2.5			15	B	16			2.5	BAF-2	100	20	3
3	20	100					17	C	18					100	20	3
1	60	100	WELDER REC				19	A	20					100	20	3
3	60	100	JATON CRANE	37			21	B	22			2.5	MONOWENT WELDING	100	20	3
3	60	100					23	C	24					100	20	3
3	20	100					25	A	26					100	20	3
3	20	100	ROLL UP DOOR	2.5			27	B	28			2.5	ROLL-UP DOOR	100	20	3
3	20	100					29	C	30					100	20	3
3	20	100					31	A	32					100	15	3
3	20	100	ROLL UP DOOR	2.5			33	B	34			6.5	TAIL PIPE EXHAUST	100	15	3
3	20	100					35	C	36				SHP	100	15	3
3	125	225	TR-2				37	A	38					100	30	3
3	125	225	TR-2			67	39	B	40			11.5	SUEV-LIFT	100	30	3
3	125	225	TR-2				41	C	42					100	30	3

CONNECTED LOAD: 7.00 KVA LTG. + 66.00 KVA RECEPT. + 78.00 KVA MECH. = 171.00 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 7.00 KVA LTG. + 48.00 KVA RECEPT. + 58.50 KVA MECH. = 113.50 KVA TOTAL
195.49 AMPS / 136.58 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS

PANEL PP-2

VOLTAGE: 120/208V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 125A
FEEDER SIZE: SEE RISER
LOCATION: SERVICE BAY 128
CONDITION: NEW
VOLTAGE CODE: 5,36
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	RECEPTACLES			1.2	1	A	2	1.2			WELDER AREA REC	100	20	1
1	20	100	RECEPTACLES			1.2	3	B	4	1.2			WELDER AREA REC	100	20	1
1	20	100	RECEPTACLES			1.2	5	C	6				SPARE	100	20	1
1	20	100	RECEPTACLES			1.2	7	A	8	1.2			REC	100	20	1
1	20	100	WASH-BAY REC			1.2	9	B	10	1.2			REC	100	20	1
1	20	100	WASH-BAY REC			1.2	11	C	12	1			DOOR CONTROL	100	20	1
1	20	100	DRINKING FOUNTAIN		0.6		13	A	14	1			REC	100	20	1
1	20	100	SP-1		0.5		15	B	16	1			REC	100	20	1
3	20	100					17	C	18					100	20	1
3	60	100	WELDER REC			8.5	19	A	20	6.5			WELDER REC	100	60	2
3	60	100					21	B	22					100	60	2
3	40	100	MOHAWK TP-20		4.9		23	C	24	3.5			COATS TIRE CHANGER	100	20	2
2	40	100	4 HP ITEM 2				25	A	26				ITEM 14	100	20	2
2	40	100	MOHAWK TP-20		4.9		27	B	28					100	20	1
2	40	100	4 HP ITEM 2				29	C	30					100	20	1
1	20	100					31	A	32					100	40	3
1	20	100					33	B	34			10.8	MOHAWK LIFT MP-30	100	40	3
1	20	100					35	C	36				ITEM 16	100	40	3
1	10	100					37	A	38					100	30	3
3	10	100	COATS TIRE CHANGER		4.5		39	B	40	8.7			COATS TIRE CHANGER	100	30	3
3	10	100	ITEM 10				41	C	42				ITEM 11	100	30	3

CONNECTED LOAD: 0.00 KVA LTG. + 49.10 KVA RECEPT. + 21.70 KVA MECH. = 70.80 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 0.00 KVA LTG. + 29.55 KVA RECEPT. + 16.28 KVA MECH. = 45.83 KVA TOTAL
186.83 AMPS / 127.29 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS

PANEL HV-3

VOLTAGE: 277/480V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 200A MCB
FEEDER SIZE: SEE RISER
LOCATION: STORAGE BAY 134
CONDITION: NEW
VOLTAGE CODE: 5,631
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	LIGHTING			1.5	1	A	2				SPARE	100	20	1
1	20	100	LIGHTING			1.5	3	B	4				SPARE	100	20	1
1	20	100	SPARE				5	C	6				SPARE	100	20	1
1	20	100	SPARE				7	A	8				SPARE	100	20	1
1	20	100	SPARE				9	B	10				SPARE	100	20	1
1	20	100	SPARE				11	C	12				SPARE	100	20	1
1	30	100	SPARE				13	A	14				SPARE	100	20	1
1	30	100	SPARE				15	B	16				SPARE	100	20	1
3	20	100					17	C	18				SPARE	100	20	1
3	20	100	ROLL-UP DOORS				19	A	20					100	20	3
3	20	100					21	B	22					100	20	3
3	20	100					23	C	24					100	20	3
1		100	SPACE				25	A	26					100		1
1		100	SPACE				27	B	28					100		1
1		100	SPACE				29	C	30					100		1
1		100	SPACE				31	A	32					100		1
1		100	SPACE				33	B	34					100		1
1		100	SPACE				35	C	36					100		1
1		100	SPACE				37	A	38					100		1
1		100	SPACE				39	B	40					100		1
1		100	SPACE				41	C	42					100		1

CONNECTED LOAD: 3.00 KVA LTG. + 0.00 KVA RECEPT. + 0.00 KVA MECH. = 3.00 KVA TOTAL
DEMAND FACTOR: 1 / 0.6 / 0.75
DEMAND LOAD: 3.00 KVA LTG. + 0.00 KVA RECEPT. + 0.00 KVA MECH. = 3.00 KVA TOTAL
3.43 AMPS / 3.61 AMPS

NOTES:
* PROVIDE LOCK ON C.B. FOR THIS CKT
** RUN CIRCUIT VIA LIGHTING CONTROL RELAYS
*** REPLACE EXIST. C.B. WITH NEW PER SCHEDULES
**** PROVIDE GROUND FAULT INTERUPT TYPE C.B.
E = EXISTING CIRCUIT MAINTAIN CONTINUITY

PANEL PP-3

VOLTAGE: 120/208V
PHASE, WIRE: 3 PH, 4W
MOUNTING: SURFACE
MAINS RATING: 100A
FEEDER SIZE: SEE RISER
LOCATION: STORAGE BAY 134
CONDITION: NEW
VOLTAGE CODE: 5,36
EST. P.F.: 0.95

OPTIONS:
ISOLATED GROUND BUS
BONDED GROUND BUS
200% NEUTRAL
SHUNT TRIP MCB
COMPUTER FLOOR SKIRT WITH CONN. TO UFD
X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	REC			1.2	1	A	2	1.2			REC	100	20	1
1	20	100	REC			1.2	3	B	4	1.2			REC	100	20	1
1	20	100	REC			1.2	5	C	6	1.2			REC	100	20	1
1	20	100	REC ADD ALT.			1.2	7	A	8	1.2			REC ADD ALT.	100	20	1
1	20	100	SPARE				9	B	10				SPARE	100	20	1
1	20	100	SPARE				11	C	12				SPARE	100	20	1
1	20	100	REC			1.2	13	A	14				SPARE	100	20	1
2	20	100	MOBILE WORK STATION			1.8	15	B	16				SPARE	100	20

PANEL	PP-SALT
VOLTAGE	120/208V
PHASE, WIRE	3 PH, 4W
MOUNTING	SURFACE-NEMA 3R
MAINS RATING	100A
FEEDER SIZE	SEE RISER
LOCATION	SALT SHED
CONDITION	NEW
VOLTAGE CODE	5.36
SIST. P.F.	0.85

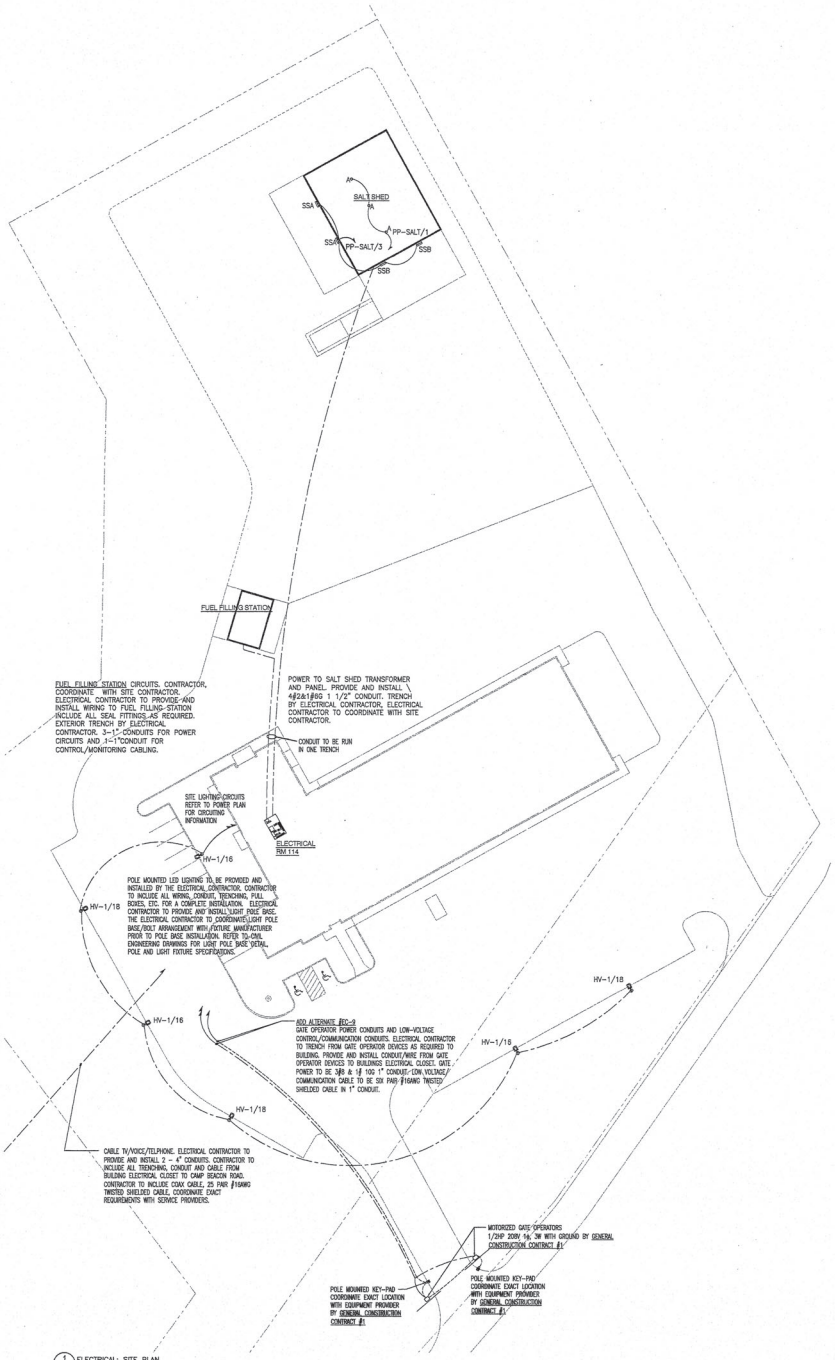
OPTIONS:
- ___ ISOLATED GROUND BUS
- ___ BONDED GROUND BUS
- ___ 200% NEUTRAL
- ___ SHUNT TRIP MCB
- ___ COMPUTER FLOOR SKIRT WITH CONN. TO UFD
- X DOOR- DOOR TRIM

22 KA INTERRUPTING RATING

POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEPT. KVA	LTG. KVA	CKT. NO.	PHASE	CKT. NO.	LTG. KVA	RECEPT. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	LIGHTING (5) A FIXTURES			1.5	1	A	2			1	MOTORIZED DOOR	100	20	1
1	20	100	LIGHTING (2) SSA FIXTURES			1.5	3	B	4			1	MOTORIZED DOOR	100	20	1
1	20	100	LIGHTING			1.5	5	C	6			1	MOTORIZED DOOR	100	20	1
1	20	100	LIGHTING			1.5	7	A	8				SPARE	100	20	1
1	20	100	SPARE				9	B	10				SPARE	100	20	1
1	20	100	SPARE				11	C	12				SPARE	100	20	1
1	20	100	SPARE				13	A	14				SPARE	100	20	1
1	20	100	SPARE				15	B	16				SPARE	100	20	1
1	20	100	SPARE				17	C	18				SPARE	100	20	1
1			SPACE				19	A	20				SPACE			1
1			SPACE				21	B	22				SPACE			1
1			SPACE				23	C	24				SPACE			1
1			SPACE				25	A	26				SPACE			1
1			SPACE				27	B	28				SPACE			1
1			SPACE				29	C	30				SPACE			1

CONNECTED LOAD		DEMAND FACTOR	DEMAND LOAD	
6.00	KVA LTG.	1	6.00	KVA LTG.
0.00	KVA RECEPT.	0.9	0.00	KVA RECEPT.
3.00	KVA MECH.	0.75	2.25	KVA MECH.
9.00	KVA TOTAL =	23.75 AMPS	8.25	KVA TOTAL = 22.92 AMPS

NOTES:
- * PROVIDE LOCK OR C.B. FOR THIS CKT
- ** PROVIDE CONDUITS WITH SEAL FITTINGS



1 ELECTRICAL: SITE PLAN
648/1/32" = 1'-0"

NLG ENGINEERING, PC
Professional Engineering Services
3062 Route 9W, Suite 500
New Windsor, New York 12553
Phone : 845.562.7005
Fax : 845.562.7007

Nicholas L. Guglielmucci, PE
N.Y.S. PE LIC. NO. 077854

NO	DESCRIPTION	DATE
1		

REVISIONS

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UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL SEAL IS A VIOLATION OF THE N.Y. STATE EDUCATION LAW.

PROJECT NAME:
CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

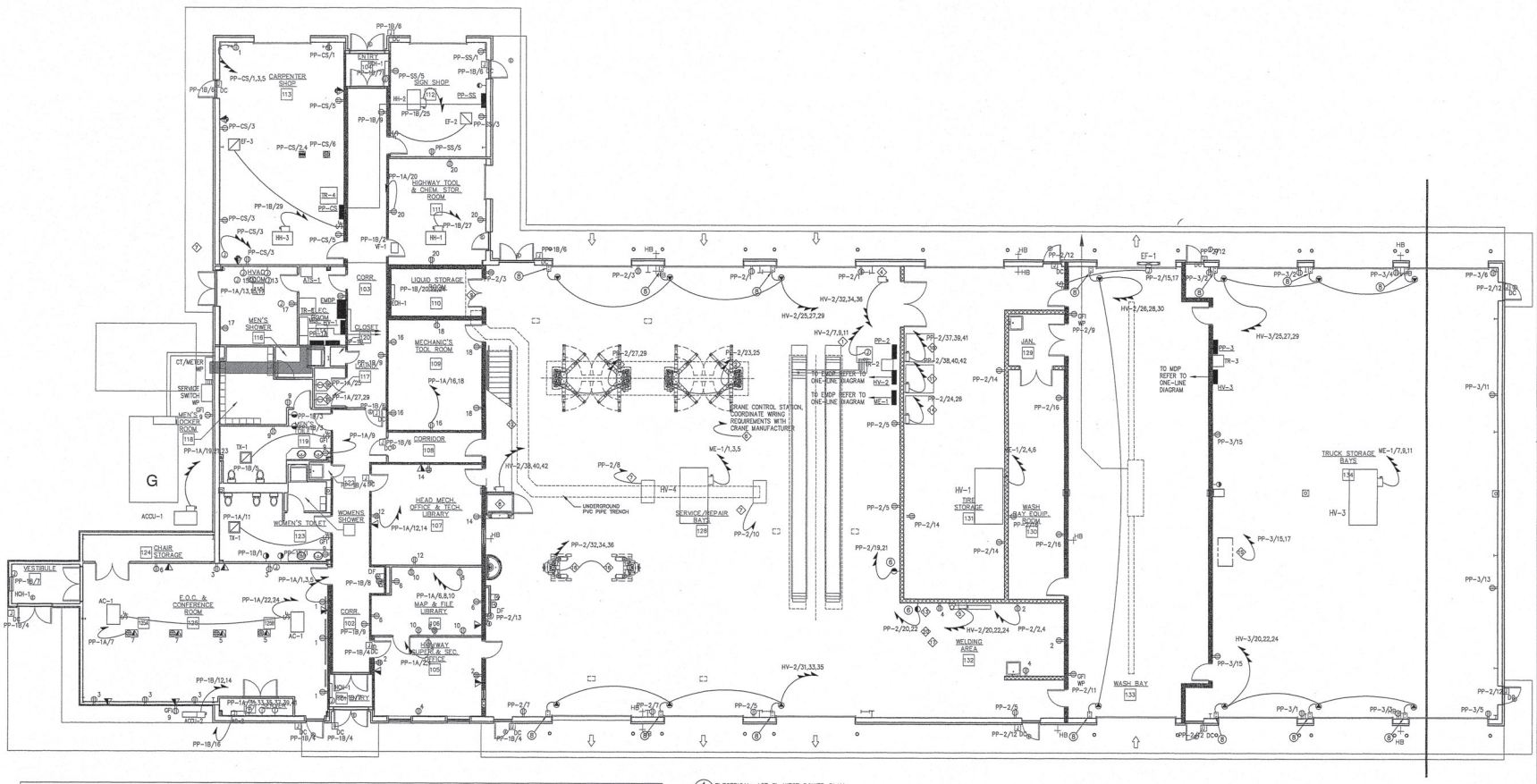
APPLICABLE CONTRACT(S) NO.

DRAWING TITLE
ELECTRICAL: SITE PLAN/FUELING STATION/SALT SHED

RONALD V. COSENTINO, R.A.
NEW YORK STATE REGISTERED ARCHITECT LIC. NO. 020277

cosentino
ARCHITECTURE, PLLC
Architects, Program Managers & Client Advocates
LEED Accredited Professional and USGBC Member
815 BLOOMING GROVE TURNPIKE, SUITE 401
NEW WINDSOR, NEW YORK 12553
TEL.: (845) 562-2320 FAX: (845)565-4709

DATE	DRAWING NO.
12.8.14	E-0.6
PROJECT NO. 1562	
SET NO.	SHEET NO. OF



1 ELECTRICAL: 1ST FL WEST POWER PLAN
3/32" = 1'-0"

SERVICE EQUIPMENT SCHEDULE (FURNISHED BY OTHERS)

ID	MANUFACTURER	DESCRIPTION	MODEL #	COMP. AIR	HP	VOLATGE	PHASE	HERTZ	REMARKS
BASE BID (FURNISHED & INSTALLED)									
◇	MOHAWK	PARALLELOGRAM LIFT	100-42-F	NO	20 HP	460V	3 PH	60 HZ	100,000 LB LIFTING CAPACITY
◇	MOHAWK	2 POST LIFT	TP-20	NO					20,000 LB LIFTING CAPACITY
◇	INGERSOLL RAND	ROTARY SCREW AIR COMPRESSOR	UP6-10TAS-125	YES	10 HP				38 SCFM @ 125 PSIG
◇	MONOXIVENT	FLAT BLADE CENTRIFUGAL BLOWER	BI SERIES	NO	5 HP	460V	3 PH	60 HZ	3,600 CFM MOTOR
◇	MONOXIVENT		D SERIES / D-15	NO	1.5 HP				14" ARM
◇	NORTH AMERICAN	UNDER-HUNG 5 TON CRANE		NO					LIFTING CAPACITY 5 TONS
◇	SHURE	REEL CABINET SRC-36	#800164						8 REEL CAPACITY UPGRADE
◇	SHURE	WASHER FLUID HOSE REEL		NO					
◇	SHURE	AIR HOSE REEL		YES					
◇	SHURE	GASOLINE ENGINE OIL HOSE REEL		NO					
◇	SHURE	DIESEL ENGINE OIL HOSE REEL		NO					
◇	SHURE	GREASE HOSE REEL		NO					
◇	SHURE	ELECTRIC HOSE REEL		NO					
◇	SHURE	HYDRAULIC OIL HOSE REEL		NO					
◇	SHURE	DROP LIGHT HOSE REEL		NO					
◇	GARAVENTA	GENESIS VERTICAL PLATFORM LIFT	GVL-EN-144	NO					W/ ENCLOSURE
◇	U.S. PLASTIC CORP.	8 DRUM WORKSTATION 77 GAL. SUMP CAPACITY	2713						100"W X 53.25"D X 6"H
ADD ALTERNATE #SEC-1									
◇	COATS	HEAVY DUTY TIRE CHANGER	CHD-6330	YES	2.0 HP	230V	3 PH	60 HZ	15 AMPERES
◇	COATS	HEAVY DUTY WHEEL BALANCER W/ WHEEL LIFT	6450-3D	YES	1.5 HP	230V	3 PH		30 AMPERES
◇	CPS PRODUCTS	REFRIGERANT RECOVERY RECYCLING RECHARGING UNIT	CPS FA1234						
◇		H-FRAME HYDRAULIC PRESS							
ADD ALTERNATE #SEC-2									
◇	COATS	LIGHT DUTY TIRE CHANGER	7065EX	YES		220V	1 PH		
◇	SHOP-PRO	MOBILE WORK STATION	4920	NO	3/4 HP	115V			2,400 CFM MOTOR
◇	MOHAWK	MOBILE LIFT	MP-30	NO		208V			30,000 LB LIFTING CAPACITY
◇		FLAME PROOF WELDING SCREEN							
◇		WASHER							
◇		DRYER							
◇	MOHAWK	HIGH RISE TIRE DOLLY	TD-1000AH	YES					COUNTERBALANCED

ITEMS INSTALLED IN

NOTE: ITEM ◇ MOBILE LIFT TO BE EQUIPPED W/ SAFETY WEIGHT GAUGE & PENDANT CONTROL
NOTE: ITEM ◇ 2 POST LIFT TO BE EQUIPPED W/ SAFETY WEIGHT GAUGE & SWING ARM SAFETY HEAD GUARD
NOTE: LIQUID STORAGE ROOM DRUMS SUPPLIED BY OWNER

NOTES:

1. HAND DRYER – 208V, 1ø. COORDINATE WITH ARCHITECT.
2. EXACT LOCATION & MOUNTING DETAILS OF ALL DEVICES AND OUTLETS SHALL BE VERIFIED WITH ARCHITECT'S DOCUMENTS.
3. DRAWING INDICATES DIAGRAMMATIC WIRING AND CIRCUIT DESIGNATIONS TO RECEPTACLES & DEVICES. FURNISH & INSTALL ALL WIRING AND CONDUITS AS REQUIRED FOR FULLY WORKABLE SYSTEM.
4. ALL HOMERUNS, U.O.N. ON THE PLAN & SCHEDULES SHALL BE AS FOLLOWS:
   - #10 NEUTRAL WIRE PER 3 PHASES.
   - #10 PHASE WIRE
   - #12 GROUND WIRE.
5. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS SCOPE INSTALLATION OF SECURITY DEVICES AS FOLLOWS:
   - INSTALL BACK BOXES, CONDUITS AND JUNCTION BOXES FOR CARD READERS, DOOR RELEASE, CCTV CAMERAS & EQUIPMENT.
   - REFER TO ARCHITECT'S DRAWINGS FOR DOORS DESIGNATION, HARDWARE SCHEDULE & EQUIPMENT LOCATION. COORDINATE EXACT LOCATION OF SECURITY DEVICES WITH ARCHITECT.
   - PRIOR TO BID COORDINATE EXACT SCOPE OF WORK WITH GENERAL CONTRACTOR AND SECURITY CONTRACTOR.
6. WELDER OUTLET, COORDINATE OCP AND RECEPTACLE TYPE/ NEMA RATING WITH OWNER AND WELDER PROVIDER.
7. ALL RECEPTACLES IN SERVICE BAYS TO BE GFCI TYPE AND MOUNTED AT 48"AFF. U.O.N.
8. PUSH-BUTTON CONTROL FOR POWERED ROLL DOWN DOORS. CONTRACTOR TO INCLUDE ALL FIELD WIRING FROM CONTROL STATION TO DOOR MOTOR. DOOR MOTOR 460V, 3 PHASE. REFER TO PLANS FOR CIRCUITING. COORDINATE WITH DOOR MANUFACTURER.
9. REFER TO ARCHITECTURAL PLANS FOR EQUIPMENT ADD ALTERNATE INFORMATION.

NLG ENGINEERING, PC
Professional Engineering Services
3052 Route 9W, Suite 500
New Windsor, New York 12553
Phone : 845.562.7005
Fax : 845.562.7007

Nicholas L. Guglielminetti, PE
N.Y.S. PE LICENSE NO. 079834

NO	DESCRIPTION	DATE
1		

REVISIONS

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PROJECT NAME:
CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.

DRAWING TITLE
ELECTRICAL: 1ST FL WEST POWER PLAN

RONALD V. COSENTINO, R.A.
NEW YORK AND MASSACHUSETTS
ARCHITECT REG. NO. 020277

cosentino
ARCHITECTURE, PLLC
Architects, Program Managers & Client Advocates
LEED Accredited Professional and USGBC Member
TEL (845) 562-2320 FAX (845) 565-4708

DATE	DRAWING NO.
12.8.14	E-2.0
PROJECT NO. 1582	
SET NO.	SHEET NO. OF

PANEL	PP-1C
VOLTAGE	120/208V
PHASE, WIRE	3 PH, 4W
MOUNTING	SURFACE
MAINS RATING	100A
FEEDER SIZE	SEE RISER
LOCATION	MEZZANINE
CONDITION	NEW
VOLTAGE CODE	0.38
EST. P.F.	0.95

OPTIONS:

- ISOLATED GROUND BUS
- BONDED GROUND BUS
- 200% NEUTRAL
- SHUNT TRIP MCB
- COMPUTER FLOOR SKRT WITH CONN. TO UPD
- X DOOR - DOOR TRIM

22 KA INTERRUPTING RATING

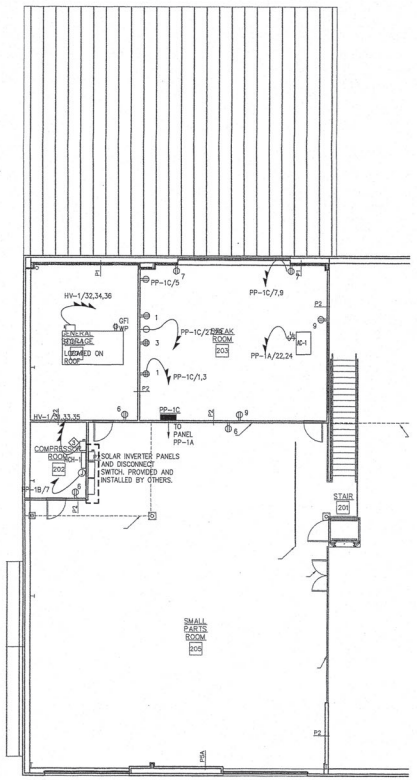
POLES	AMPS TRIP	FRAME SIZE	LOAD SERVED	MECH. KVA	RECEP. KVA	LTG. KVA	CKT NO.	PHASE	CKT NO.	LTG. KVA	RECEP. KVA	MECH. KVA	LOAD SERVED	FRAME SIZE	AMPS TRIP	POLES
1	20	100	BREAK ROOM		0.6		1	A	2		0.8		BREAK ROOM	100	20	1
1	20	100	BREAK ROOM		1.2		3	B	4		0.6		BREAK ROOM	100	20	1
1	20	100	BREAK ROOM		0.8		5	C	6		0.8		PARTS ROOM	100	20	1
1	20	100	BREAK ROOM		0.8		7	A	8				SPARE	100	20	1
1	20	100	BREAK ROOM		0.8		9	B	10				SPARE	100	20	1
1	20	100	SPARE				11	C	12				SPARE	100	20	1
1	20	100	SPARE				13	A	14				SPARE	100	20	1
1	20	100	SPARE				15	B	16				SPARE	100	20	1
1	20	100	SPARE				17	C	18				SPARE	100	20	1
1	20	100	SPARE				19	A	20				SPACE			1
1	20	100	SPARE				21	B	22				SPACE			1
1	20	100	SPARE				23	C	24				SPACE			1
1	20	100	SPARE				25	A	26				SPACE			1
2	50	100	RANGE		6		27	B	28				SPACE			1
2	50	100					29	C	30				SPACE			1

CONNECTED LOAD		DEMAND FACTOR	DEMAND LOAD	
0.00	KVA LTG.	1	0.00	KVA LTG.
12.60	KVA RECEPT.	0.5	11.30	KVA RECEPT.
0.00	KVA MECH.	0.75	0.00	KVA MECH.
12.60	KVA TOTAL =	33.25 AMPS	11.30	KVA TOTAL = 31.39 AMPS

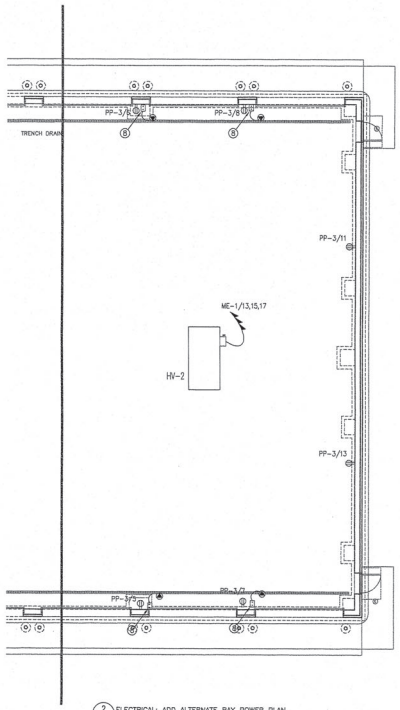
NOTES:

* PROVIDE LOCK ON C.B. FOR THIS CKT

** PROVIDE CONDUITS WITH SEAL FITTINGS



3 ELECTRICAL: MEZZANINE POWER PLAN
E-2.1 1/8" = 1'-0"



2 ELECTRICAL: ADD ALTERNATE BAY POWER PLAN
E-2.1 3/32" = 1'-0"

NOTES:

1. HAND DRYER – 208V, 1ø. COORDINATE WITH ARCHITECT.
2. EXACT LOCATION & MOUNTING DETAILS OF ALL DEVICES AND OUTLETS SHALL BE VERIFIED WITH ARCHITECT'S DOCUMENTS.
3. DRAWING INDICATES DIAGRAMMATIC WIRING AND CIRCUIT DESIGNATIONS TO RECEPTACLES & DEVICES. FURNISH & INSTALL ALL WIRING AND CONDUITS AS REQUIRED FOR FULLY WORKABLE SYSTEM.
4. ALL HOMERUNS, U.O.N. ON THE PLAN & SCHEDULES SHALL BE AS FOLLOWS:
   - #10 NEUTRAL WIRE PER 3 PHASES.
   - #10 PHASE WIRE
   - #12 GROUND WIRE.
5. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS SCOPE INSTALLATION OF SECURITY DEVICES AS FOLLOWS:
   - INSTALL BACK BOXES, CONDUITS AND JUNCTION BOXES FOR CARD READERS, DOOR RELEASE, CCTV CAMERAS & EQUIPMENT.
   - REFER TO ARCHITECT'S DRAWINGS FOR DOORS DESIGNATION, HARDWARE SCHEDULE & EQUIPMENT LOCATION. COORDINATE EXACT LOCATION OF SECURITY DEVICES WITH ARCHITECT.
   - PRIOR TO BID COORDINATE EXACT SCOPE OF WORK WITH GENERAL CONTRACTOR AND SECURITY CONTRACTOR.
6. WELDER OUTLET, COORDINATE OCP AND RECEPTACLE TYPE/ NEMA RATING WITH OWNER AND WELDER PROVIDER.
7. ALL RECEPTACLES IN SERVICE BAYS TO BE GFCI TYPE AND MOUNTED AT 48"AFF. U.O.N.
8. PUSH-BUTTON CONTROL FOR POWERED ROLL DOWN DOORS. CONTRACTOR TO INCLUDE ALL FIELD WIRING FROM CONTROL STATION TO DOOR MOTOR. DOOR MOTOR 460V, 3 PHASE. REFER TO PLANS FOR CIRCUITING. COORDINATE WITH DOOR MANUFACTURER.
9. REFER TO ARCHITECTURAL PLANS FOR EQUIPMENT ADD ALTERNATE INFORMATION.

NLG ENGINEERING, PC
Professional Engineering Services
3062 Route 9W, Suite 500
New Windsor, New York 12553
Phone : 845.562.7005
Fax : 845.562.7007

Nicholas L. Guglielmineti, PE
N.Y.S. PE LIC. NO. 077854

NO	DESCRIPTION	DATE
1		

REVISIONS

THE PLANS AND SPECIFICATIONS HEREIN ARE INTENDED FOR THE SUBJECT PROJECT ONLY AS A RESULT OF CONTRACTURAL NEGOTIATIONS BETWEEN THE CLIENT NOTED AND COSENTINO ARCHITECTURE, PLLC. THESE PLANS AND SPECIFICATIONS ARE THE SUBJECT OF A COPYRITE PETITION AND MAY NOT BE REVISED OR REUSED BY ANYONE WITHOUT THE WRITTEN AUTHORITY OF COSENTINO ARCHITECTURE, PLLC.

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PROJECT NAME:

CITY OF BEACON
HIGHWAY FACILITY
BEACON, NY

APPLICABLE CONTRACT(S) NO.

DRAWING TITLE
ELECTRICAL: 1ST FL EAST & MEZZ. POWER PLANS

RONALD V. COSENTINO, R.A.
NEW YORK STATE REGISTERED ARCHITECT LIC. NO. 020277

cosentino
ARCHITECTURE, PLLC
Architects, Program Managers & Client Advocates
LEED Accredited Professional and USGBC Member

TEL: (845) 562-2320 FAX: (845) 565-4709

DATE	DRAWING NO.
12.8.14	E-2.1
PROJECT NO. 1562	
SET NO.	SHEET NO. OF

Builder/Contractor Responsibilities

Drawing Validity – These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings – Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice Sept 86 Section 4.2.1)(Mar 05 Section 4.4.1)

Code Official Approval – It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Building Erection – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector (AISC Code of Standard Practice Sept 86 Section 7.9.1) (Mar 05 Section 7.10.3) (CSA/S16-09 Section 29).

Discrepancies – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice Sept 86 Section 3.3) (Mar 05 Section 3.3)

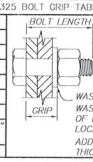
Materials by Others – All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturers assumptions will govern.

Modification of the Metal Building from Plans – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design
The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 06 Sections 3.2.2 and A3)

BUILDING DESCRIPTIONS				
Building ID	Width	Length	Height	Slope
Building A	81'-10	229'-8	21'-0	3:12
Building B	39'-6	49'-2	14'-2	3:12
Building C	15'-5	99'-4	4'-8⅛	3:12

¾" ø A325 BOLT GRIP TABLE	
GRIP	LENGTH
0 TO 9/16"	1 1/4" F.T.
Over 9/16" TO 1 1/16"	1 3/4" F.T.
Over 1 1/16" TO 1 5/16"	2"
Over 1 5/16" TO 1 9/16"	2 1/4"
Over 1 9/16" TO 1 13/16"	2 1/2"
Over 1 13/16" TO 2 1/16"	2 3/4"
LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS	
F.T. DENOTES FULLY THREADED	



NOTE:
FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.

WASHER REQUIRED ONLY WHEN SPECIFIED.
WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

STAR BUILDING SYSTEMS®
AN NCI COMPANY

For questions regarding the interpretation of the drawings, materials provided, or assembly of the parts:
- Call 1-800-879-7827 and ask for the "Field Service" department.
- Before or after normal hours, you may send an email to OKCSField.Service@StarBuildings.net. Please include the order no., brief description of the question, & contact name and phone number.

ENGINEERING DESIGN CRITERIA

Building Code ..... 2010 NEW YORK
Occupancy Category ..... Normal (Category II)
Roof Dead Load
Superimposed ..... 5.98 psf (Bldg A)
4.90 psf (Bldg B)
4.90 psf (Bldg C)
Collateral ..... 12.00 psf (Bldg A, C)
(2.00 psf Acoustical Ceiling 10.00 psf Other)
5.00 psf (Bldg B)
(5.00 psf Other)
Roof Live Load ..... 20.00 psf no reduction

Snow
Ground Snow Load (Pg) ..... 30.00 psf
Snow Load Importance Factor (I) 1.00
Flat Roof Snow Load (Pf) ..... 21.00 psf (per code)
Minimum Roof Snow Load (Pf) .. 30.00 psf (used in design)
Snow Exposure Factor (Ce) 1.0
Thermal Factor (Ct) 1.00

Wind
Basic Wind Speed ..... 90.00 mph
Wind Importance Factor (I) ... 1.00
Wind Exposure Category ..... B
Internal Pressure Coef (GCpi) 0.18/-0.18
Loads for components not provided by building manufacturer
Corner Areas (within 8.18' of corner) 14.57 psf pressure -19.51 psf suction
Other Areas 14.57 psf pressure -15.80 psf suction
These values are the maximum values required based on a 10 sq ft area.
Components with larger areas may have lower wind loads.

Seismic
Seismic Importance Factor (Ie) 1.00
Seismic Design Category ..... B
Site Soil Class ..... D Stiff Soil
Ss ..... 0.285 g Sds ..... 0.299 g
S1 ..... 0.067 g Sd1 ..... 0.107 g
Analysis Procedure ..... Equivalent Lateral Force
Column Line (Bldg A) All
Basic Force Resisting System H
Response Modification Coefficient (R) 3.00
Seismic Response Coefficient (Cs) 0.09
Design Base Shear in kips (V) 64.98
Column Line (Bldg B) All
Basic Force Resisting System H
Response Modification Coefficient (R) 3.00
Seismic Response Coefficient (Cs) 0.10
Design Base Shear in kips (V) 1.63
Basic Structural System (From ASCE 7-05 Table 12.2-1)
H - Steel System not Specifically Detailed for Seismic Resistance

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length. The limits shown are at service loads unless indicated otherwise.

BUILDING DEFLECTION LIMITS... : BLDG-A, B, C,

Ceiling Type : Acoustical or Other

Roof Limits	Rafters	Purlins	Panels
Live L/	240	240	240
Snow L/	240	240	240
Wind L/	240	240	240
Total Gravity L/	240	240	240
Total Uplift L/	240	240	240

Frame Limits	Sidesway	Portal Frame Sidesway
Live H/	200	
Snow H/	200	
Wind H/	200	
Seismic Drift H/	40	40
Total Gravity H/	200	
Total Wind H/	200	200
Service Seismic H/	200	200

Wall Limits	Limit
Total Wind Panels L/	240
Total Wind Girts L/	240
Total Wind EW Columns L/	240

The Service Seismic limit as shown here is at service level loads.

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, ASTM A1011 SS, or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. Material properties of hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with a minimum specified yield point of 50 ksi. Hot rolled angles, other than flange braces, conform to ASTM 36 minimum. Hollow structural shapes conform to ASTM A500 grade B, minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS. Material properties of cold-formed light gage steel members conform to the requirements of ASTM A1011 SS Grade 55, ASTM A1011 HSLAS Grade 55 Class 1, ASTM A653 SS Grade 55, or ASTM A653 HSLAS Grade 55 Class 1 with a minimum yield point of 55 ksi. For Canada, material properties conform to CAN/CSA G40.20/G40.21 or equivalent.

All bolted joints with A325 Type 1 bolts are specified as snug-tightened joints in accordance with the Specification for Structural Joints Using ASTM A325 or A490 Bolts, December 31, 2009. Pre-tensioning methods, including turn-of-nut, calibrated wrench, twist-off-type tension-control bolts or direct-tension-indicator are NOT required. Installation inspection requirements for Snug Tight Bolts (Specification for Structural Joints Section 9.1) is suggested.

Using 7x7 gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method outlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building sidewalls at a spacing not to exceed the following
Building A : 72 feet on center, 36 feet from ends.
Building B : 96 feet on center, 28 feet from ends.
Downspout spacing that does not exceed the maximum spacing will be in compliance with the building code. The gutter and downspout system as provided by the manufacturer is designed to accomodate 5 in/hr rainfall intensity as it corresponds to a 5 year recurrence interval.

The design collateral load has been uniformly applied to the design of the building. Hanging loads are to be attached to the purlin web. This may not be appropriate for heavily concentrated loads. Any attached load in excess of 150 pounds shall be accounted for by special design performed by a licensed engineer using concentrated loads and may require separate support members within the roof system.

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the wall framing provided by the manufacturer.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

Support for the 6" curb wall by others is not by the manufacturer.

The stairway loading by others may not exceed 1000# dead load. Loading on the stairway platform may not exceed the mezzanine loading applied to the floor system.

The collateral load shall be attached to the bottom chord of the barjoists at panel points only.

The application of mezzanine loads different from those described below could void warranties and certifications as they apply to the material supplied by metal building manufacturer.
Dead Load 20 psf
Live Load 125 psf
Collateral load 5 psf
Partition load 20 psf

25% of the mezzanine live load has been included in the calculation of the seismic forces.

Materials supplied by metal building manufacturer for this mezzanine have not been evaluated for vibration serviceability due to human activities, including effects on sensitive equipment.

The walk door canopy framing by others may not exceed a total weight of 500# each. Tie-in is not by the manufacturer. The girts provided by the manufacturer have not been designed to sustian gravity loading due to the canopy framing by others. Sub-framing if required for the gravity load transfer to the foundation is not by the manufacturer.

The material provided by the manufacturer has been designed to support the following roof loads which are suspended from the roof purlins. The load is to be located as shown without any allowed adjustment. The load is to be supported by a minimum of (2) purlin rows with a maximum of 2/3 of the load applied to a single purlin row. The load is to be attached to the purlin web only. Tie-in is not by the manufacturer.

Load	Bay	Dist FL	Dist Side A
1254#	4	10'0	60'11
756#	6	17'4	60'11

The material provided by the manufacturer has been designed to support an 1145# located in bay 9, 8'0 from the frame line and 60'11 from side A. The load is to be supported by field located beams provided. Tie-in is not by the manufacturer.

Drawing Index

Page	Description
E1	Cover Sheet
E2	Roof Framing All BLDGs
E3	Roof Sheeting
E4	Roof Liner Sheeting & Soffit
E5	Building A WALL SWA
E6	Building A WALL SWC
E7	Buildings A and B WALL EWB
E8	Building A WALL EWD
E9	Building B WALL SWC and EWD
E10	Building C Clerestory Structure WALL SWC
E11	Building C Clerestory Structure WALL EWB and EWD
E12	MEZZANINE FRAMING PLAN & GENERAL DETAILS
E13-E24	Main Frame Cross Sections
E25	Portal Frame Cross Section 15 FRAMELINEA-SWA
E26	Portal Frame Cross Section 12 FRAMELINEB-SWC
E27	Connection Detail
E28-E30	MEZZANINE SECTIONS & DETAILSs
E31	Sections and Details
R1-R20	Erection Guides
R21	Trim Profiles

Revision	Date	Description	By	Ck'd

STAR BUILDING SYSTEMS®
P.O. BOX 94910 OKLAHOMA CITY, OK 73143
AUTHORIZED SIGNATURE (405) 235-2575

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by: LSR 1/22/16
Checked by: LSA 1/22/16
Project Engineer: MJD
Job Number: 15-B-10248
Sheet Number: E1 of 31

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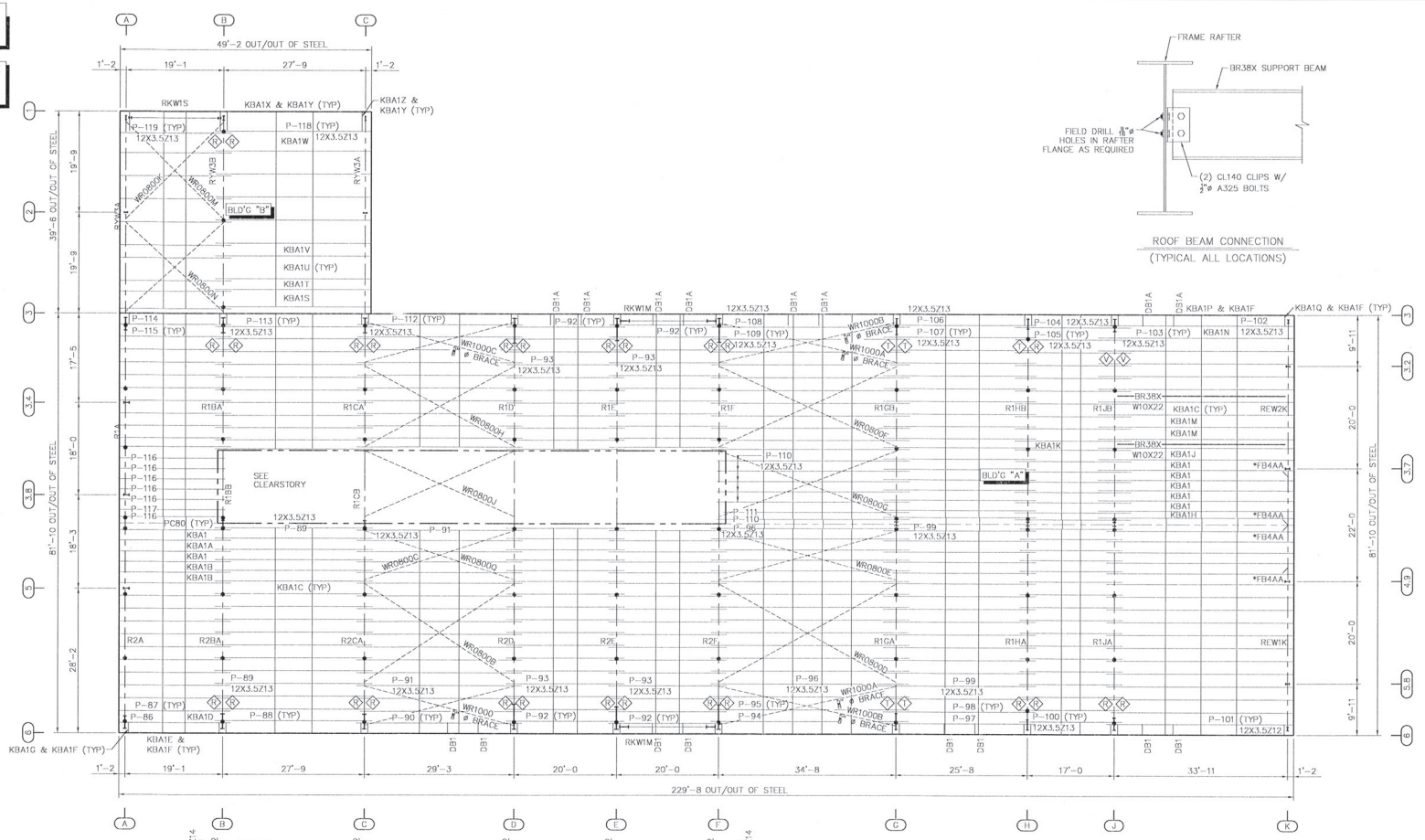
Aaron Kent Batchellar, P.E.
New York P.E. 084702
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STATE OF NEW YORK
AARON KENT BATCHELLAR
084702
LICENSED PROFESSIONAL ENGINEER
JANUARY 22, 2016

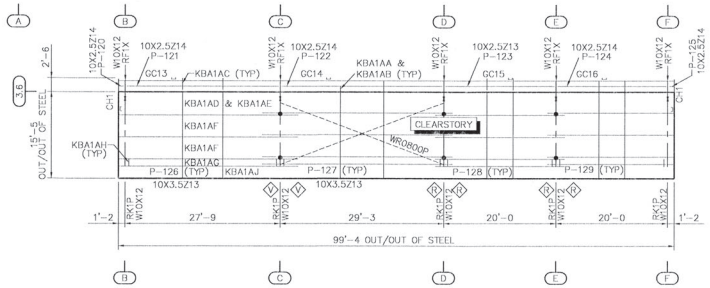
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● – DENOTES: CLIP LOCATION
SC90 AT 8" PURLINS
SC92 AT 10" PURLINS
SC94 AT 12" PURLINS

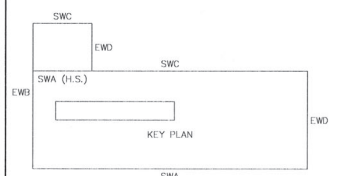
* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS



ROOF BEAM CONNECTION
(TYPICAL ALL LOCATIONS)



ROOF FRAMING PLAN
ZEE'S ARE 12X3.5Z14 (TYP UNO)
ROD BRACE ARE ⅝"ø (TYP UNO)



ROOF FRAMING PLAN
CLEARSTORY
ZEE'S ARE 10X3.5Z14 (TYP UNO)
ROD BRACE ARE ⅝"ø (TYP UNO)
EAVE CHANNELS ARE 10X3.5C14 (TYP UNO)

Z_SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
S	0'-2" (3")	U	2'-4"(2'-5")
R	1'-4"(1'-5")	V	3'-0"(3'-1")

Revision	Date	By	Ck'd
Description			

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ANTC COMPANY
P.O. BOX 94910
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Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E2 of 31

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Aaron Kent Batcheller, P.E.
New York P.E. 084702

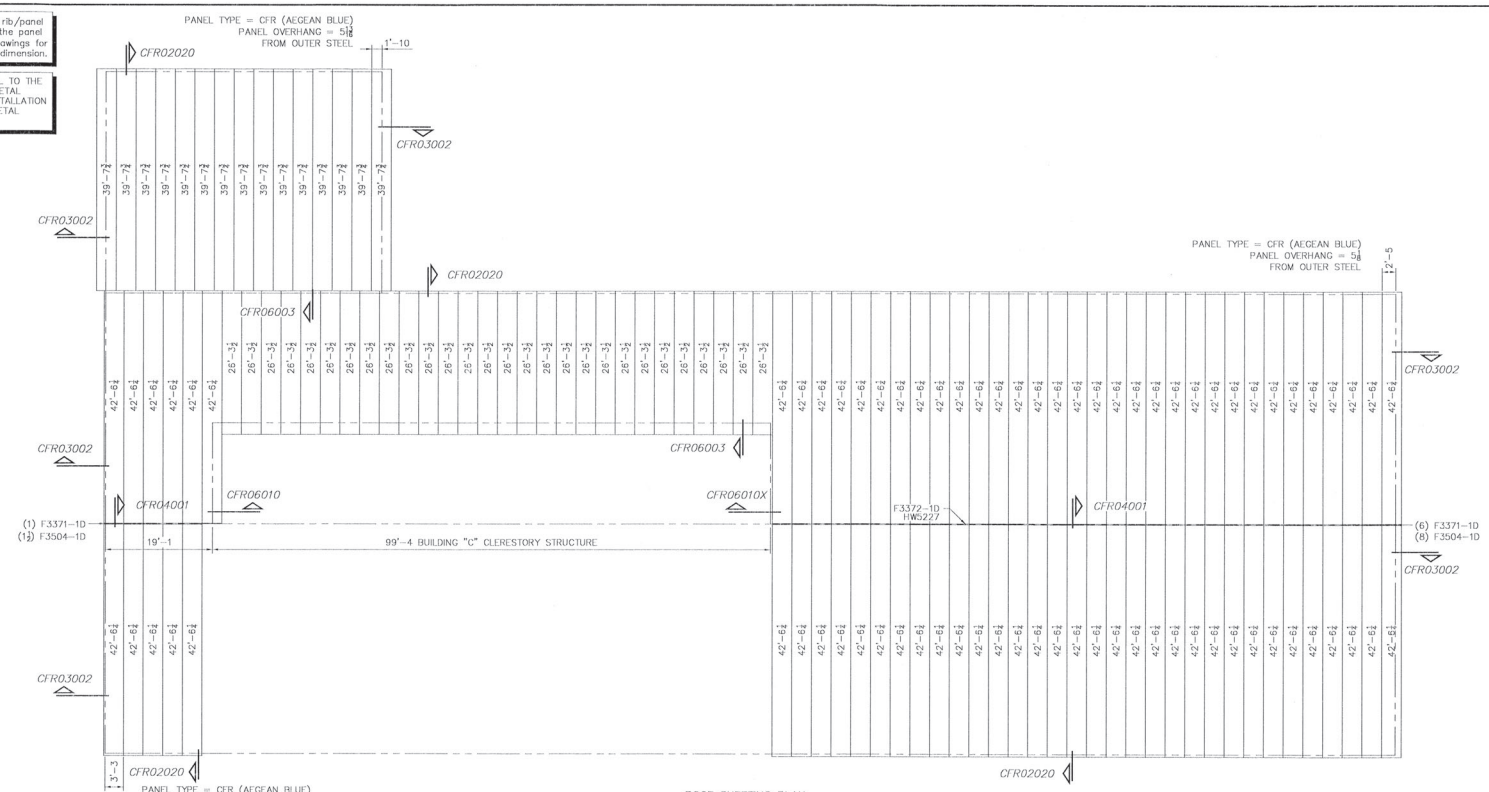
DRSTA ENSTA

STATE OF NEW YORK
AARON KENT BATCHELLER
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

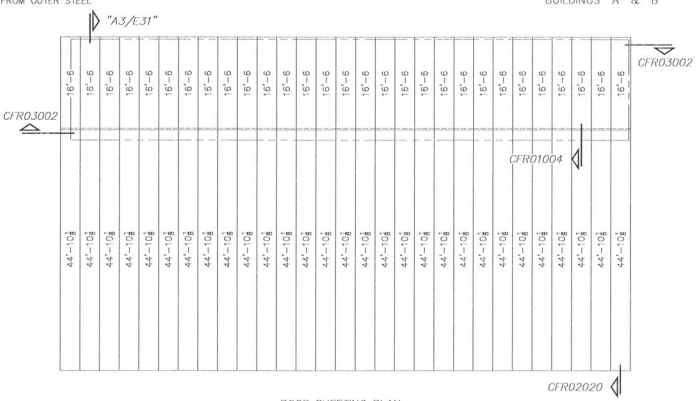
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Dimension shown on sheeting layout is from steel line to ℄ of rib/panel seam at the end of the first panel and is NOT the dimension the panel should be cut. Refer to the rake/corner details on the "R" drawings for the panel overhang past steel line to determine the panel cut dimension.

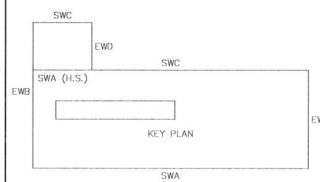
NOTE: ALIGNMENT OF ROOF AND WALL SECONDARIES IS CRITICAL TO THE OVERALL PERFORMANCE AND APPEARANCE OF AN INSULATED METAL PANEL SYSTEM. SEE SHEETING PLAN AND ELEVATIONS FOR INSTALLATION GUIDELINES. ALIGNMENT IS NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER.



ROOF SHEETING PLAN
BUILDINGS "A" & "B"



ROOF SHEETING PLAN
BUILDING "A" AT BUILDING "C"
CLERESTORY STRUCTURE





DOWNSPOUT LAYOUT
[3 REQ'D] AT BUILDING "B"



DOWNSPOUT LAYOUT
[7 REQ'D] BUILDING "A" "SWA"
[7 REQ'D] BUILDING "A" "SWC"

Revision	Date	Description	By	Ck'd

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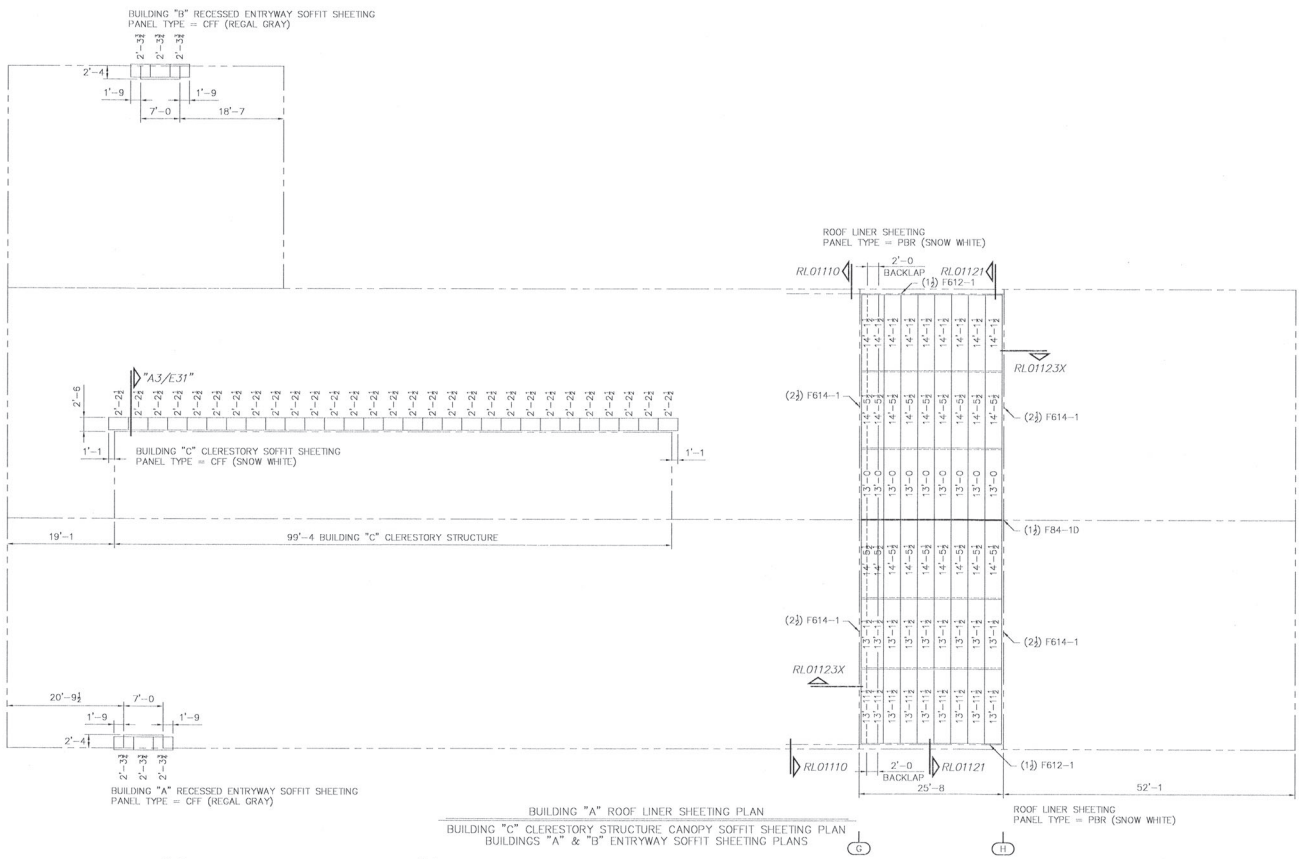
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Aaron Kent Batchellar, P.E.
New York P.E. 084702

DIRSTTA ENSTTIA

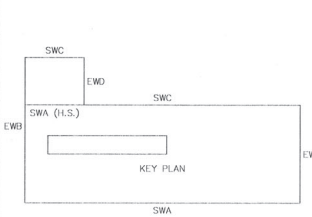
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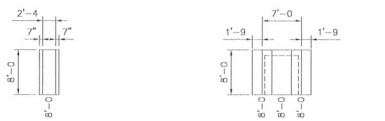
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BUILDING "A" ROOF LINER SHEETING PLAN

BUILDING "C" CLERESTORY STRUCTURE CANOPY SOFFIT SHEETING PLAN
BUILDINGS "A" & "B" ENTRYWAY SOFFIT SHEETING PLANS





RETURN WALL SHEETING LAYOUT
(4) REQUIRED

RECESS WALL SHEETING LAYOUT
(2) REQUIRED

BUILDING "A" & "B" ENTRYWAY WALL SHEETING PLAN
REFER TO INDIVIDUAL WALL ELEVATIONS FOR FLASH LAYOUTS
PANEL TYPE = CFF (REGAL GRAY)

Revision	Date	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 6610
PONCA CITY, OK 74603
(405) 635-3010

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E4 of 31

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Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER
JAN 22, 2016

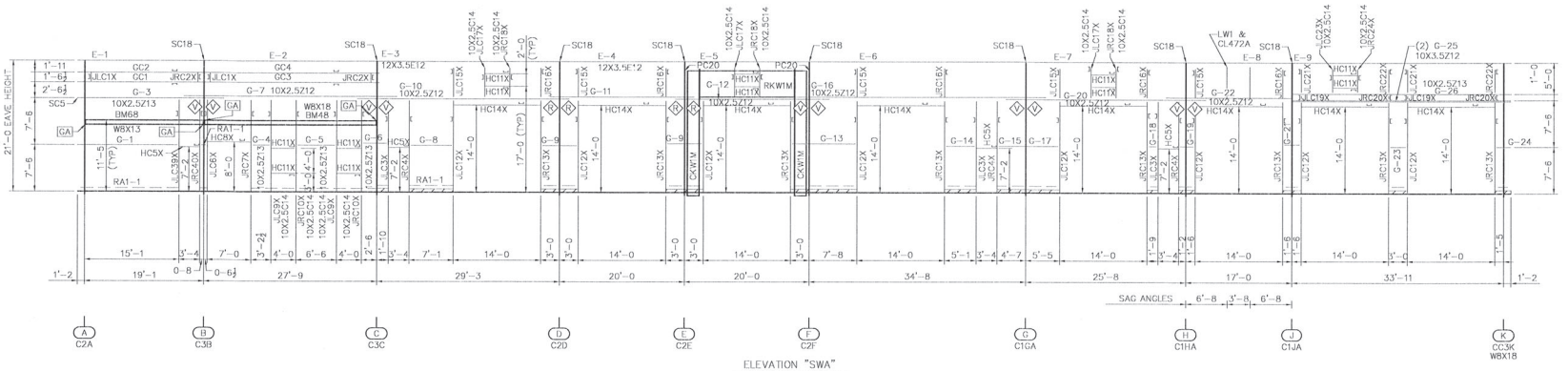
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MANUFACTURER HAS SUPPLIED SUFFICIENT VAPOR SEALANT FOR APPLICATION TO ONE SIDE OF WALL PANEL LAP JOINT. ACTUAL LOCATION OF THE SIDELAP VAPOR SEALANT (INTERIOR JOINT OR EXTERIOR JOINT) MUST BE DETERMINED BY THE MECHANICAL ENGINEER AND/OR ARCHITECT OF RECORD.

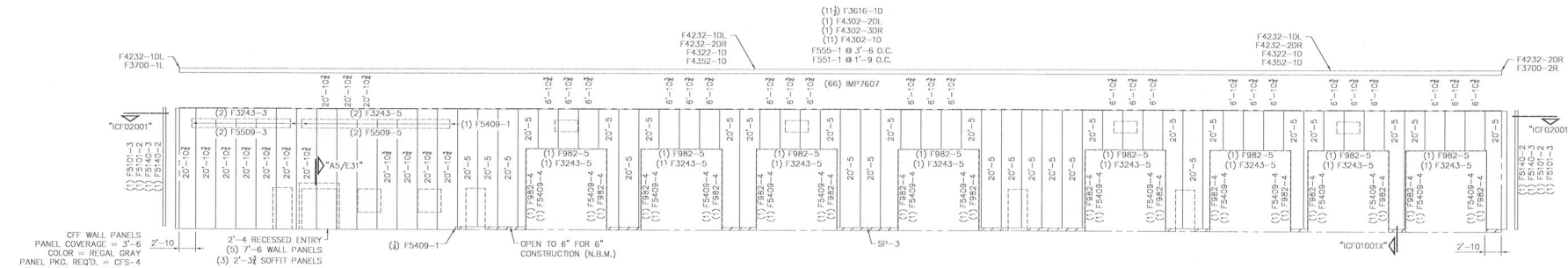
Dimension shown on sheeting layout is from steel line to ℄ of rib/panel seam at the end of the first panel and is NOT the dimension the panel should be cut. Refer to the rake/corner details on the "R" drawings for the panel overhang past steel line to determine the panel cut dimension.

NOTE: ALIGNMENT OF ROOF AND WALL SECONDARIES IS CRITICAL TO THE OVERALL PERFORMANCE AND APPEARANCE OF AN INSULATED METAL PANEL SYSTEM. SEE SHEETING PLAN AND ELEVATIONS FOR INSTALLATION GUIDELINES. ALIGNMENT IS NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER.

SPLICE BOLT TABLE					
CONN.	QTY.	SIZE	TYPE	HARDENED BEVELED WASHERS	CLIPS
GA	(2) ¾	X 1½	A325 B&N	0	0



ELEVATION "SWA"
BUILDING "A"
ZEE'S 10X2.5Z14 (TYP UNO)
CEE'S 10X2.5Z14 (TYP UNO)
JAMBS 10X3.5C14 (TYP UNO)
HEADERS/SILLS 10X2.5C14 (TYP UNO)
EAVE STRUTS 12X3.5E14 (TYP UNO)



CFF WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = REGAL GRAY
PANEL PKG. REQ'D. = CFS-4
Field Cut Panel and Trim as required per Construction Details

2'-4 RECESSED ENTRY
(5) 7'-6 WALL PANELS
(3) 2'-3½ SOFFIT PANELS



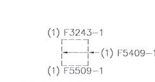
7'-0 X 8'-0 RECESSED ENTRYWAY
FLASH LAYOUT AT EXTERIOR WALL

7'-0 X 8'-0 RECESSED ENTRYWAY
FLASH LAYOUT AT 2'-4 RECESSED WALL

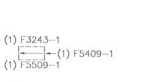


6070 PRE-ASSEMBLED (N.B.M.) WALKDOOR
FLASH LAYOUT AT RECESSED ENTRYWAY
(1) REQUIRED

WALL SHEETING ELEVATION "SWA"
BUILDING "A"



4'-0 X 4'-0 4-SIDED F.O.
TYPICAL FLASH LAYOUT
(2) REQUIRED

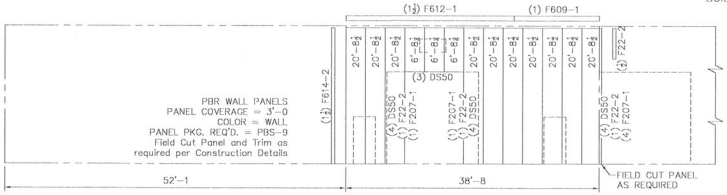


4'-0 X 2'-0 4-SIDED F.O.
TYPICAL FLASH LAYOUT
(4) REQUIRED

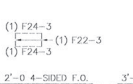


3'-4 X 7'-2 3-SIDED F.O.
TYPICAL FLASH LAYOUT
(4) REQUIRED

Z_SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
S	0'-2" (3¾")	1	2'-4"(2'-5¾")
2	1'-4"(1'-5¾")	4	3'-0"(3'-1¾")



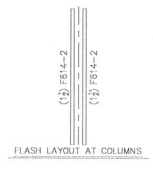
LINER SHEETING ELEVATION "SWA"
BUILDING "A"
(AS VIEWED FROM "SWC")



4'-0 X 2'-0 4-SIDED F.O.
LINER FLASH LAYOUT



3'-4 X 7'-2 3-SIDED F.O.
TYPICAL LINER FLASH LAYOUT
(2) REQUIRED



FLASH LAYOUT AT COLUMNS

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 9480
OKLA. CITY, OK 73143
(405) 636-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E5 of 31

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Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER

Jan 22, 2016

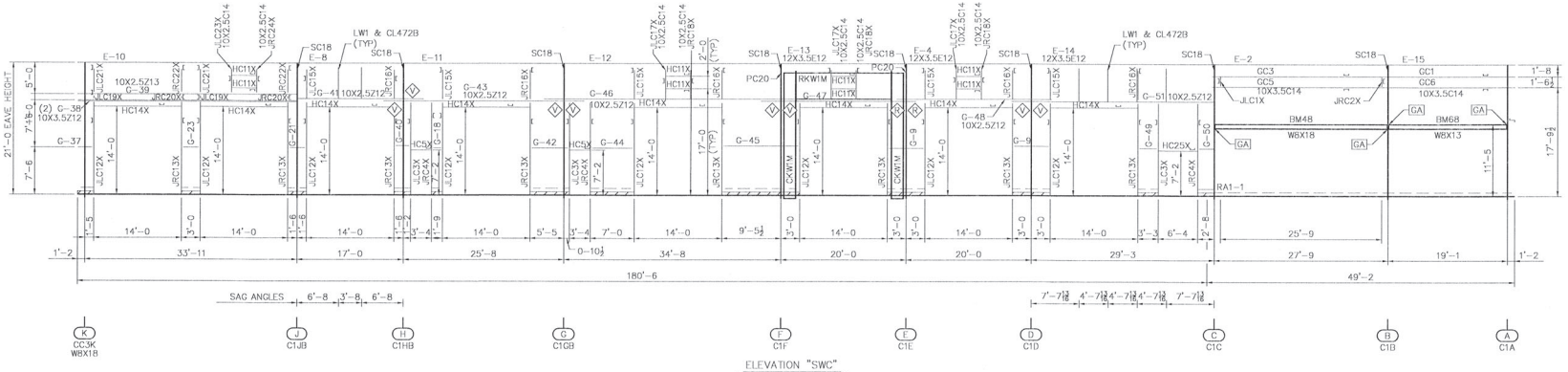
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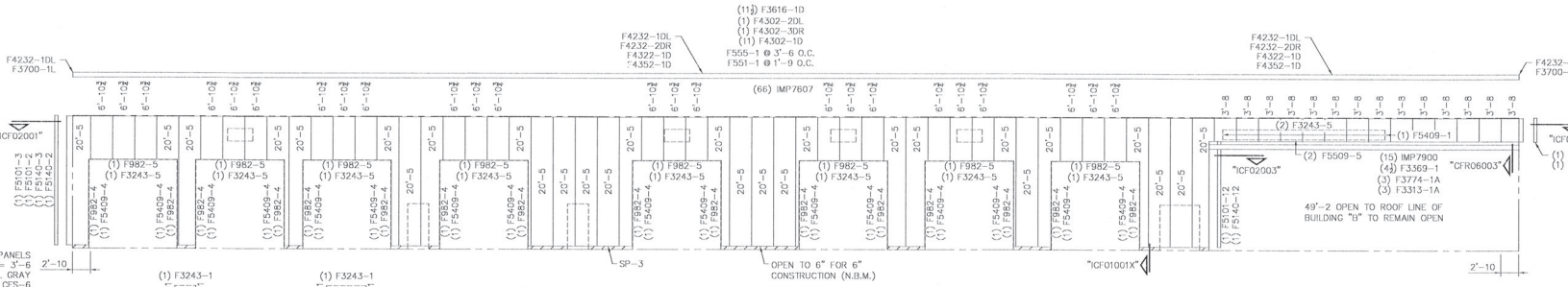
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SPLICE BOLT TABLE					
CONN.	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS	CLIPS
GA	(2) ¾ X 1½	A325 B&N	0	0	





CFF WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = REGAL GRAY
PANEL PKG. REQ'D. = CFS-6
Field Cut Panel and Trim as required per Construction Details



WALL SHEETING ELEVATION "SWC"
BUILDING "A"



Z_SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
◇	0'-2" (3¾")	◇	2'-4"(2'-5¾")
◇	1'-4"(1'-5¾")	◇	3'-0"(3'-1¾")

PBR WALL PANELS
PANEL COVERAGE = 3'-0
COLOR = WALL
PANEL PKG. REQ'D. = PBS-10
Field Cut Panel and Trim as required per Construction Details

LINER SHEETING ELEVATION "SWC"
BUILDING "A"

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 54910
OKLAHOMA CITY, OK 73154
(405) 816-3010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E6 of 31

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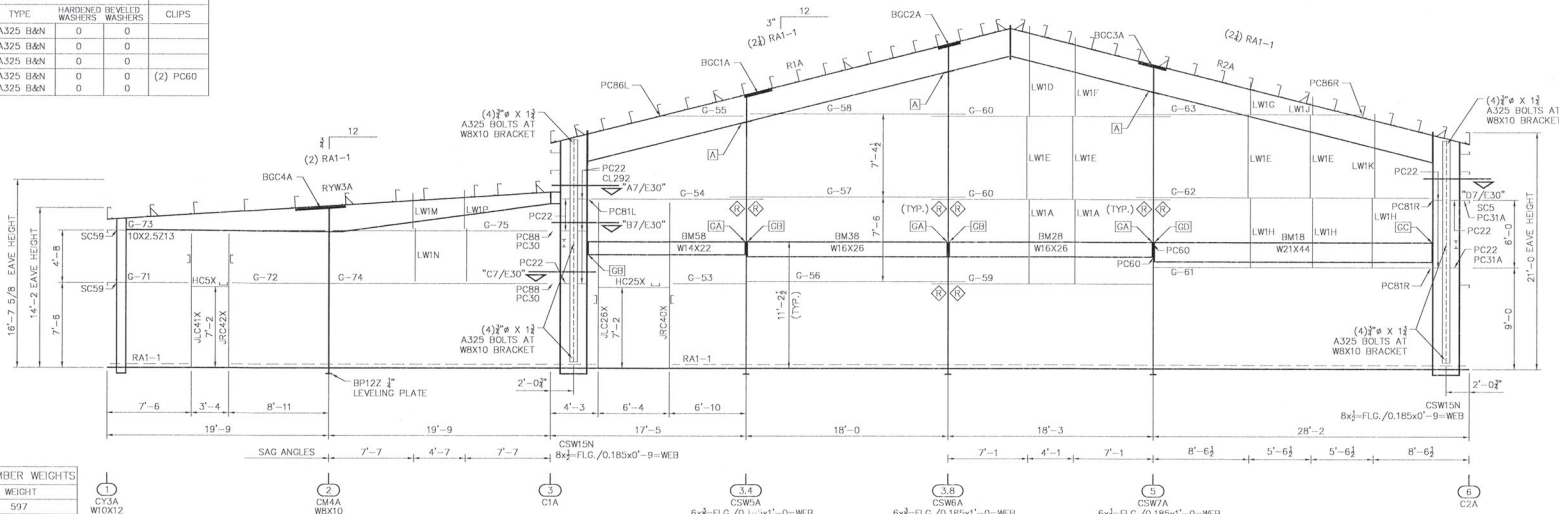
Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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SPLICE BOLT TABLE				
CONN.	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS	CLIPS
GA	(3) ¾ X 1½	A325 B&N	0	0	
GB	(3) ¾ X 1½	A325 B&N	0	0	
GC	(10) ¾ X 2"	A325 B&N	0	0	
GD	(5) ¾ X 2 (10) ¾ X 1½	A325 B&N A325 B&N	0 0	0 0	(2) PC60



APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
CSW5A	597
CSW6A	698
CSW7A	785
C1A	1115
C2A	1027
R1A	1164
R2A	1088
CM4A	181
CY3A	186
RYW3A	834

SPLICE BOLT TABLE				
CONN.	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(4) ¾ X 1½	A325 B&N	4	0

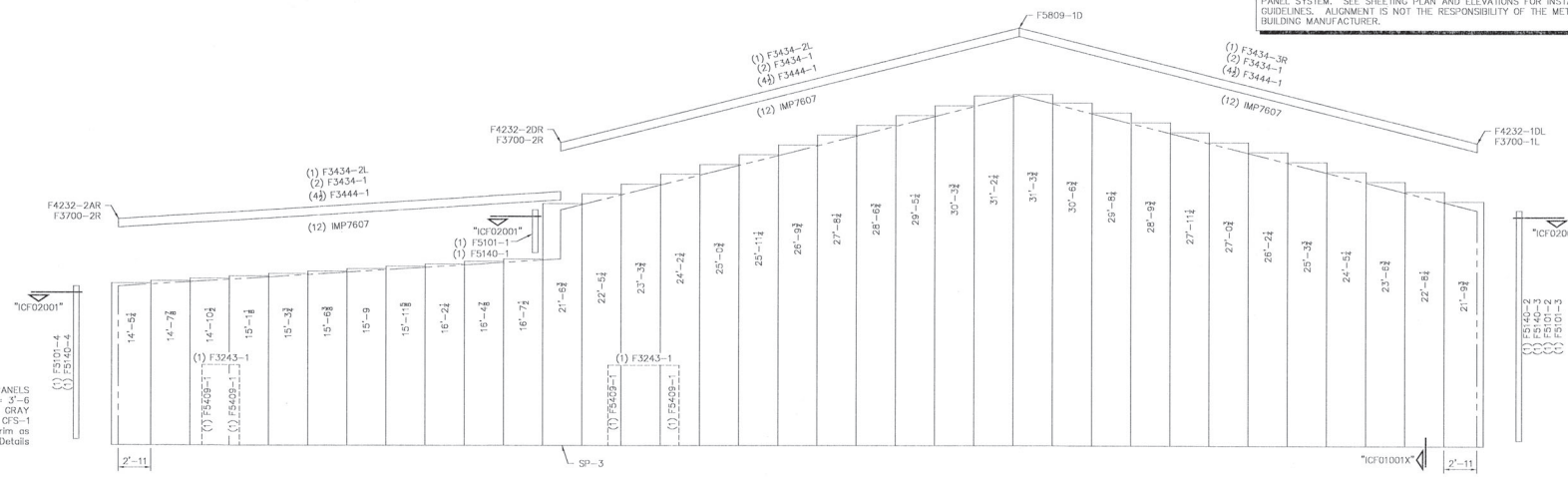
* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

ELEVATION "EWB"
BUILDING "B" & "A"
GIRTS 10X2.5Z14 (TYP UN)
JAMBS 10X3.5C14 (TYP UN)
HEADER/SILLS 10X2.5C14 (TYP UN)

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CFF WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = REGAL GRAY
PANEL PKG. REQ'D. = CFS-1
Field Cut Panel and Trim as required per Construction Details

Z_SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
◇	0'-2" (3¾")	◇	2'-4"(2'-5¾")
◇R	1'-4"(1'-5¾")	◇X	3'-0"(3'-1¾")

WALL SHEETING ELEVATION "EWB"
BUILDINGS "A" & "B"

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 8480
OKLAHOMA CITY, OK 73143
(405) 636-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E7 of 31

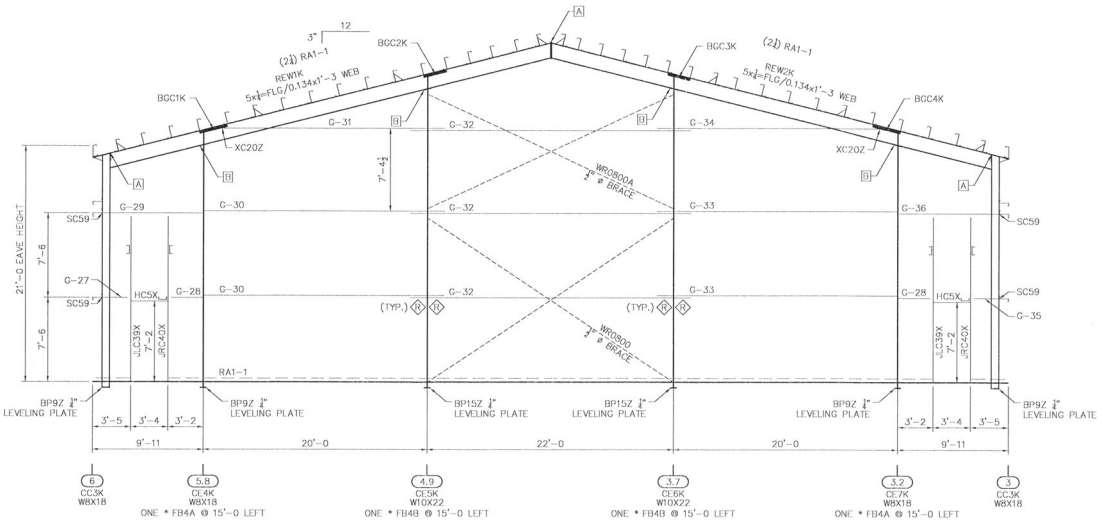
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Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
Jun 22, 2016

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ELEVATION "EWD"
BUILDING "A"
GIRT 10X2.5Z14 (TYP UN)
JAMBS 10X3.5C14 (TYP UN)
HEADERS/SILLS 10X2.5C14 (TYP UN)

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
CC3K	397
CE4K	431
CE5K	632
CE6K	632
CE7K	431
REW1K	706
REW2K	709

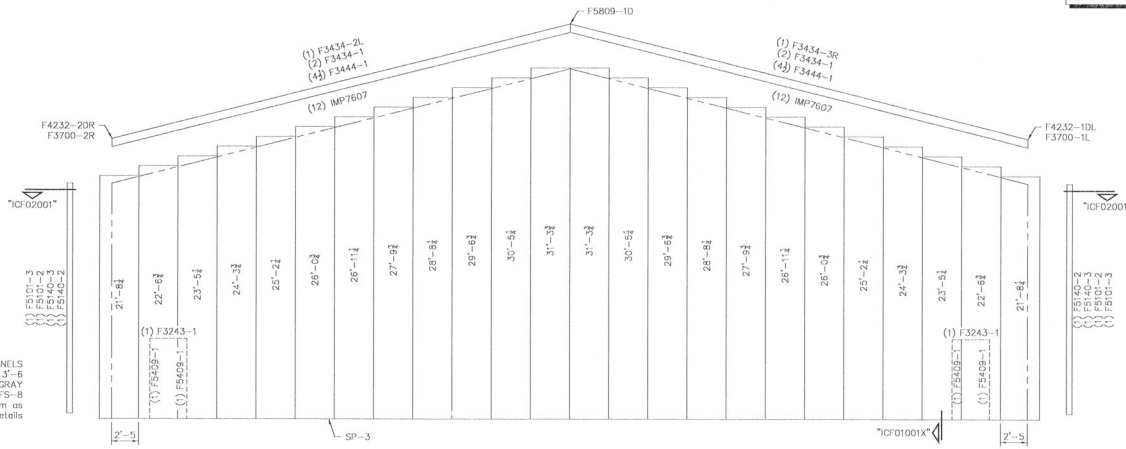
SPLICE BOLT TABLE				
CONN.	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(4) ¾ X 2"	A325 B&N	0	0
B	(4) ¾ X 1¾	A325 B&N	4	0

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

MANUFACTURER HAS SUPPLIED SUFFICIENT VAPOR SEALANT FOR APPLICATION TO ONE SIDE OF WALL PANEL LAP JOINT. ACTUAL LOCATION OF THE SIDELAP VAPOR SEALANT (INTERIOR JOINT OR EXTERIOR JOINT) MUST BE DETERMINED BY THE MECHANICAL ENGINEER AND/OR ARCHITECT OF RECORD.

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CFF WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = REGAL GRAY
PANEL PKG. REQ'D. = CFS-8
Field Cut Panel and Trim as required per Construction Details

WALL SHEETING ELEVATION "EWD"
BUILDING "A"

Z_SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
S	0'-2" (3¾")	T	2'-4"(2'-5¾")
R	1'-4"(1'-5¾")	V	3'-0"(3'-1¾")

No.	Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
ANTHEM COMPANY
P.O. BOX 9493
OKLAHOMA CITY, OK 73143
(405) 634-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ Permit (Not For Construction)
☐ Cer. Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E8 of 31

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New York P.E. 084702

DRSITA ENSITA

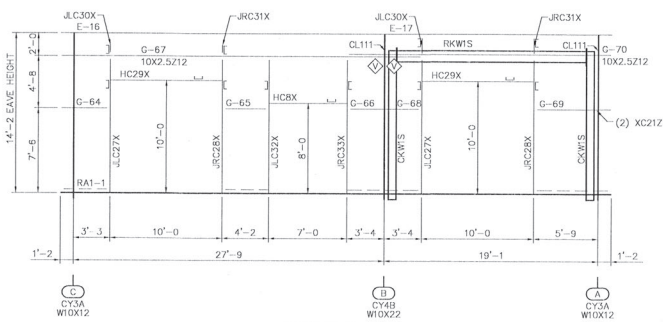
STATE OF NEW YORK
AARON KENT BATCHELLER
084702
LICENSED PROFESSIONAL ENGINEER
JAN 22, 2016

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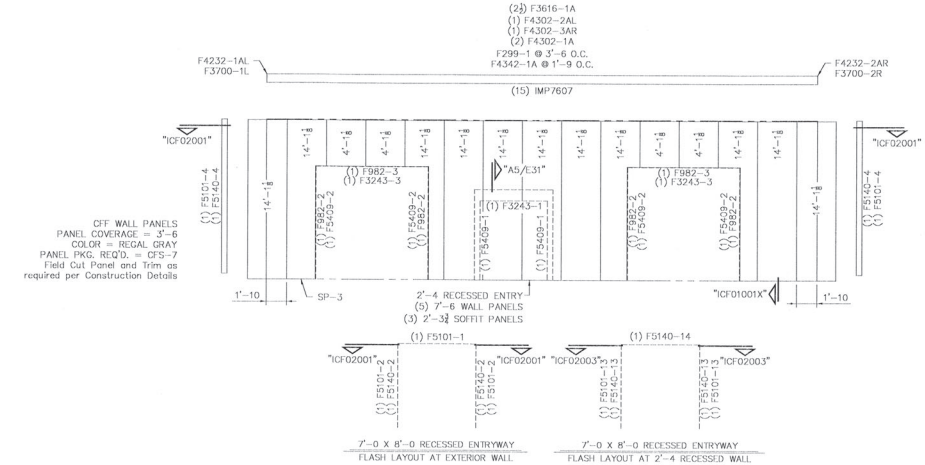
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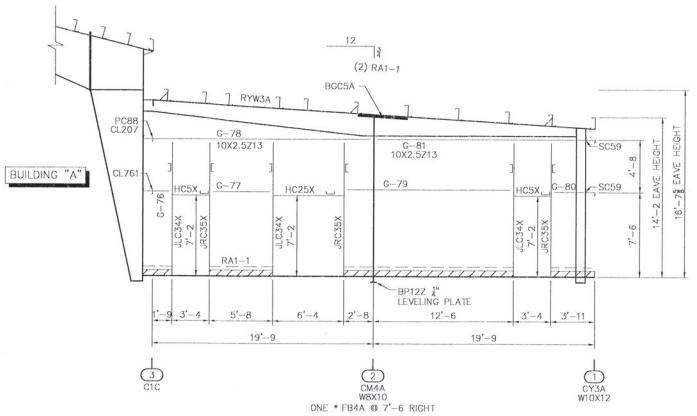


ELEVATION "SWC"
BUILDING "B"
ZEE'S 10X2.5Z14 (TYP UNO)
JAMBS 10X3.5C14 (TYP UNO)
HEADER/SILLS 10X2.5C14 (TYP UNO)
EAVE STRUTS 12X3.5E14 (TYP UNO)



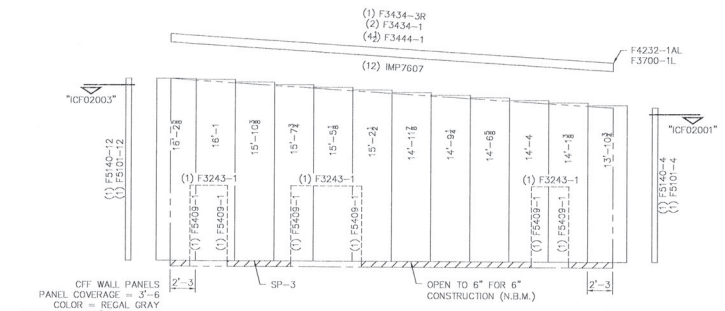
CFF WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = REGAL GRAY
PANEL PKG. REQ'D. = CFS-7
Field Cut Panel and Trim as required per Construction Details

WALL SHEETING ELEVATION "SWC"
BUILDING "B"



ONE * FB4A @ 7'-6 RIGHT

ELEVATION "EWD"
BUILDING "B"
ZEE'S 10X2.5Z14 (TYP UNO)
JAMBS 10X3.5C14 (TYP UNO)
HEADER/SILLS 10X2.5C14 (TYP UNO)



CFF WALL PANELS
PANEL COVERAGE = 3'-6
COLOR = REGAL GRAY
PANEL PKG. REQ'D. = CFS-3
Field Cut Panel and Trim as required per Construction Details

WALL SHEETING ELEVATION "EWD"
BUILDING "B"

Z_SECTION LAP TABLE

SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
S	0'-2" (3⅜")	T	2'-4"(2'-5⅜")
R	1'-4"(1'-5⅜")	V	3'-0"(3'-1⅜")

Rev'd	By	Description	Date

ASTAR BUILDING SYSTEMS
MANUFACTURING
P.O. BOX 84612
OKLAHOMA CITY, OK 73143
(405) covered-2213

Customer: STEEL SOLUTIONS INC
Project Name & Location: CITY OF BEACON
BEACON, NY
RAVENA, NY
Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection/Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E9 of 31

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER

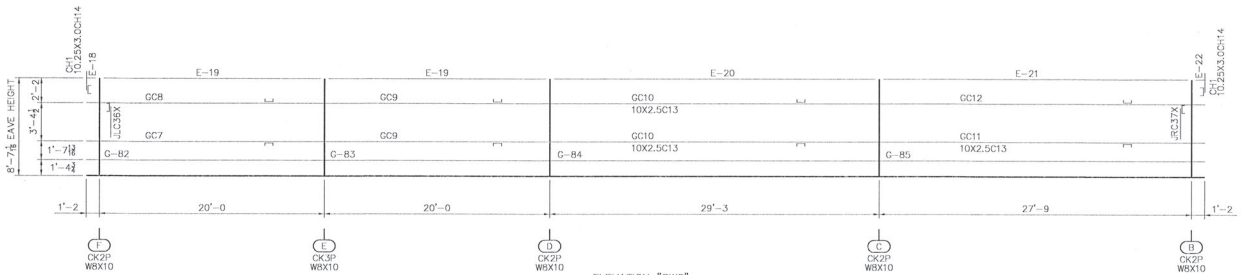
JAN 22, 2016

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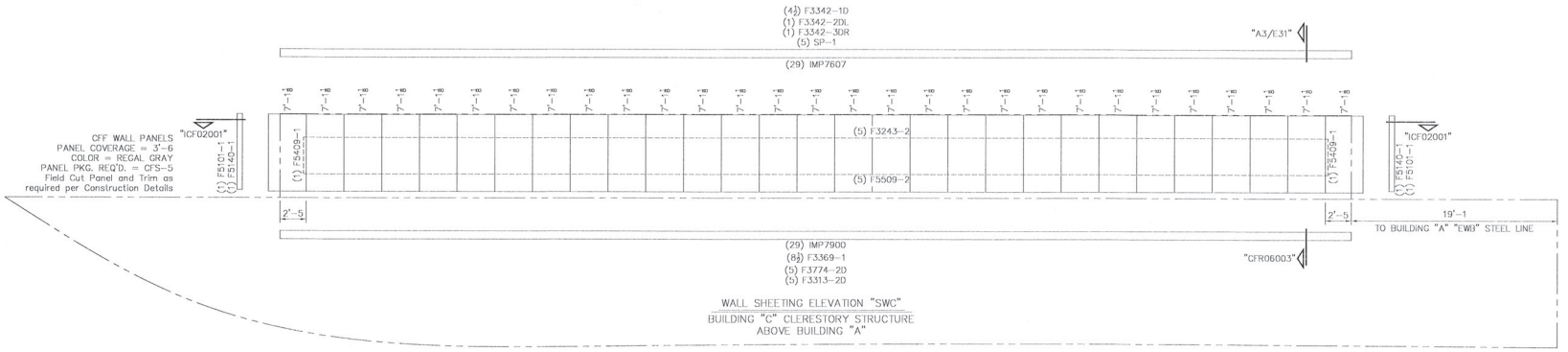
MANUFACTURER HAS SUPPLIED SUFFICIENT VAPOR SEALANT FOR APPLICATION TO ONE SIDE OF WALL PANEL LAP JOINT. ACTUAL LOCATION OF THE SIDELAP VAPOR SEALANT (INTERIOR JOINT OR EXTERIOR JOINT) MUST BE DETERMINED BY THE MECHANICAL ENGINEER AND/OR ARCHITECT OF RECORD.

Dimension shown on sheeting layout is from steel line to ℄ of rib/panel seam at the end of the first panel and is NOT the dimension the panel should be cut. Refer to the rake/corner details on the "R" drawings for the panel overhang past steel line to determine the panel cut dimension.

NOTE: ALIGNMENT OF ROOF AND WALL SECONDARIES IS CRITICAL TO THE OVERALL PERFORMANCE AND APPEARANCE OF AN INSULATED METAL PANEL SYSTEM. SEE SHEETING PLAN AND ELEVATIONS FOR INSTALLATION GUIDELINES. ALIGNMENT IS NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER.



ELEVATION "SWC"
CLEARSTORY
CEE'S 10X2.5C14 (TYP UNO)
ZEE'S 10X2.5Z14 (TYP UNO)
JAMBS 10X2.5C14 (TYP UNO)
EAVE STRUTS 10X3.5E14 (TYP UNO)



WALL SHEETING ELEVATION "SWC"
BUILDING "C" CLERESTORY STRUCTURE
ABOVE BUILDING "A"

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 9480
OKLAHOMA CITY, OK 73143
(405) 818-2010

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location: CITY OF BEACON
BEACON, NY

Drawing Status:
- Preliminary (Not For Construction)
- For Approval (Not For Construction)
- For Construction Permit
- For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E10 of 31

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Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK — AARON KENT BATCHELOR — 084702 — LICENSED PROFESSIONAL ENGINEER

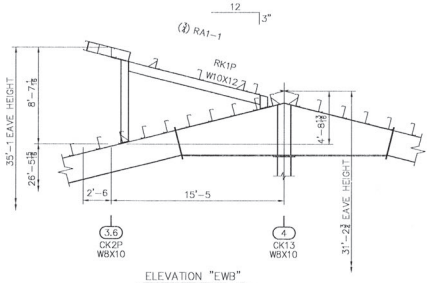
JAN 22, 2016

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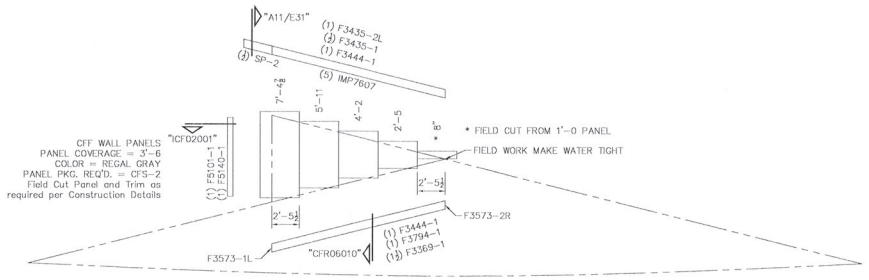
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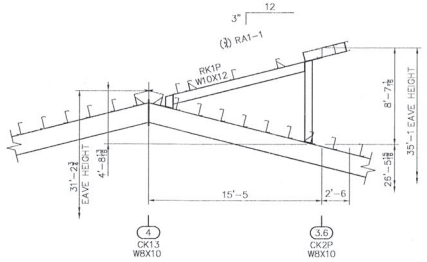


ELEVATION "EWB"
CLEARSTORY

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
CK13	29
CK23	96
RK13	170
RF5A	71

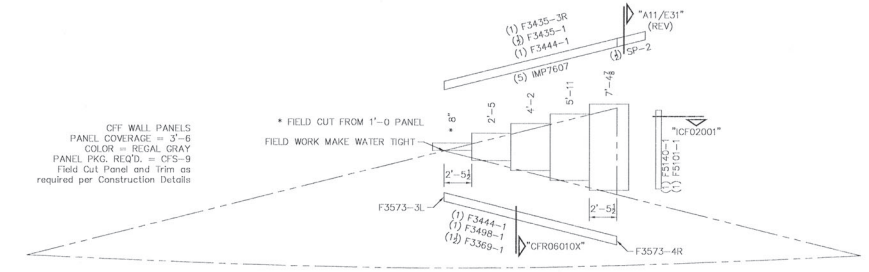


WALL SHEETING ELEVATION "EWB"
BUILDING "C" CLERESTORY STRUCTURE
ABOVE BUILDING "A"



ELEVATION "EWD"
CLEARSTORY

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
CK13	29
CK23	96
RK13	170
RF5A	71



WALL SHEETING ELEVATION "EWD"
BUILDING "C" CLERESTORY STRUCTURE
ABOVE BUILDING "A"

Rev'd	By	Description	Date	Revision

ASTAR BUILDING SYSTEMS®
P.O. BOX 4980
OKLAHOMA CITY, OK 73143
(405) 536-2010

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location: CITY OF BEACON
BEACON, NY

Drawing Status: ☐ Preliminary (Not For Construction) ☐ For Approval (Not For Construction) ☐ For Construction Permit ☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E11 of 31

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

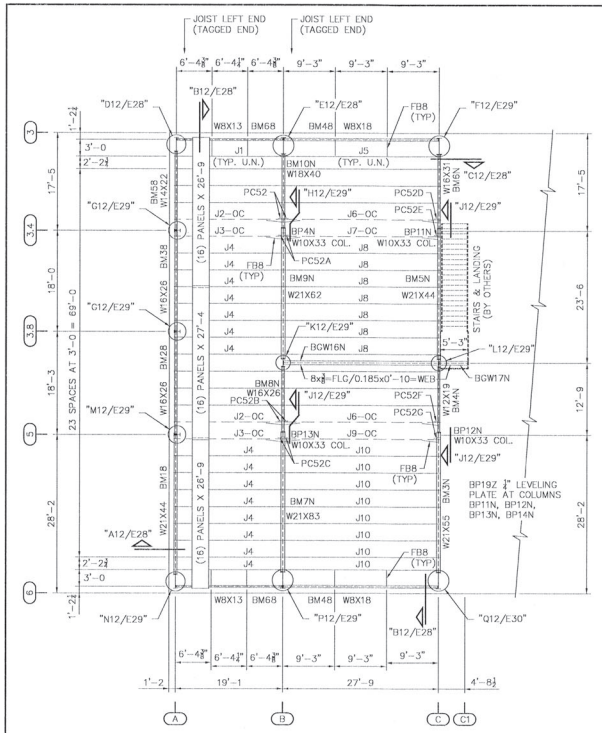
Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTTA ENSTTA

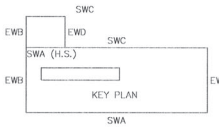
STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER

Jan 22, 2016

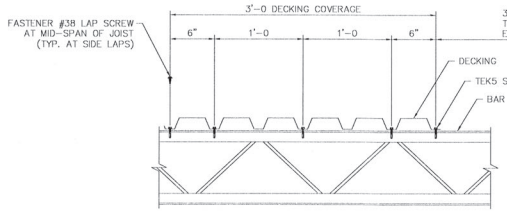
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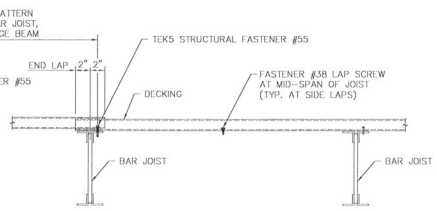
MEZZANINE FRAMING PLAN



NOTE:
JOIST LABELED WITH SUFFIX "-OC" ARE "OSHA COLUMN JOIST". THESE JOIST ARE TO BE ERECTED FIRST ALONG WITH THE MEZZANINE BEAMS SO AS TO PROVIDE STABILITY AND BRACING FOR THE MEZZANINE SUPPORT COLUMN. REFERENCE "OSHA COLUMN JOIST" GENERAL ATTACHMENT SECTION AND SPECIFIC SECTIONS FOR ADDITIONAL INFORMATION.

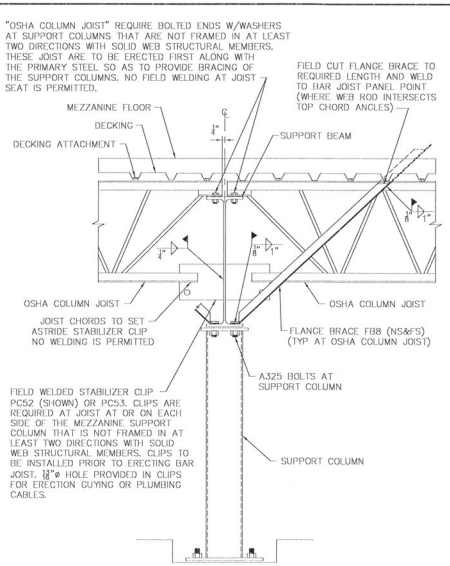


FASTENER LAYOUT



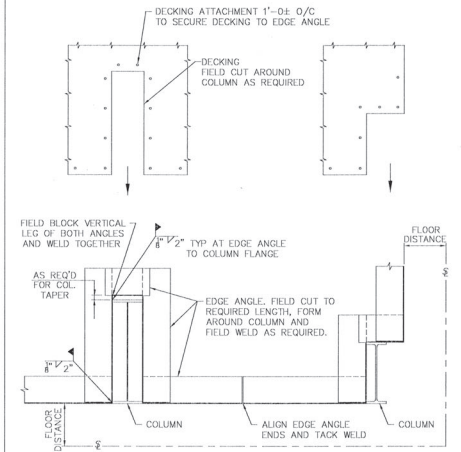
DECKING ENDLAP

"OSHA COLUMN JOIST" REQUIRE BOLTED ENDS W/WASHERS AT SUPPORT COLUMNS THAT ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH SOLID WEB STRUCTURAL MEMBERS. THESE JOIST ARE TO BE ERECTED FIRST ALONG WITH THE PRIMARY STEEL SO AS TO PROVIDE BRACING OF THE SUPPORT COLUMNS. NO FIELD WELDING AT JOIST SEAT IS PERMITTED.



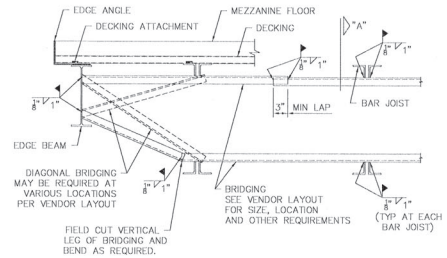
"OSHA COLUMN JOIST" GENERAL ATTACHMENT SECTION

SEE MEZZANINE FRAMING PLAN FOR "OSHA COLUMN JOIST" LABELED WITH SUFFIX "-OC". SEE SPECIFIC SECTIONS FOR INFORMATION NOT SHOWN.

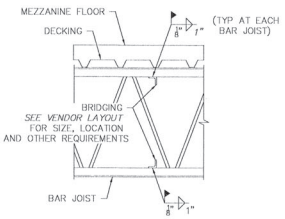


GENERAL DETAIL AT EDGE ANGLE

EDGE ANGLE TO BE FIELD CUT, FORMED AND WELDED AROUND EXTERIOR AND INTERIOR COLUMNS, OPENINGS AND OTHER CONDITIONS SIMILAR TO THAT SHOWN.



SECTION AT EDGE BEAM



SECTION "A"

Rev.	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
AN ECOSTAR COMPANY
P.O. BOX 34913
PONCA CITY, OK 74374
(405) 604-3939

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E12 of 31

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Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRS11A ENG11A

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER

JULY 22, 2016

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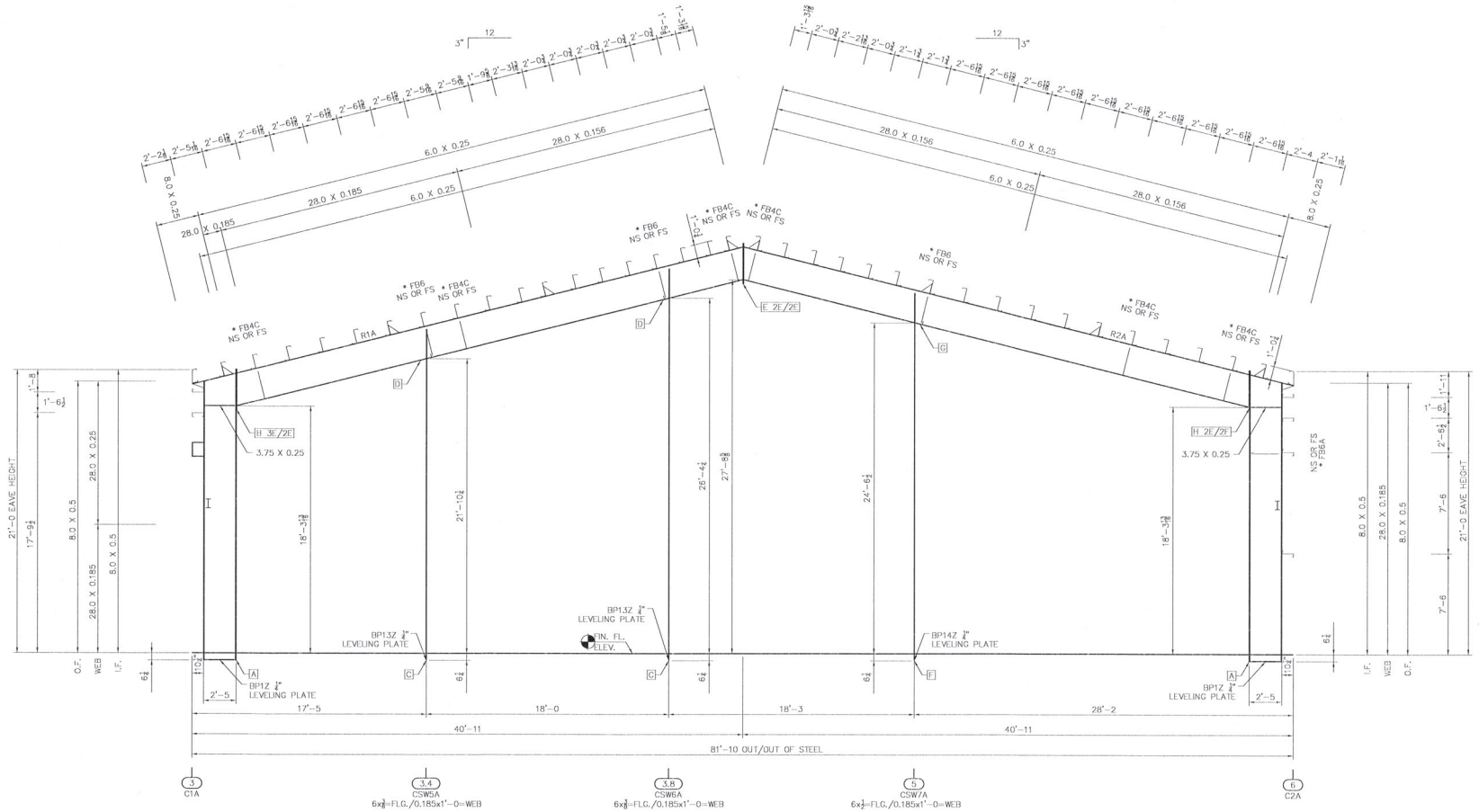
OY/PROJECTS\XDS-V3-09-00 FRAME = Active/ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x07L Active/ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x07R Active/ENG/15-B-10248/ver01-mjdotta/Bldg-B/Drftg/x02L 11/18/15 09:19:29 11/18/15 09:19:29 11/18/15 09:11:19
OY/PROJECTS\XDS-V5-09-00 FB SET = Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x07L Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x07R

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1A	1164
R2A	1088
C1A	1115
CSW7A	785
CSW6A	698
CSW5A	597
C2A	1027



CROSS SECTION AT FRAME LINE "A"
BUILDING "A"

CONN.	PLATE SIZE TABLE LOW SIDE	HIGH SIDE	SPLICE BOLT TABLE QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	8 X 0.375 X 2'-5					
B	8 X 0.5 X 21'-6 7/16	6 X 0.375 X 2'-11 7/16	(10) ¾ X 2"	A325 B&N	0	0
C	6 X 0.375 X 1'-0 3/4					
D	12 X 0.375 X 0'-11½		(4) ½ X 1¼	A325 B&N	1	0
E	6 X 0.375 X 2'-11½	6 X 0.375 X 2'-11½	(10) ¾ X 1¼	A325 B&N	0	0
F	6 X 0.375 X 1'-1					
G	13 X 0.375 X 0'-11½		(4) ½ X 1¼	A325 B&N	1	0
H	8 X 0.5 X 21'-6 7/16	6 X 0.375 X 2'-9¼	(8) ¾ X 2"	A325 B&N	0	0

Revision	Date	By	Ckd	Description

ASTAR BUILDING SYSTEMS®
P.O. BOX 44910
OKLAHOMA CITY, OK 73143
(405) 634-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC.
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E13 of 31

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Aaron Kent Batcheller, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK
AARON KENT BATCHELLER
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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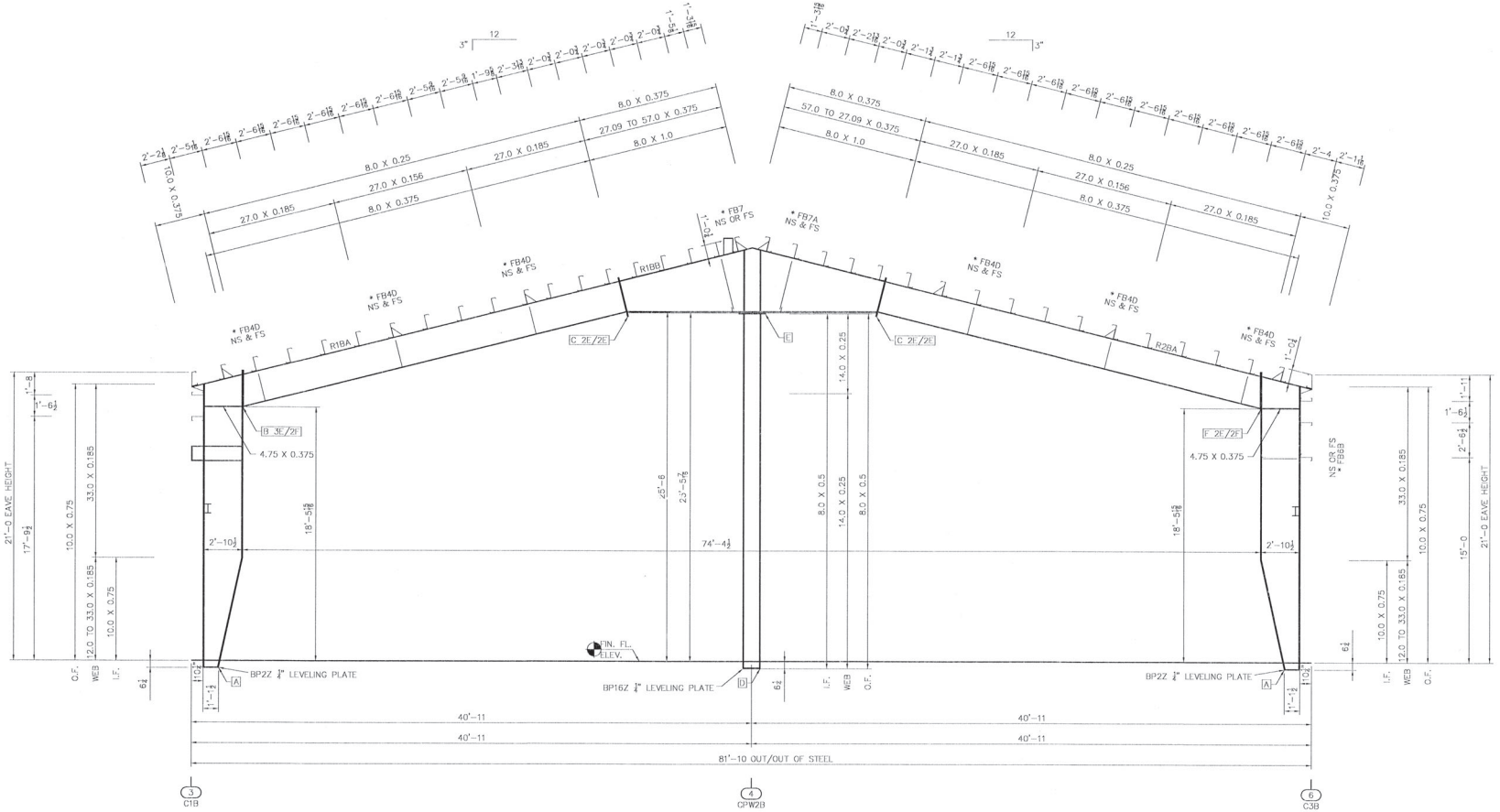
OY/PROJECTS\XDS-V5-09-00 FRAME = Active/ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x09L Active/ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x09R Active/ENG/15-B-10248/ver01-mjdotta/Bldg-B/Drftg/x01L 11/18/15 09:19:42 11/18/15 09:19:42 11/18/15 09:11:19
OY/PROJECTS\XDS-V5-09-00 FB SET = ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x09L 11/18/15 09:19:42 7 Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x09R

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1BA	1053
R1BB	965
R2BA	1051
R2BB	951
C1B	1654
CPW2B	1087
C3B	1585



CROSS SECTION AT FRAME LINE "B"
BUILDING "A"

PLATE SIZE TABLE			SPLICE BOLT TABLE				
CONN.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	10 X 0.375 X 1'-1½						
B	10 X 0.75 X 13'-7⅛	8 X 0.5 X 2'-8½	(10)	¾ X 2¼	A325 B&N	0	0
C	8 X 0.375 X 2'-10½	8 X 0.375 X 2'-10½	(8)	¾ X 1¾	A325 B&N	0	0
D	8 X 0.625 X 1'-3						
E	8 X 1.0 X 1'-11		(8)	1" X 3½	A325 B&N	0	0
F	10 X 0.75 X 13'-7⅛	8 X 0.5 X 2'-8½	(8)	¾ X 2¼	A325 B&N	0	0

Revision	Date	By	Ck'd	Description

ASTAR BUILDING SYSTEMS®
P.O. BOX 94913
OKLAHOMA CITY, OK 73143
(405) 634-6010

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E14 of 31

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Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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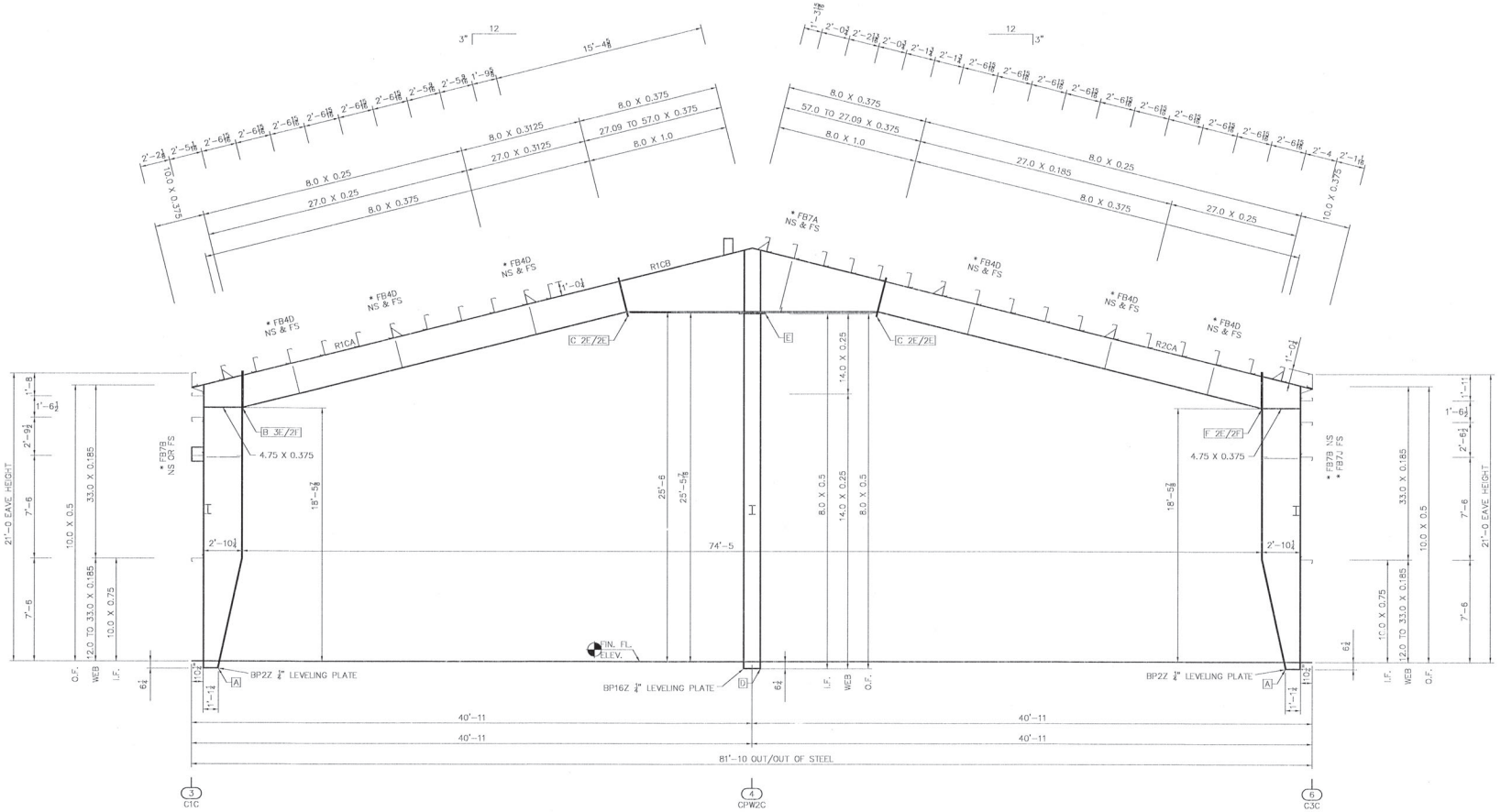
OY/PROJECTS\XDS-V5-09-00 FRAME = Active/ENG/15-B-1024B/ver01-mjdotta/Bldg-A/Drftg/x12L Active/ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x12R 11/18/15 09:20:06 11/18/15 09:20:06
OY/PROJECTS\XDS-V5-09-00 FB SET = ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x12L 11/18/15 09:20:06 7 Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x12R

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

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* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1CA	1311
R1CB	945
R2CA	1136
R2CB	951
C1C	1429
CPW2C	1085
C3C	1409



CROSS SECTION AT FRAME LINE "C"
BUILDING "A"

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	10 X 0.375 X 1'-1¼					
B	10 X 0.75 X 13'-7½	8 X 0.5 X 2'-8½	(10) ¾ X 2¼	A325 B&N	0	0
C	8 X 0.375 X 2'-10½	8 X 0.375 X 2'-10½	(8) ¾ X 1¾	A325 B&N	0	0
D	8 X 0.5 X 1'-3					
E	8 X 1.0 X 1'-11		(8) 1" X 3½	A325 B&N	0	0
F	10 X 0.75 X 13'-7½	8 X 0.5 X 2'-8½	(8) ¾ X 2¼	A325 B&N	0	0

Revision	Date	By	Ck'd
Description			

ASTAR BUILDING SYSTEMS®
P.O. BOX 84913
OKLAHOMA CITY, OK 73143
(405) 478-4000

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE	
Drawn by:	LSR	1/22/16
Checked by:	LSA	1/22/16
Project Engineer:	MJD	
Job Number:	15-B-10248	
Sheet Number:	E15 of 31	

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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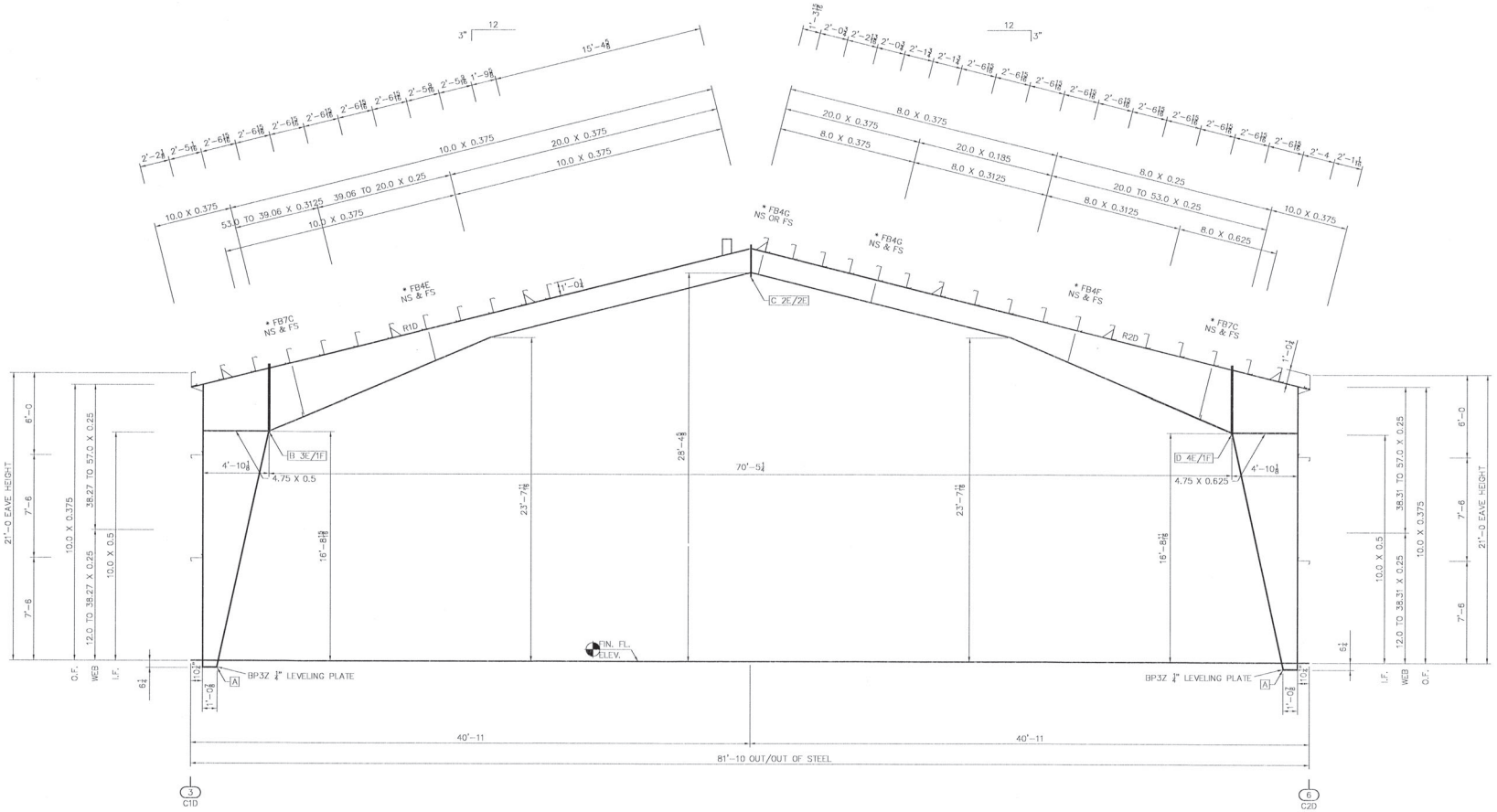
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GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1D	2225
R2D	1763
C1D	1579
C2D	1599



CROSS SECTION AT FRAME LINE "D"
BUILDING "A"

	PLATE SIZE TABLE		SPLICE BOLT TABLE				
CONN.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	10 X 0.625 X 1'-0⅞						
B	10 X 0.75 X 5'-0	10 X 0.75 X 4'-11½	(10)	¾ X 2½	A325 B&N	0	0
C	10 X 0.375 X 2'-3½	8 X 0.375 X 2'-3½	(8)	¾ X 1¾	A325 B&N	0	0
D	10 X 0.75 X 5'-0⅛	8 X 0.625 X 4'-11¼	(12)	¾ X 2½	A325 B&N	0	0

Revision	Date	By	Ck'd	Description

ASTAR BUILDING SYSTEMS®
P.O. BOX 94913
OKLAHOMA CITY, OK 73143
(405) 839-2810

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location: CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E16 of 31

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron Kent Batchellar, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK
AARON KENT BATCHELLAR
084702
REGISTERED PROFESSIONAL ENGINEER
Jan 22, 2016

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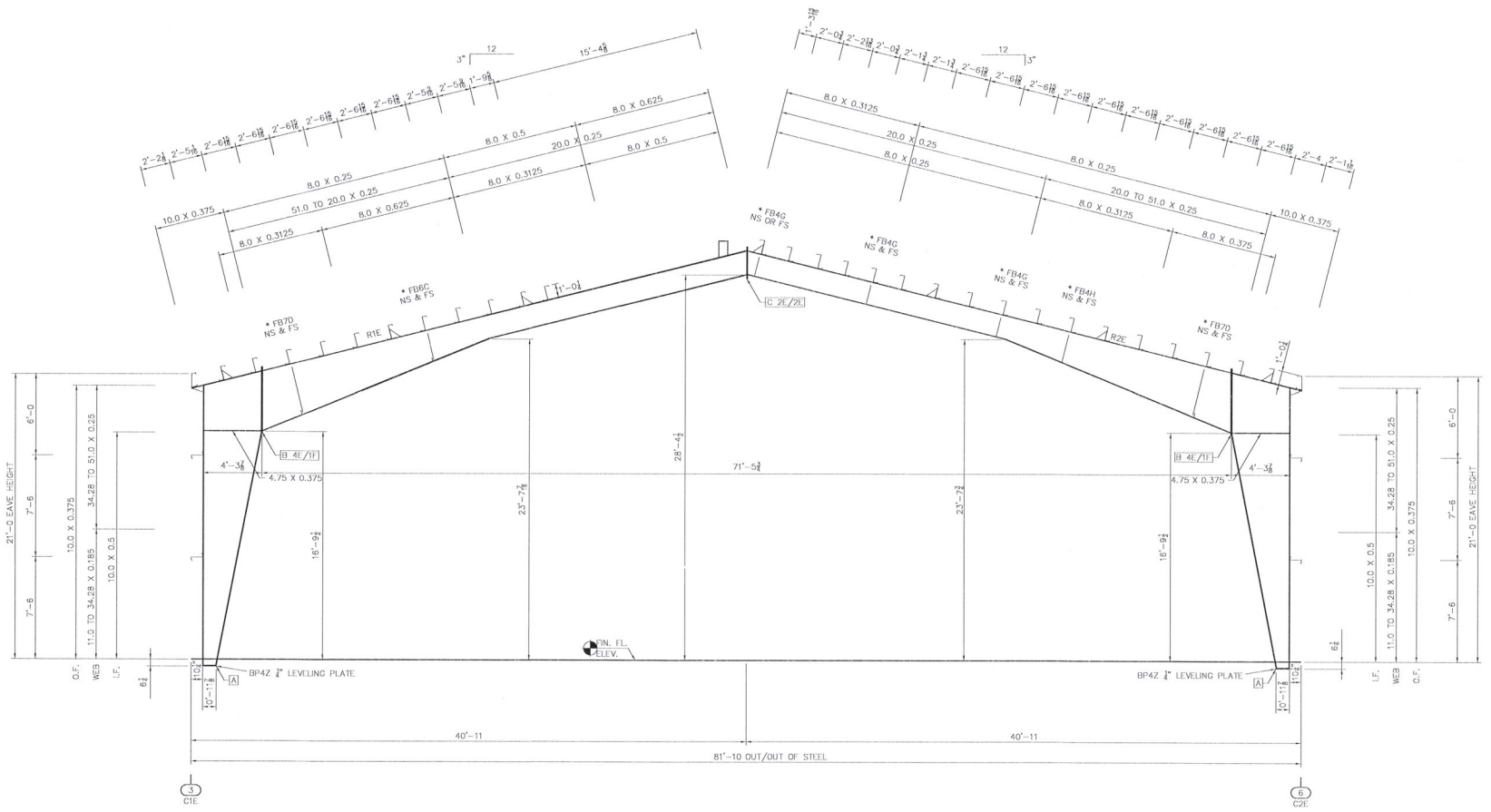
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O:Y/PROJECTS\XDS-V5-09-00 FB SET = Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x05L Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x05R

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1E	1867
R2E	1551
C1E	1374
C2E	1374



CROSS SECTION AT FRAME LINE "E"
BUILDING "A"

CONN.	PLATE SIZE TABLE LOW SIDE	HIGH SIDE	SPLICE BOLT TABLE QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	10 X 0.625 X 0'-11⅞					
B	10 X 0.5 X 4'-9½"	8 X 0.5 X 4'-9½"	(12) ¾" X 2"	A325 B&N	0	0
C	8 X 0.375 X 2'-4⅛"	8 X 0.375 X 2'-4⅛"	(8) ¾" X 1½"	A325 B&N	0	0

Revision	Date	By	Ck'd	Description

ASTAR BUILDING SYSTEMS®
P.O. BOX 84845
OKLAHOMA CITY, OK 73143
(405) 495-2010

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E17 of 31

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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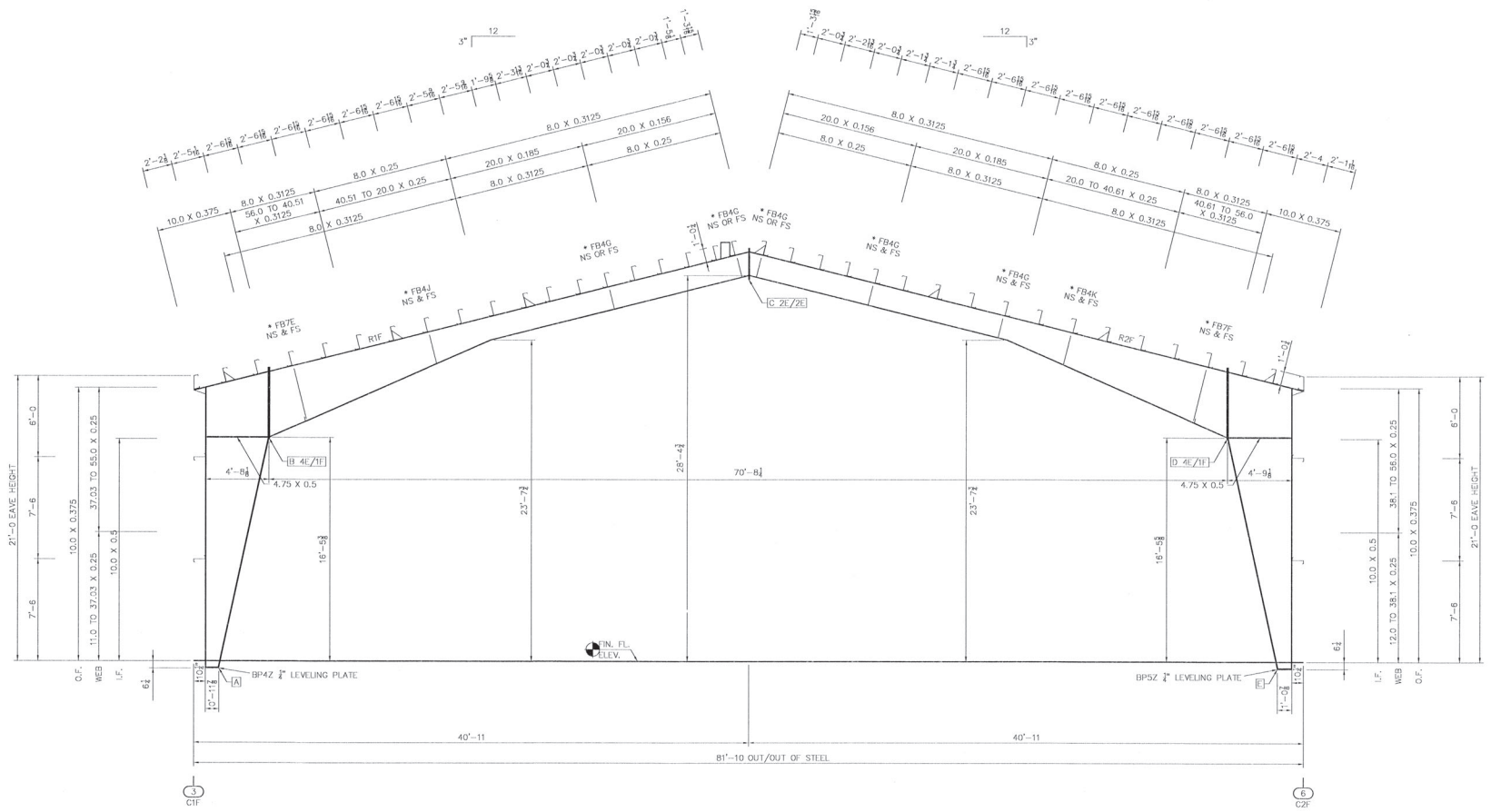
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OY/PROJECTS\XDS-V5-09-00 FB SET = Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x06L Eng/15-B-10248/ver01-mjdotta/Bldg-A/DRFTG/x06R

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1F	1617
R2F	1598
C1F	1549
C2F	1572



CROSS SECTION AT FRAME LINE "F"
BUILDING "A"

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	10 X 0.625 X 0'-11⅛					
B	10 X 0.75 X 5'-3	8 X 0.625 X 5'-2½	(12) ¾ X 2½	A325 B&N	0	0
C	8 X 0.375 X 2'-3⅜	8 X 0.375 X 2'-3⅜	(8) ¾ X 1¾	A325 B&N	0	0
D	10 X 0.75 X 5'-3	8 X 0.625 X 5'-2½	(12) ¾ X 2½	A325 B&N	0	0
E	10 X 0.625 X 1'-0⅜					

Revision	Date	By	Ck'd	Description

ASTAR BUILDING SYSTEMS®
P.O. BOX 94913 OKLAHOMA CITY, OK 73143 (405) 631-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E18 of 31

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Aaron Kent Batchellar, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK AARON KENT BATCHELLAR 084702 LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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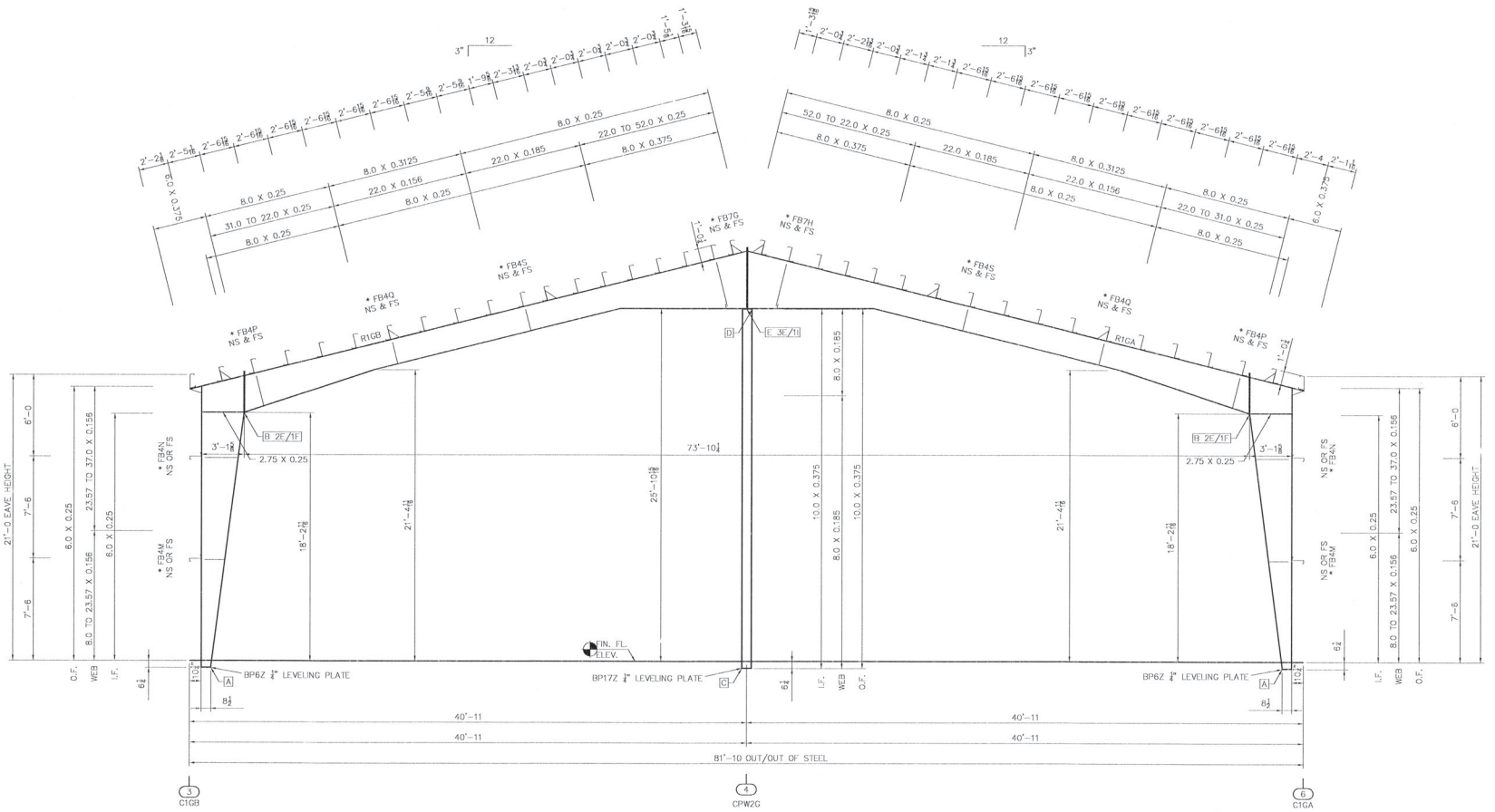
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GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1GB	1465
R1GA	1462
C1GB	559
CPW2G	825
C1GA	559



CROSS SECTION AT FRAME LINE "C"
BUILDING "A"

	PLATE SIZE TABLE		SPLICE BOLT TABLE				
CONN.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6 X 0.375 X 8½						
B	6 X 0.375 X 3'-1	8 X 0.375 X 3'-0½	(8)	¾ X 1¾	A325 B&N	0	0
C	10 X 0.375 X 8½						
D	10 X 0.375 X 8½		(4)	¾ X 1¾	A325 B&N	4	0
E	8 X 0.5 X 4'-6⅛	8 X 0.5 X 4'-6⅛	(10)	¾ X 2"	A325 B&N	0	0

No.	Description	Date	By	Ck'd
Revision				

ASTAR BUILDING SYSTEMS®
P.O. BOX 24913
OKLAHOMA CITY, OK 73143
(405) 634-3010

Customer: STEEL SOLUTIONS INC
Project Name & Location: CITY OF BEACON
BEACON, NY
RAVENA, NY
Drawing Status: ☐ Preliminary (Not For Construction) ☐ For Approval (Not For Construction) ☐ For Construction Permit ☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E19 of 31

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Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
JAN 22, 2016

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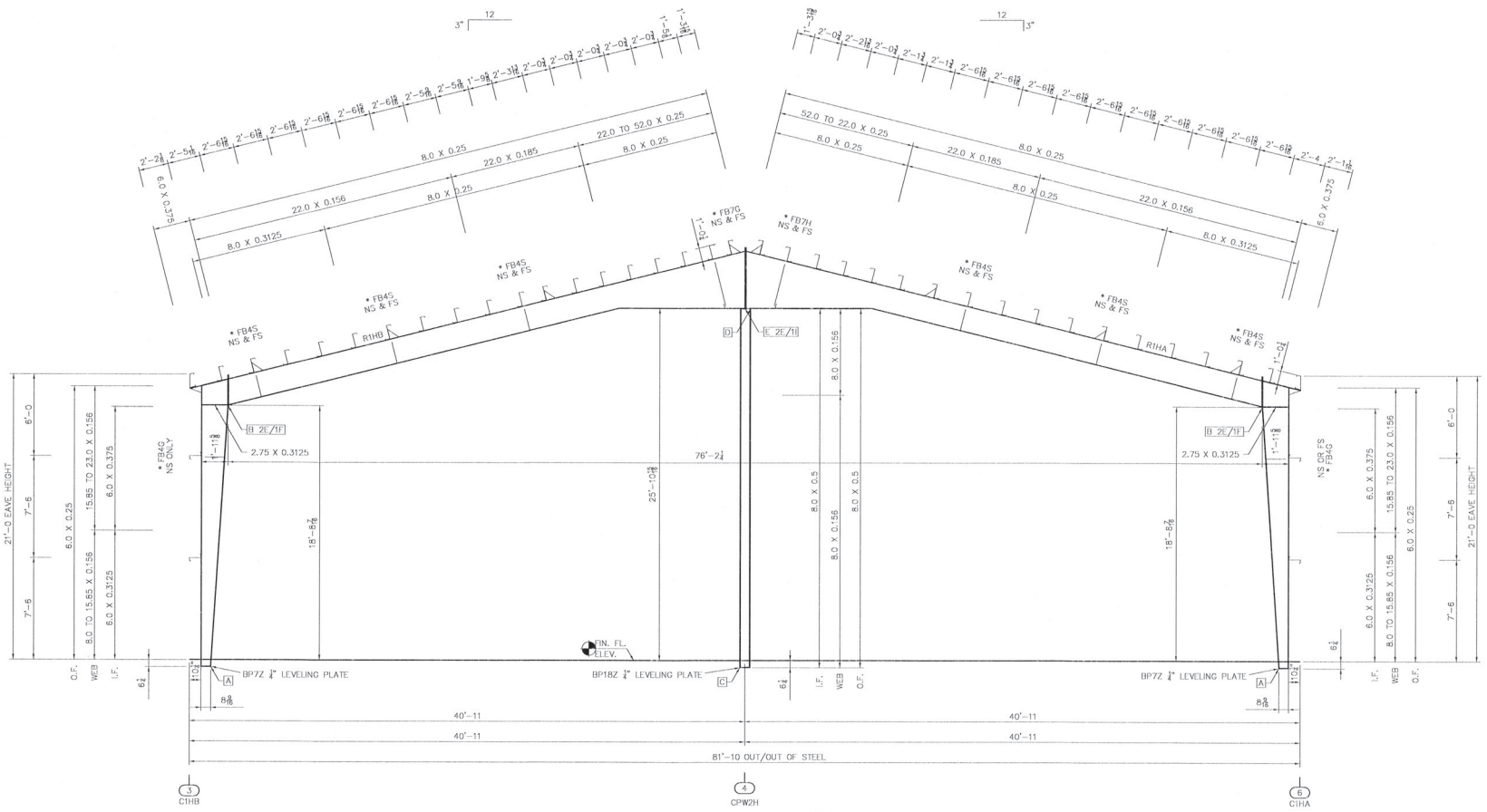
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GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1HB	1356
R1HA	1353
C1HB	484
CPW2H	846
C1HA	484



CROSS SECTION AT FRAME LINE "H"
BUILDING "A"

	PLATE SIZE TABLE		SPLICE BOLT TABLE				
CONN.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6 X 0.375 X 8 5/16						
B	6 X 0.375 X 2'-3½	8 X 0.375 X 2'-3½	(6)	¾ X 1½	A325 B&N	0	0
C	8 X 0.375 X 9"						
D	8 X 0.375 X 9"		(4)	½ X 1½	A325 B&N	4	0
E	8 X 0.5 X 4'-5 13/16	8 X 0.5 X 4'-5 13/16	(8)	¾ X 2"	A325 B&N	0	0

Rev'd	By	Description	Date	Revision

ASTAR BUILDING SYSTEMS®
P.O. BOX 94910
OKLAHOMA CITY, OK 73143
(405) 836-2900

Customer: STEEL SOLUTIONS INC
Project Name & Location: CITY OF BEACON, BEACON, NY
Drawing Status: ☐ Preliminary (Not For Construction) ☐ For Approval (Not For Construction) ☐ For Construction Permit ☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E20 of 31

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Aaron Kent Batchellor, P.E.
New York P.E. 084702
DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

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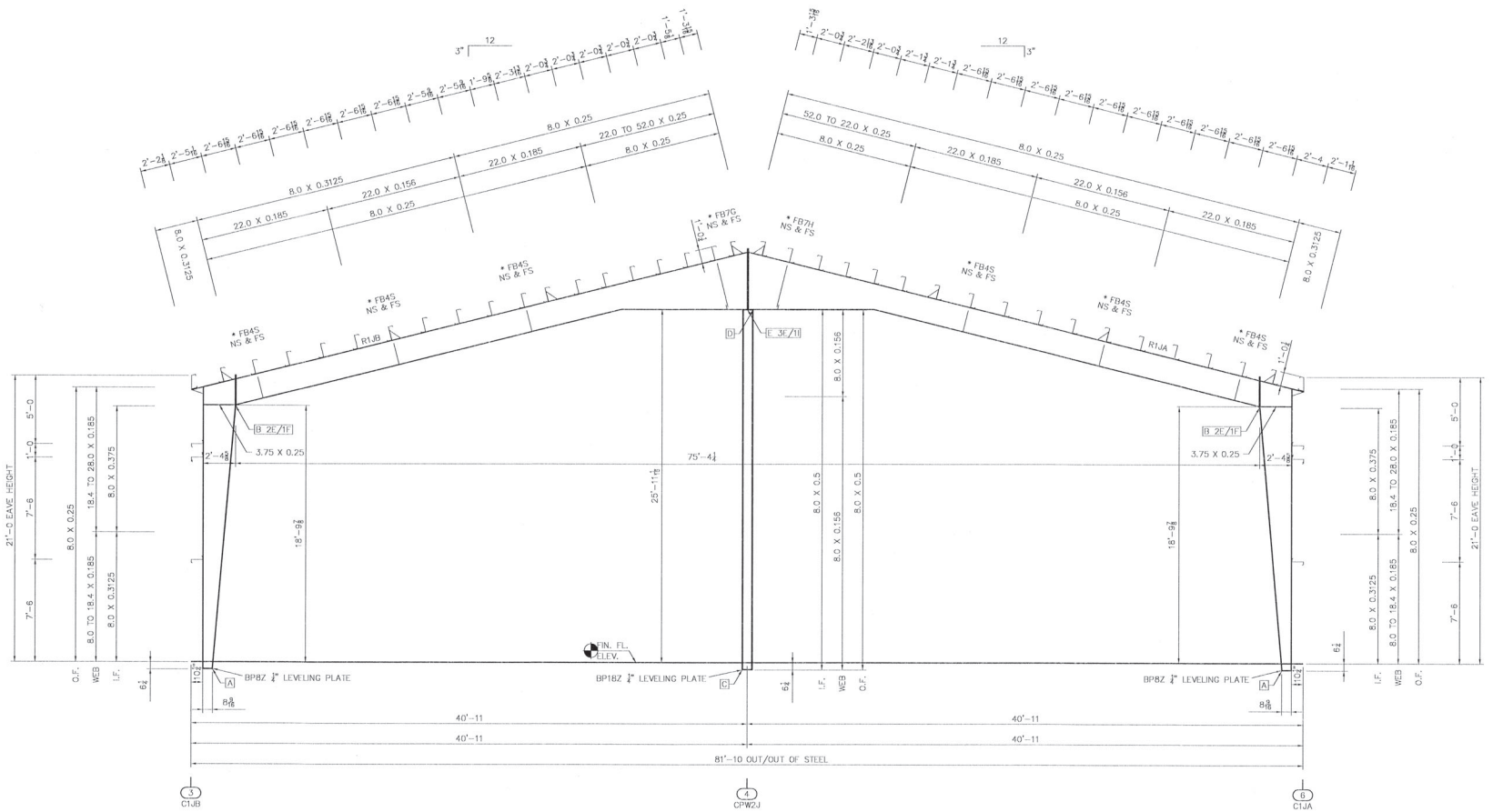
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GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1JB	1344
R1JA	1341
C1JB	653
CPW2J	846
C1JA	653



CROSS SECTION AT FRAME LINE "J"
BUILDING "A"

CONN.	PLATE SIZE TABLE		SPLICE BOLT TABLE			
	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	8 X 0.375 X 8⅝					
B	8 X 0.375 X 2'-3⅛	8 X 0.375 X 2'-3⅛	(6) ¾ X 1¾	A325 B&N	0	0
C	8 X 0.375 X 9"					
D	8 X 0.375 X 9"		(4) ¾ X 1¾	A325 B&N	4	0
E	8 X 0.5 X 4'-5⅛	8 X 0.5 X 4'-5⅛	(10) ¾ X 2"	A325 B&N	0	0

Revision	Date	Description	By	Ck'd

STAR BUILDING SYSTEMS® MANUFACTURING
P.O. BOX 64913
SOUTH ST. PAUL, MN 55164-0913
(651) 454-6900

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection/Installation

Scale:	NOT TO SCALE	
Drawn by:	LSR	1/22/16
Checked by:	LSA	1/22/16
Project Engineer:	MJD	
Job Number:	15-B-10248	
Sheet Number:	E21 of 31	

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Aaron Kent Butcher, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BUTCHER
084702
LICENSED PROFESSIONAL ENGINEER

JAN 22, 2016

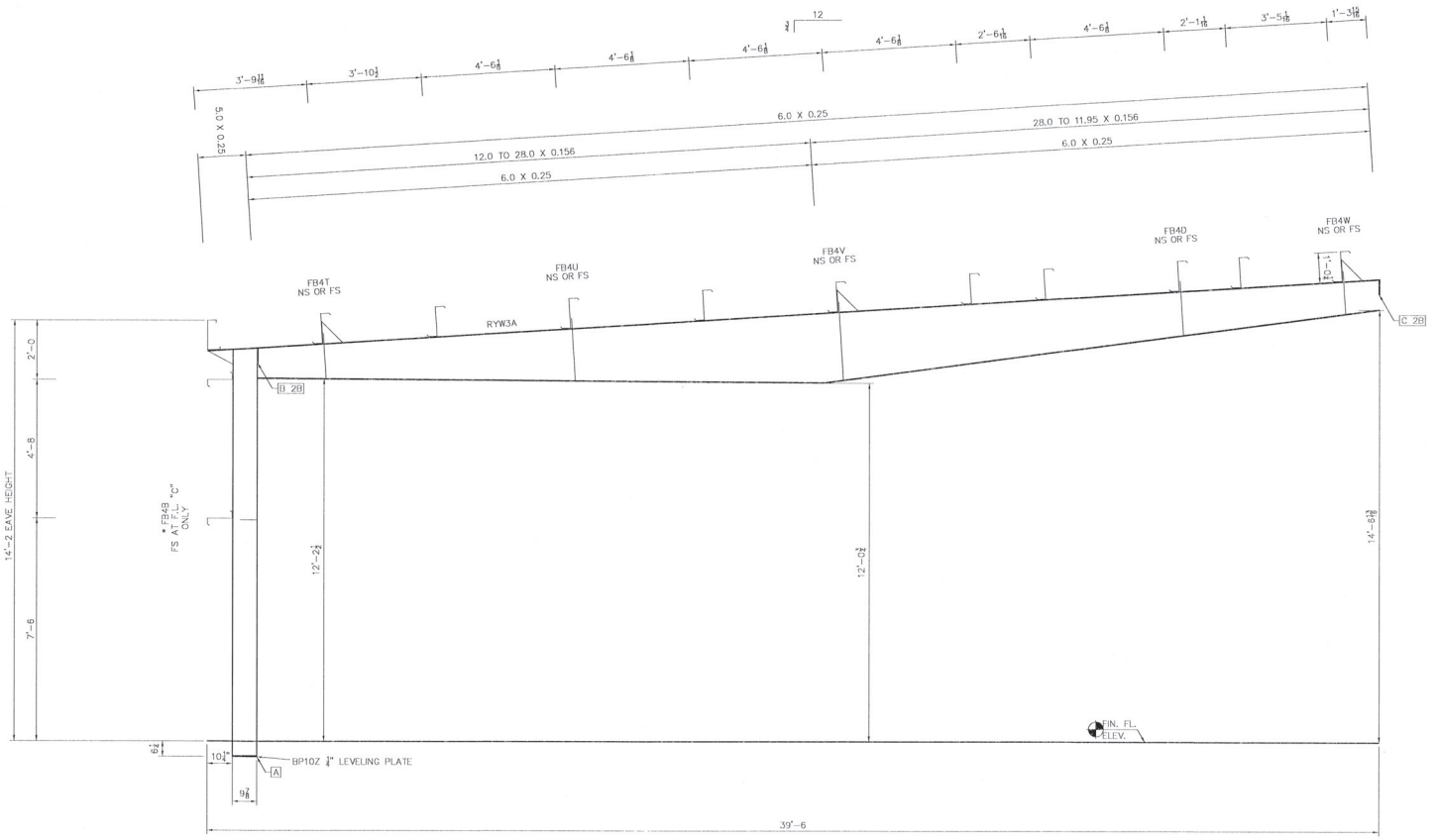
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OY/PROJECTS\XDS-V5-09-00 FRAME =
OY/PROJECTS\XDS-V5-09-00 FB SET = Eng/15-B-10248/ver01-mjdotta/tildg-B/DRFTG/x02L

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
RYW3A	834
CY3A	186



1 CY3A W10X12

CROSS SECTION AT FRAME LINES "A" & "C"
BUILDING "B"

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6 X 0.375 X 9 1/8					
B		6 X 0.25 X 6"	(4) 3/4 X 1 1/4	A325 B&N	0	0
C	6 X 0.25 X 6"		(4) 3/4 X 1 1/4	A325 B&N	0	0

Rev'd	By	Description	Date	Revision

ASTAR BUILDING SYSTEMS®
P.O. BOX 54910
OKLAHOMA CITY, OK 73143
(405) 525-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E22 of 31

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Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRSTTA ENSTTA

STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER
JAN 22, 2016

Subdivision 2 of Section 7209 of the Education Law of the State of New York states that it is a violation of this law for any person unless he is acting under the direction of a licensed Professional Engineer, to alter the contents of a document in any way. If an item bearing the seal of an engineer is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and specific description of the alteration.

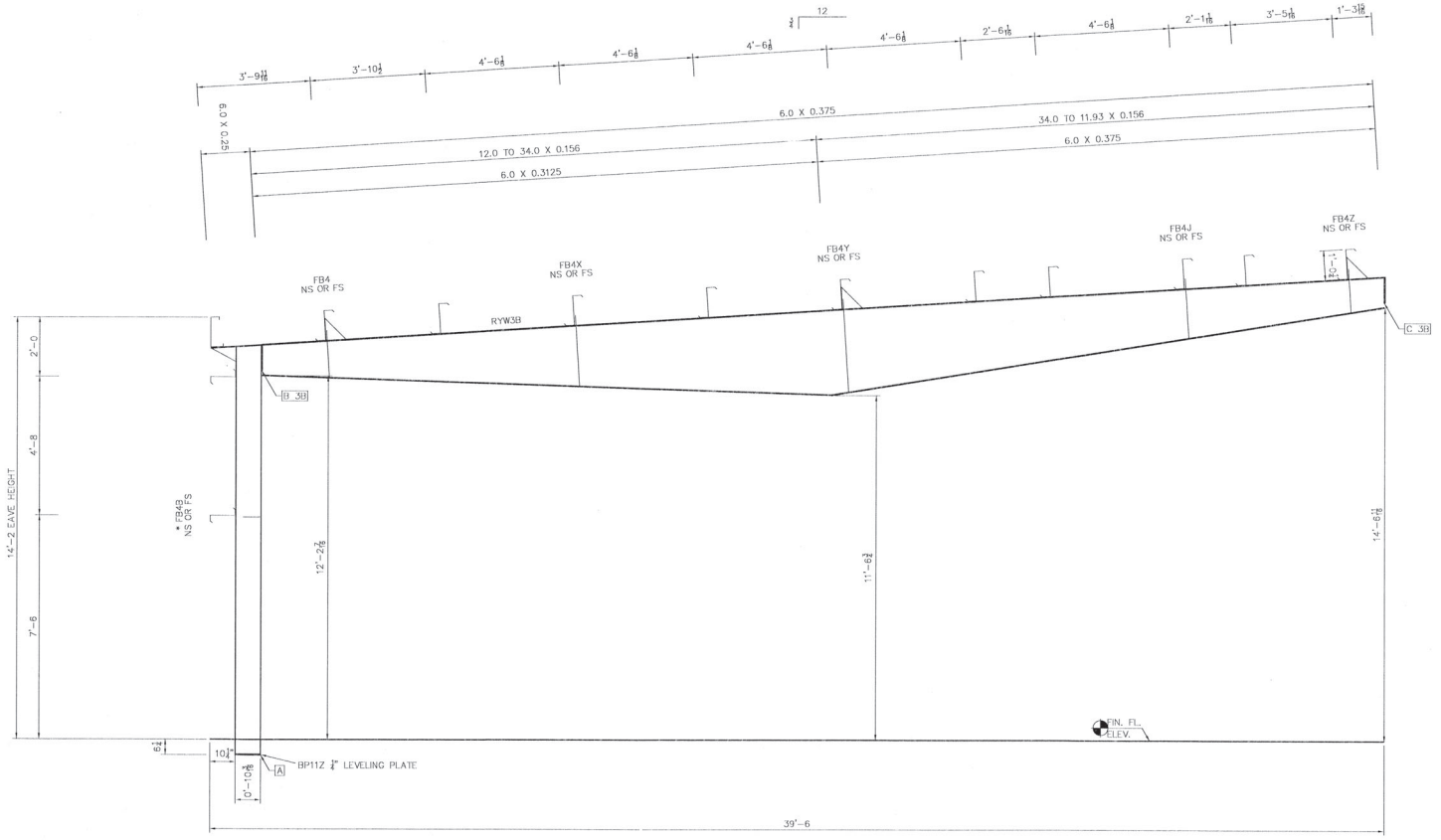
OY/PROJECTS\XDS-V5-09-00 FRAME =
OY/PROJECTS\XDS-V5-09-00 FB SET = Eng/15-B-10248/ver01-mjdotta/Bldg-B/DRFTG/x01L

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
RYW3B	1071
CY4B	325



1 CY4B W10X22

CROSS SECTION AT FRAME LINE "B"
BUILDING "B"

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6 X 0.375 X 0'-10 3/16					
B		6 X 0.375 X 0'-10 1/2	(6) 3/4 X 1 3/4	A325 BeN	0	0
C	6 X 0.375 X 0'-10 1/2		(6) 3/4 X 1 3/4	A325 BeN	0	0

Rev	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 8498
OKMULGEE, OK 74363
(405) 826-8215

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location: CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E23 of 31

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Aaron Kent Batchellor, P.E.
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DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
JAN 22, 2016

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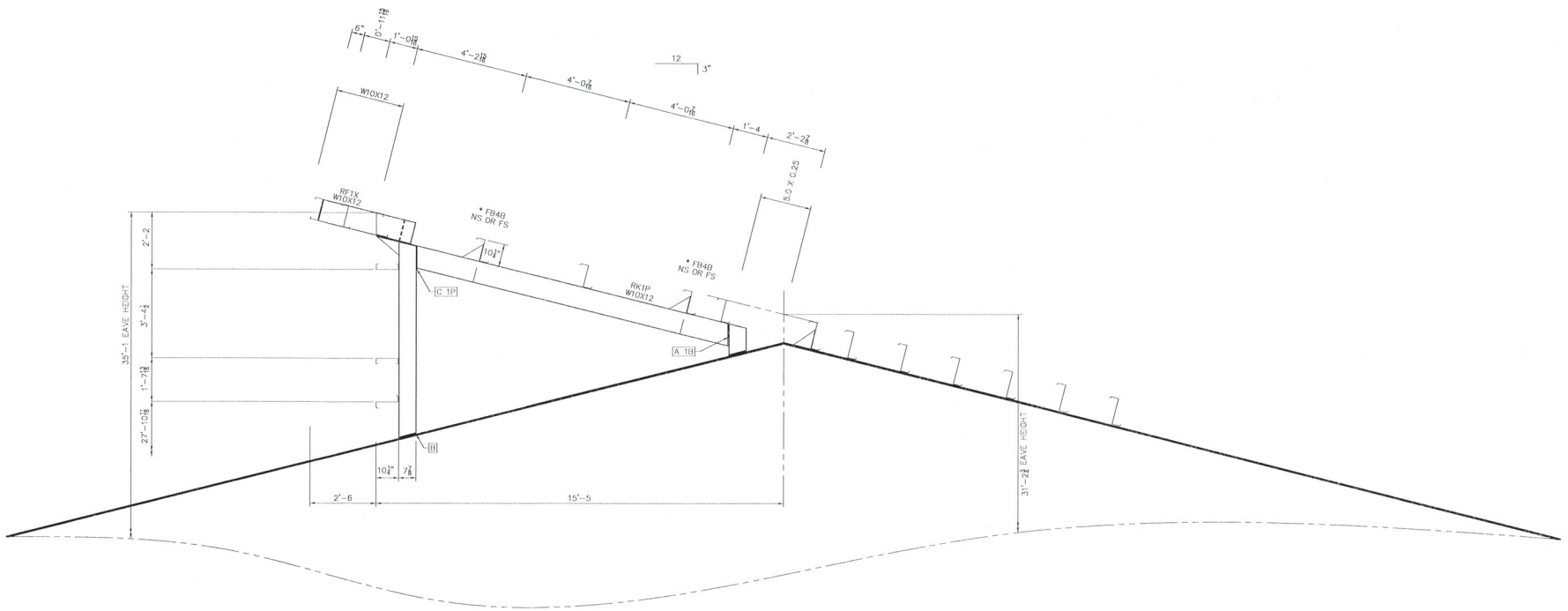
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OY/PROJECTS\XDS-V5-09-00 FB SET = Eng/15-B-10248/ver01-mjdotta/Bldg-C/DRFTG/x03L

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

* DENOTES: PLATE AT FLANGE BRACE
CL190 AT 8" PURLINS/GIRTS
CL191 AT 10" PURLINS/GIRTS
CL192 AT 12" PURLINS/GIRTS

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
RK1P	170
RF1X	71
CK2P	96



CK2P AT F.L. "B", "C", "D", & "F"
W8X10
CK3P AT F.L. "E"
W8X10

CROSS SECTION AT FRAME LINES "B" THUR "F"
CLEARSTORY

	PLATE SIZE TABLE		SPLICE BOLT TABLE				
CONN.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A		5 X 0.25 X 6"	(2)	3/4 X 1 1/2	A325 B&N	0	0
B	6 X 0.375 X 8 1/8		(4)	3/4 X 1 1/2	A325 B&N	0	0
C	5 X 0.25 X 0'-6		(4)	3/4 X 1 1/2	A325 B&N	0	0

Rev'd	By	Description	Date	Revision

ASTAR BUILDING SYSTEMS®
P.O. BOX 94612
OKLAHOMA CITY, OK 73143
(405) 634-2213

Project: Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection Installation

Scale:	NOT TO SCALE	
Drawn by:	LSR	1/22/16
Checked by:	LSA	1/22/16
Project Engineer:	MJD	
Job Number:	15-B-10248	
Sheet Number:	E24 of 31	

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Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
Jun 22, 2016

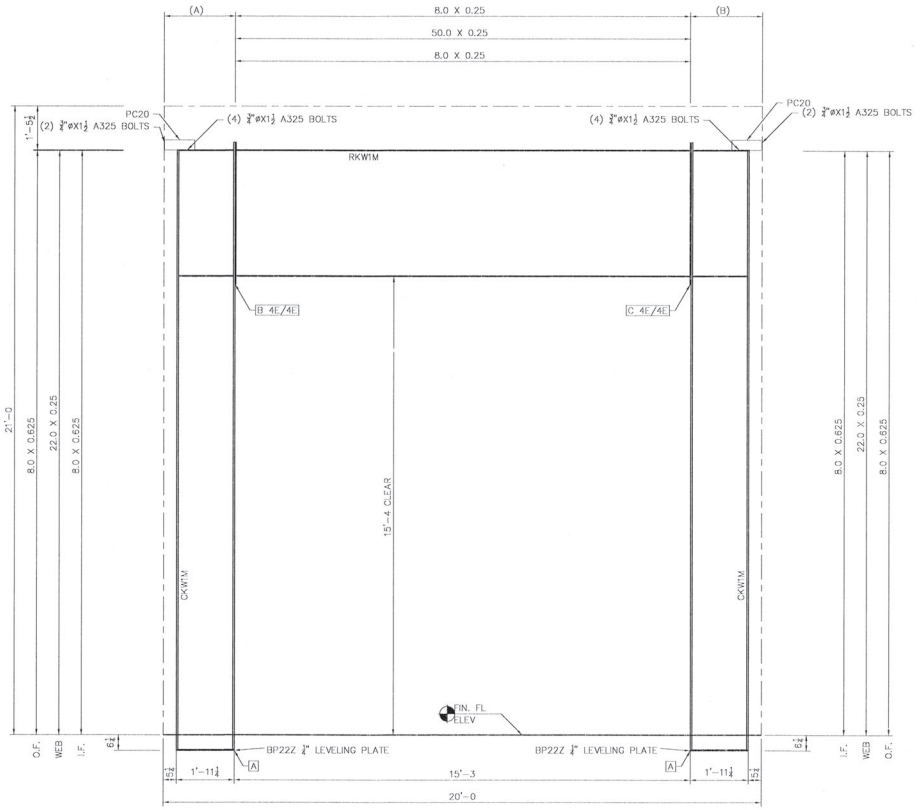
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O:/PROJECTS/XDS-V5-09-00 FRAME = Active/ENG/15-B-10248/ver01-mjdotta/Bldg-A/Drftg/x14L 11/18/15 09:23:54

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
RKW1M	950
CKW1M	1105



E C2E

F C2F

CROSS SECTION AT PORTAL FRAME
BUILDING "A" ELEVATION "SWA" & "SWC"

PLATE SIZES
(A) 8.0 X 0.25
(B) 8.0 X 0.25

PLATE SIZE TABLE		
CONN.	LOW SIDE	HIGH SIDE
A	8" X 0.375 X 1'-11¾	
B	8" X 0.625 X 20'-3⅜	8" X 0.375 X 4'-8⅜
C	8" X 0.375 X 4'-8⅜	8" X 0.625 X 20'-3⅜

SPLICE BOLT TABLE				
QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
(18)	¾ X 2"	A325 B&N	0	0
(18)	¾ X 2"	A325 B&N	0	0

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 94910 OKLAHOMA CITY, OK 73143
(405) 528-2910

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location: CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E25 of 31

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Aaron Kent Batchellor, P.E.
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DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER
Jan 22, 2016

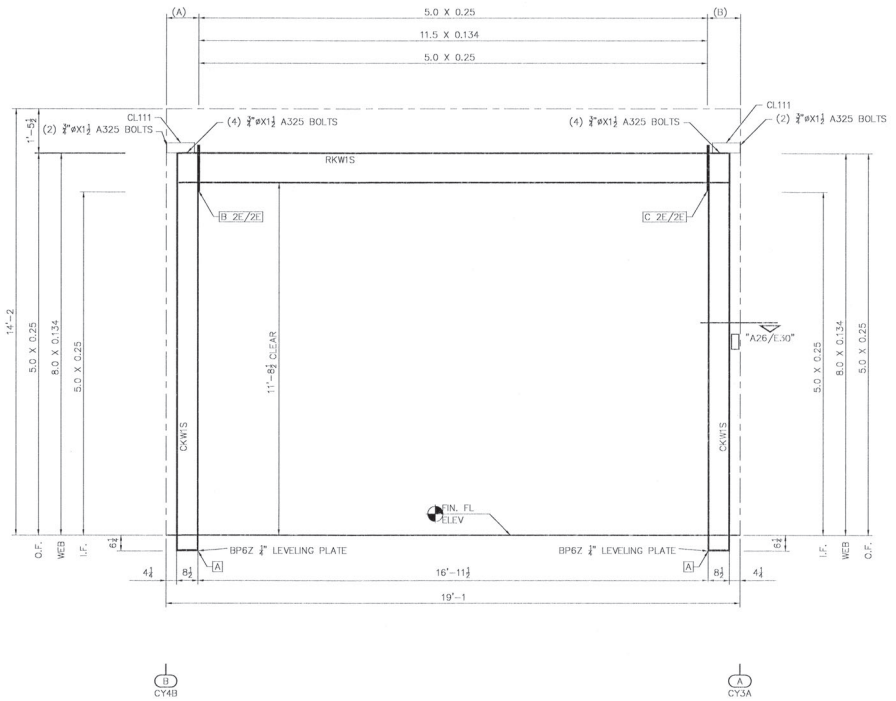
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OY/PROJECTS\XDS-V5-09-00 FRAME = Active/ENG/15-B-10248/ver01-mjdolta/Bldg-B/Drftg/x15L 11/18/15 09:10:48

GENERAL NOTES:
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VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
RKW1S	256
CKW1S	178



CROSS SECTION AT PORTAL FRAME
BUILDING "B" ELAVATION "SWC"

PLATE SIZES
(A) 5.0 X 0.25
(B) 5.0 X 0.25

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6" X 0.375 X 8½"					
B	6" X 0.375 X 1'-6⅜"	6" X 0.375 X 1'-6⅜"	(8) ¾" X 1½"	A325 B&N	0	0
C	6" X 0.375 X 1'-6⅜"	6" X 0.375 X 1'-6⅜"	(8) ¾" X 1½"	A325 B&N	0	0

Rev'd	By	Description	Date	Revision

ASTAR BUILDING SYSTEMS®
P.O. BOX 9469
OKLAHOMA CITY, OK 73143
(405) 528-2015

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E26 of 31

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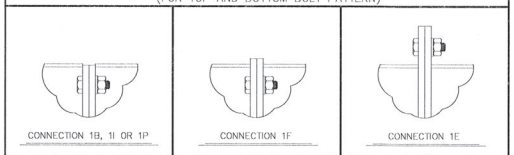
Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
DEPARTMENT OF EDUCATION
LICENSED PROFESSIONAL ENGINEER
084702
JAN 22, 2016

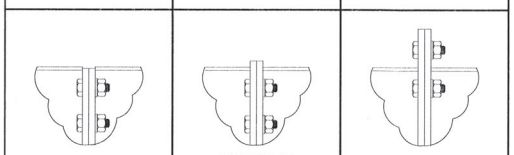
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CONNECTION CODES
(FOR TOP AND BOTTOM BOLT PATTERN)


CONNECTION 1B, 1I OR 1P

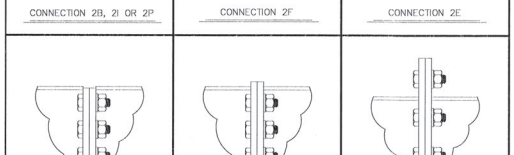
CONNECTION 1F

CONNECTION 1E


CONNECTION 2B, 2I OR 2P

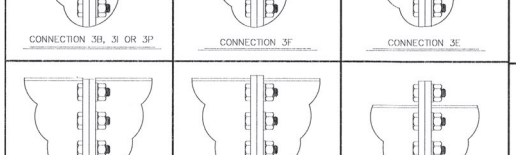
CONNECTION 2F

CONNECTION 2E


CONNECTION 3B, 3I OR 3P

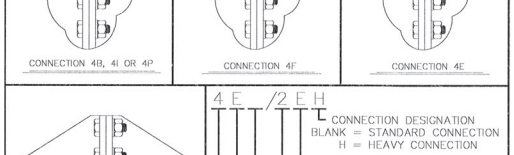
CONNECTION 3F

CONNECTION 3E


CONNECTION 4B, 4I OR 4P

CONNECTION 4F

CONNECTION 4E


CONNECTION 4X

4 E /2 E H
- CONNECTION DESIGNATION
  - BLANK = STANDARD CONNECTION
  - H = HEAVY CONNECTION
- BOTTOM CONNECTION CODE
- BOTTOM QUANTITY OF BOLT ROWS
- CONNECTION DESIGNATION
  - BLANK = STANDARD CONNECTION
  - H = HEAVY CONNECTION
- TOP CONNECTION CODE
- TOP QUANTITY OF BOLT ROWS

CONNECTION CODE FORMAT

CONNECTION CODE DESCRIPTION

B = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP FLANGE. CONNECTION PLATE LENGTH MUST BE A MINIMUM OF HALF THE RAFTER WEB DEPTH AND SHALL NOT EXCEED THE RAFTER TOTAL DEPTH.

E = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH ONE SET OUTSIDE THE TOP OR BOTTOM FLANGE AND THE REMAINING SETS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE.

F = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE AND CONNECTION PLATE PROJECTS 1/2" BEYOND THE TOP OR BOTTOM FLANGE.

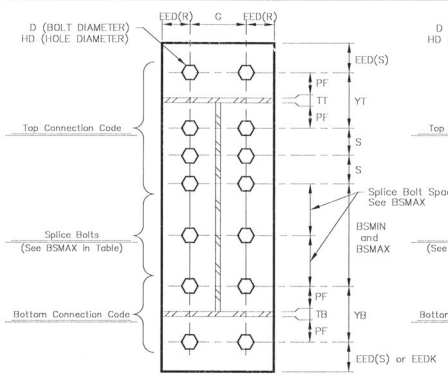
I = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP OR BOTTOM FLANGE.

P = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP FLANGE. CONNECTION PLATE LENGTH MUST BE A MINIMUM OF HALF THE RAFTER WEB DEPTH AND SHALL NOT EXCEED THE RAFTER TOTAL DEPTH.

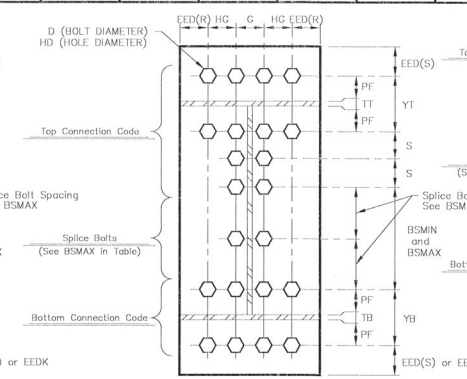
4X = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH TWO SETS EACH SIDE OF THE TOP OR BOTTOM FLANGE WITH A GUSSET PLATE OUTSIDE THE TOP AND BOTTOM FLANGE OR COLUMN CAP PLATE.

CONNECTION BOLT DATA

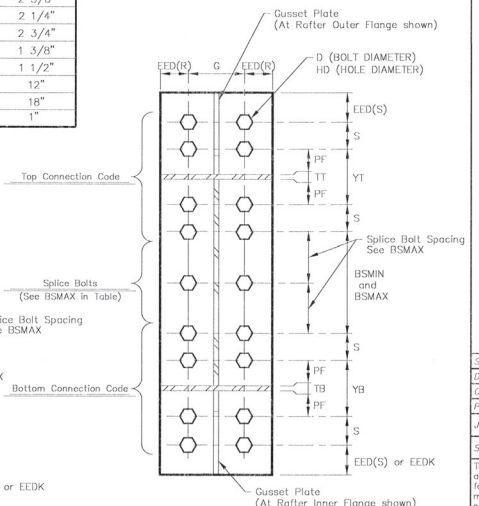
NAME	DESCRIPTION FOR A325 BOLT DIMENSIONS	A325 CONNECTION BOLT DIMENSIONS					
D	DIAMETER OF THE BOLT	1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
HD	BOLT HOLE DIAMETER	9/16"	13/16"	15/16"	1 1/16"	1 5/16"	1 9/16"
G	BOLT GAUGE	2 1/2"	3"	4"	3 1/2"	4"	5 1/2"
	MAX. WEB THICKNESS (Max. 5/16" Fillet Weld) WITHOUT WASHER	1"	1 1/8"	1 7/8"	1 1/4"	1 3/8"	2 1/8"
	MAX. WEB THICKNESS (Max. 5/16" Fillet Weld) WITH WASHER	3/4"	7/8"	1 5/8"	7/8"	7/8"	1 7/8"
HG	HEAVY CONN. BOLT GAUGE	N/A	2 1/4"	2 5/8"	3"	3 3/4"	4"
S	NORMAL BOLT SPACING	2 1/2"	3"	3 1/4"	3 1/2"	4"	4 1/2"
BSMIN	MINIMUM SPACING BETWEEN TOP & BOTTOM SETS OF BOLTS	1 1/2"	2 1/4"	2 5/8"	3"	3 3/4"	4"
BSMAX	MAXIMUM BOLT SPACING BETWEEN TOP AND BOTTOM SETS OF BOLTS ON CONNECTION PLATES LESS THAN OR EQUAL TO 3/4" THICK	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
	SPLICE BOLT SPACING (NOT TO EXCEED 2'-0)	1/2 BSMAX (±1/16") WHEN BSMAX = 2'-0 1/16" TO 4'-0 1/3 BSMAX (±1/16") WHEN BSMAX = 4'-0 1/16" TO 6'-0 1/4 BSMAX (±1/16") WHEN BSMAX = 6'-0 1/16" TO 8'-0					
BFCD	MINIMUM BOLT-TO-FLANGE CLEARANCE AT OUT OF NUT SEE BOLT AT FLANGE DETAIL	1 1/2"	1 3/4"	1 7/8"	2 1/4"	2 1/2"	2 3/4"
PF	MINIMUM BOLT-TO-FLANGE CLEARANCE AT CONNECTION PLATE SEE BOLT AT FLANGE DETAIL	(BFCD + RNWT) PF INSIDE OF FLANGE IS INCREASED BASED ON THE YT & YB VALUE. PF FOR CONNECTION B, F, I AND P ARE THE SAME AS USED ON CONNECTION E					
NWT	NUT AND WASHER THICKNESS	SEE BOLT AT FLANGE DETAIL. NUT THICKNESS IS EQUAL TO THE BOLT DIAMETER AND .15625" WASHER THICKNESS IS USED EVEN IF A WASHER IS NOT REQUIRED.					
RNWT	RISE ON NUT AND WASHER THICKNESS						
TT	THICKNESS TOP FLANGE	REFER TO FRAME CROSS SECTION DRAWING FOR LARGEST FLANGE THICKNESS EITHER SIDE OF THE CONNECTION.					
TB	THICKNESS BOTTOM FLANGE						
YT	BOLT SPACING TOP (ROUND UP TO NEXT 1/2", MIN = S)	3" + TT	3 1/2" + TT	3 3/4" + TT	4 1/2" + TT	5" + TT	5 1/2" + TT
YB	BOLT SPACING BOTTOM (ROUND UP TO NEXT 1/2", MIN = S)	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped
EED(S)	MINIMUM SHEARED END EDGE DIMENSION	1 1/4"	1 1/4"	1 1/2"	1 3/4"	2 1/4"	2 5/8"
EED(R)	MINIMUM ROLLED END EDGE DIMENSION	3/4"	1"	1 1/8"	1 1/4"	1 5/8"	2 1/4"
EEDK	END EDGE DIMENSION AT KNEE CONNECTION	1 3/8"	1 3/8"	1 5/8"	1 7/8"	2 3/8"	2 3/4"
BCWM	MINIMUM BOLT CLEARANCE FROM A FLANGE OR WEB WELD — WITHOUT WASHER	7/16"	5/8"	3/4"	13/16"	1"	1 3/8"
	MINIMUM BOLT CLEARANCE FROM A FLANGE OR WEB WELD — WITH HARDENED WASHER	9/16"	3/4"	7/8"	1"	1 1/4"	1 1/2"
WCSM	MINIMUM WIDTH OF CONNECTION PLATE (Standard Connection)	5"	6"	8"	8"	10"	12"
WCHM	MINIMUM WIDTH OF CONNECTION PLATE (Heavy Connection)	N/A	10"	12"	12"	16"	18"
TCMIN	MINIMUM THICKNESS OF CONNECTION PLATE	1/4"	3/8"	7/16"	1/2"	5/8"	1"



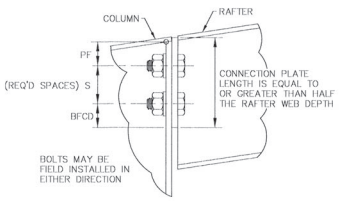
STANDARD CONNECTION DESIGNATION
(CODE 4E/2E SHOWN)



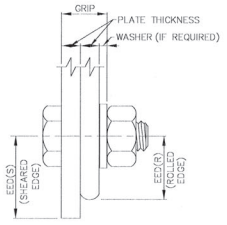
HEAVY CONNECTION DESIGNATION
(CODE 4EH/2EH SHOWN)



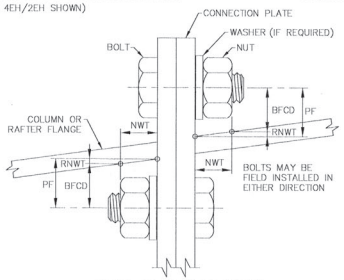
4X CONNECTION DESIGNATION
(CODE 4X/4X SHOWN)



CONNECTION B & P
(Low Side Shown, High Side Similar)



BOLT EDGE DISTANCE



BOLT AT FLANGE DETAIL
(Top Flange Shown, Bottom Flange Similar)

Frame Documentation
A325 Connection Bolt Details

Page 05-12-10
Date Sep '14 Rev. 03



CROSS SECTION CONNECTION CODE KEY
(AS SHOWN AT CONNECTIONS ON FRAME CROSS SECTION DRAWINGS)

Flange Brace Material Schedule	
Part Mark	Material
FB4_	L 2" x 2" x 14 Ga.
FB5_	L 2" x 2" x 14 Ga.
FB6_	L 2" x 2" x 1/8"
FB7_	L 2 1/2" x 2 1/2" x 3/16"

Rev'd	By	Description	Date	Revision

STAR BUILDING SYSTEMS®
P.O. BOX 9410
OKLAHOMA CITY, OK 73143
(405) 528-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E27 of 31

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

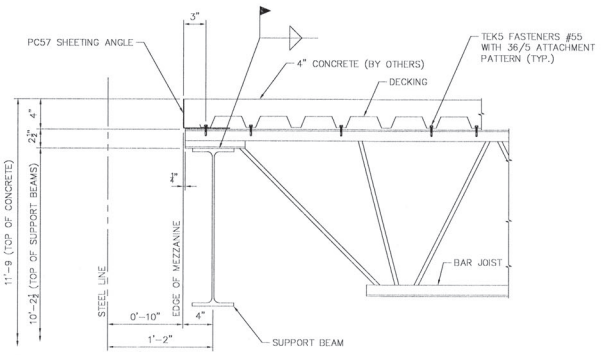
Aaron Kent Batchelor, P.E.
New York P.E. 084702

DISTIA ENSTIA

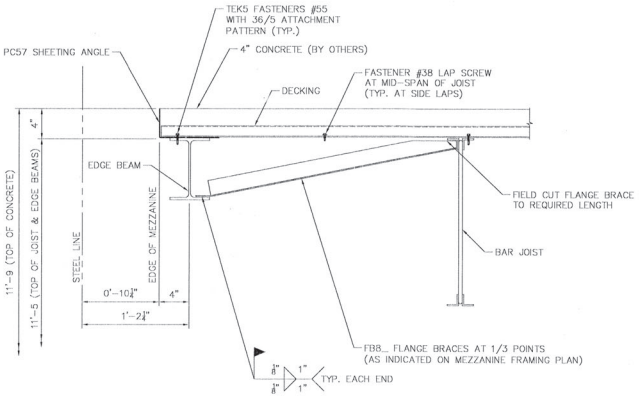


JUN 22, 2016

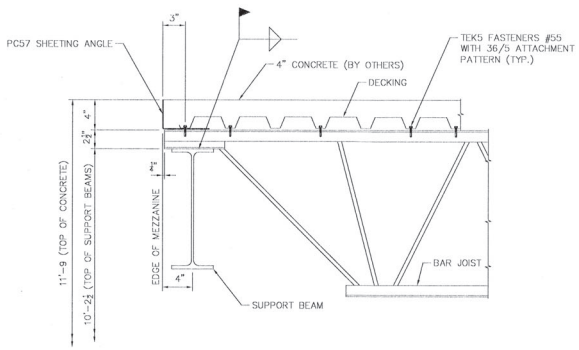
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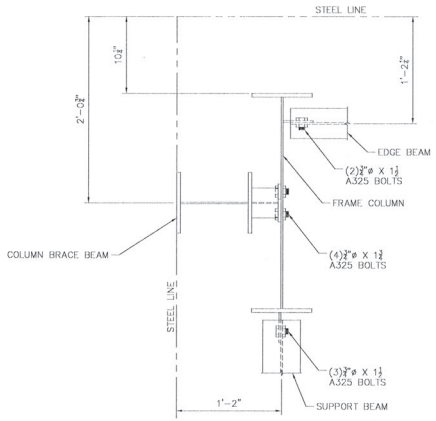
SECTION "A12/E28"



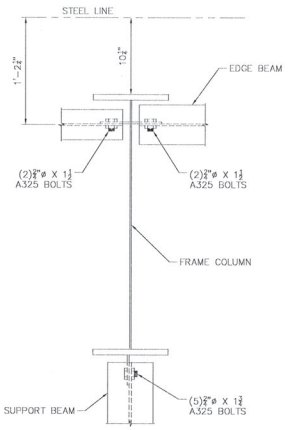
SECTION "B12/E28"



SECTION "C12/E28"



DETAIL "D12/E28"



DETAIL "E12/E28"

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 24910
OKLAHOMA CITY, OK 73143
(405) 528-2010

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E28 of 31

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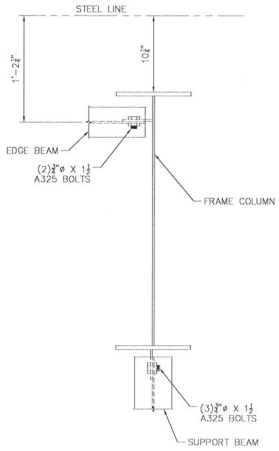
Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

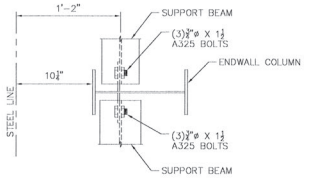
STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER

Jan 22, 2016

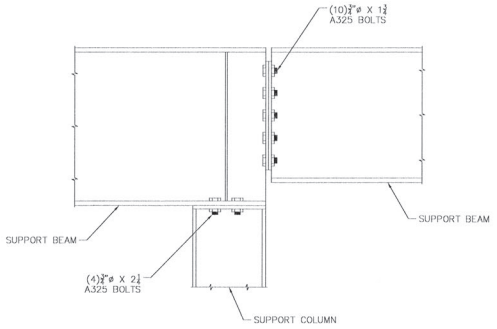
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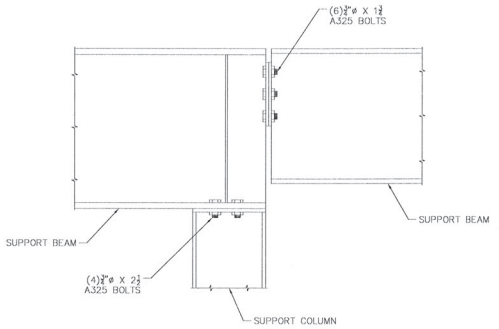
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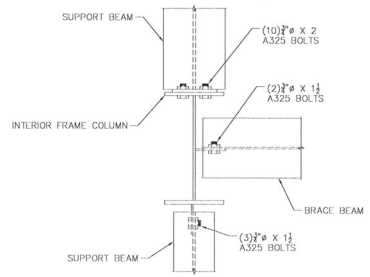
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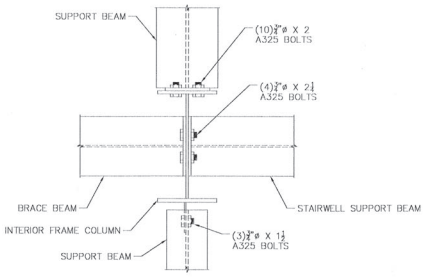
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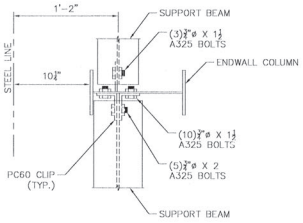
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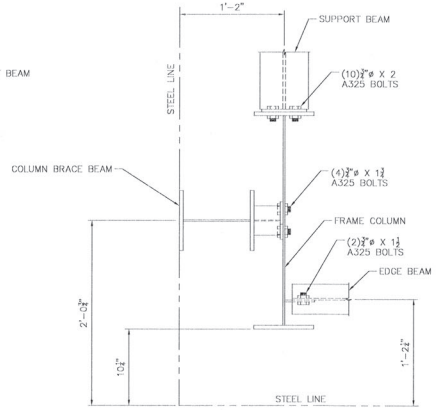
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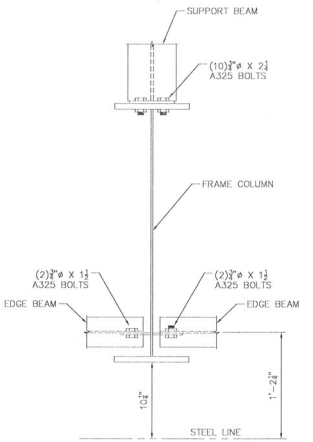
DETAIL "L12/E29"



DETAIL "M12/E29"



DETAIL "N12/E29"



DETAIL "P12/E29"

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
ANTHC COMPANY
P.O. BOX 94910
OKLAHOMA CITY, OK 73143
(405) 525-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAEVA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	LSR 1/22/16
Checked by:	LSA 1/22/16
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	E29 of 31

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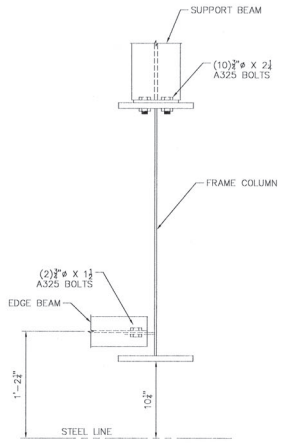
Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

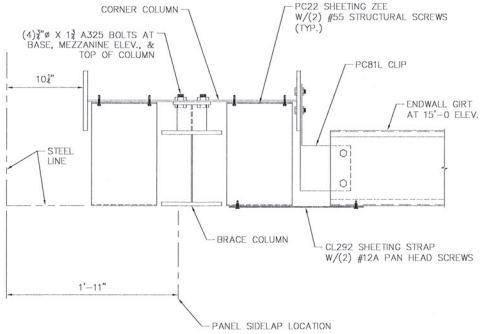
STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER

Jun 22, 2016

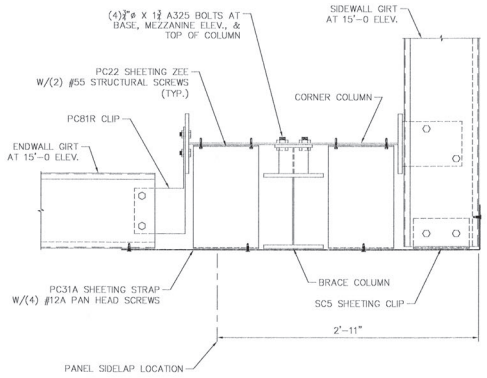
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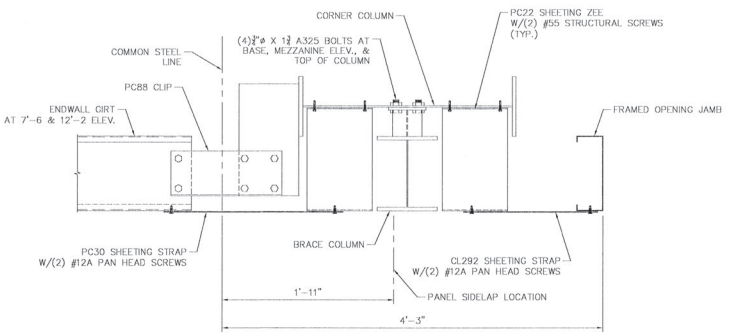
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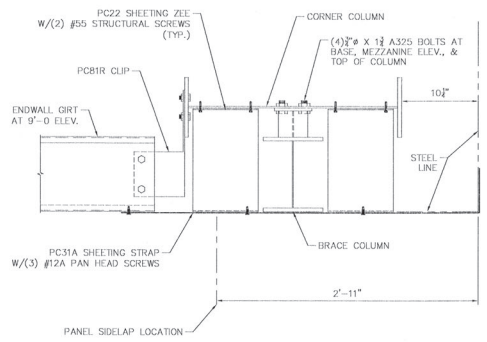
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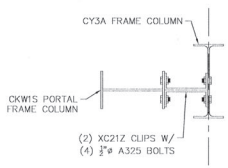
SECTION "B7/E.30"



SECTION "C7/E.30"



SECTION "D7/E.30"



SECTION "A26/E.30"

Revision	Date	Description	By	Ck'd

STAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 94910
OKLAHOMA CITY, OK 73143
(405) 478-8100

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE	
Drawn by:	LSR	1/22/16
Checked by:	LSA	1/22/16
Project Engineer:	MJD	
Job Number:	15-B-10248	
Sheet Number:	E30 of 31	

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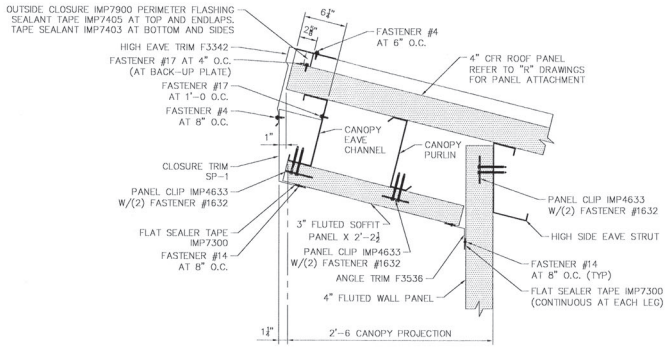
Aaron Kent Batchelor, P.E.
New York P.E. 084702

DRST1A ENST1A

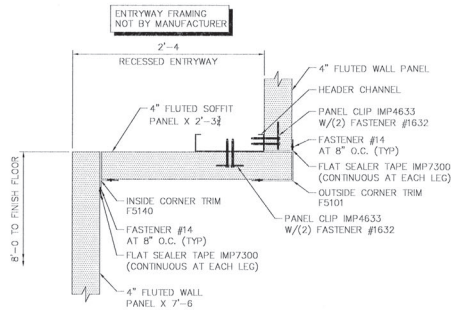
STATE OF NEW YORK
AARON KENT BATCHELOR
084702
LICENSED PROFESSIONAL ENGINEER

Jan 22, 2016

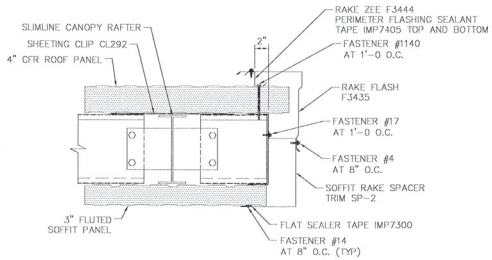
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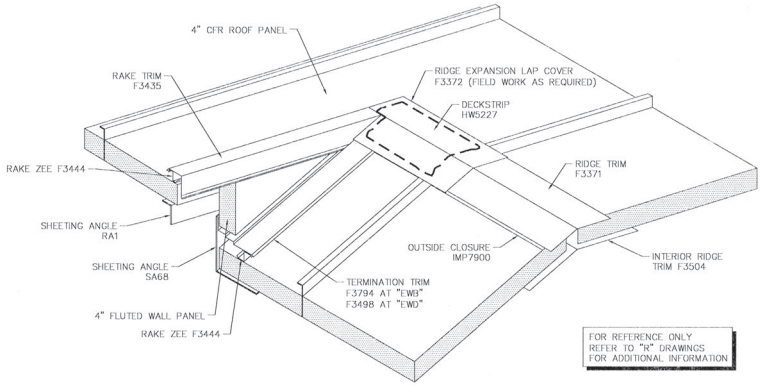
Section "A3/E31"



Section "A5/E31"



Section "A11/E31"



OFFSET FLOATING RIDGE
AT CLERESTORY

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
MANUFACTURING
P.O. BOX 8410
PONCA CITY, OK 73345
(405) 762-2516

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erection Installation

Scale:	NOT TO SCALE	
Drawn by:	LSR	1/22/16
Checked by:	LSA	1/22/16
Project Engineer:	MJD	
Job Number:	15-B-10248	
Sheet Number:	E31 of 31	

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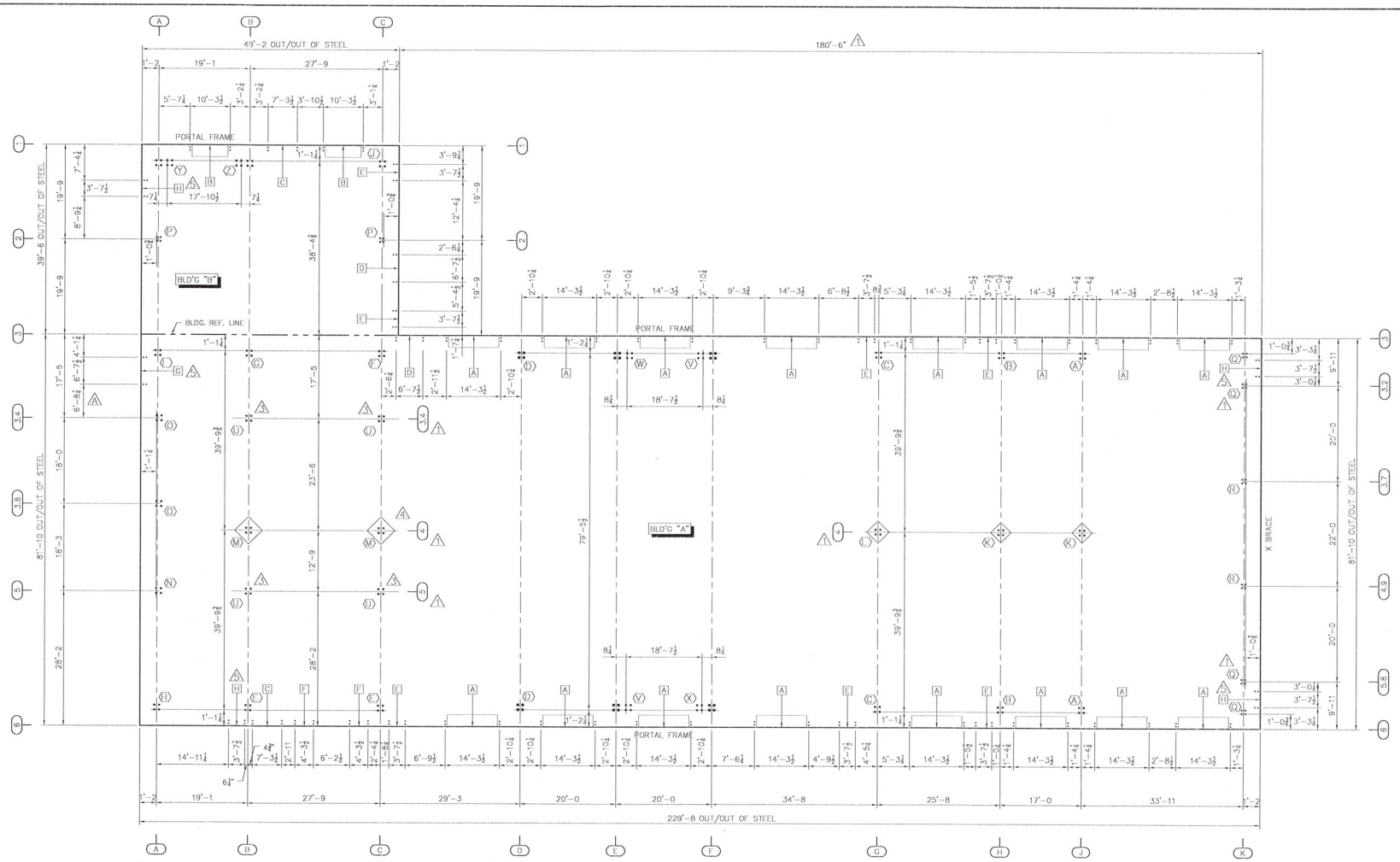
Aaron Kent Batchellor, P.E.
New York P.E. 084702

DRSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER

JAN 22, 2016

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ANCHOR ROD SETTING PLAN

SWC
EWB EWD
SWC
SWA (H.S.)
EWB KEY PLAN EWD
SWA

ANCHOR BOLTS TO BE DESIGNED BY FOUNDATION ENGINEER USING DIAMETERS SHOWN IN THIS TABLE.

ANCHOR ROD DESCRIPTION	QUANTITY
¾" ø DIAMETER X	176
⅞" ø DIAMETER X	132
1" ø DIAMETER X	24

ACCESSORY SCHEDULE

MARK	DESCRIPTION	DETAIL	QUAN.	
A	14'-0 X 14'-0 FRAMED OPENINGS	(T)	16	
B	10'-0 X 10'-0 FRAMED OPENINGS	(AB)	2	A
C	7'-0 X 8'-0 FRAMED OPENINGS	(AA)	2	A
D	6'-4 X 7'-2 FRAMED OPENINGS	(S)	2	A
E	3'-4 X 7'-2 FRAMED OPENINGS	(S)	7	A
F	4'-0 X 4'-0 FRAMED OPENINGS	(AA)	2	A
G	6'-4 X 7'-2 FRAMED OPENINGS	(AA)	1	A
H	3'-4 X 7'-2 FRAMED OPENINGS	(AA)	4	A

FINISH FLOOR AT ELEVATION 100'-0

Anchor Rod Drawings

1) This drawing is for anchor rod placement only and is not foundation design.
2) Foundation must be square and level with all anchor rods true in size, location, and projection.
3) Projection shown must be held to keep threads clear of finished concrete.
4) This structural design data includes magnitude and location of design loads and support conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded and voided by any future mailing.
5) Anchor rod size is determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer, and are not provided by the manufacturer.
6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.

Revision	Date	Description	By	Ch'd
A	10/28/15	REVISED DIMENSION AS NOTED	KRK	HDF
1	12/01/15	REVISED AS NOTED THRU WORK ORDER REV #6	LSI	LES
2	12/08/15	ADDED SECT. "AA" AS NOTED	LSI	LES
3	12/11/15	OMITTED RECESS AT SECT. "J"	LSI	LES
4	12/29/15	OMITTED MEZZ. SUPPORT COLUMN AS SHOWN	LSI	LSR
5	01/22/16	REVISED AS NOTED THRU WORK ORDER #15	LSI	LSR

ASTAR BUILDING SYSTEMS®
ANTHEM COMPANY
P.O. BOX 94813
OKLAHOMA CITY, OK 73143
(405) 634-2612

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by: KRK 10/19/15
Checked by: HNL 10/19/15
Project Engineer: MJD
Job Number: 15-B-10248
Sheet Number: F1 of 8

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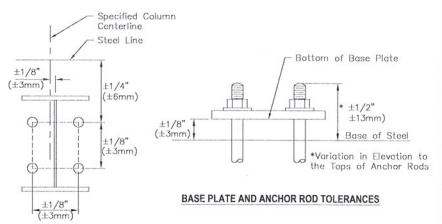
Aaron Kent Batcheller, P.E.
New York P.E. 084702

ORSTIA ENSTIA

STATE OF NEW YORK
AARON KENT BATCHELLER
084702
LICENSED PROFESSIONAL ENGINEER
JAN 22, 2016

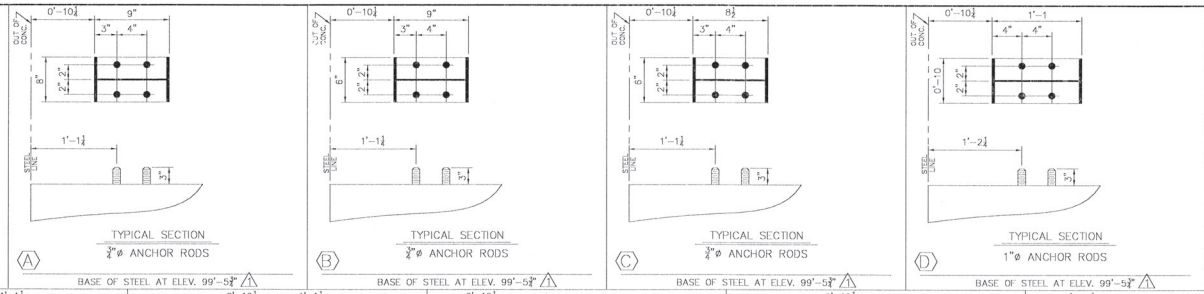
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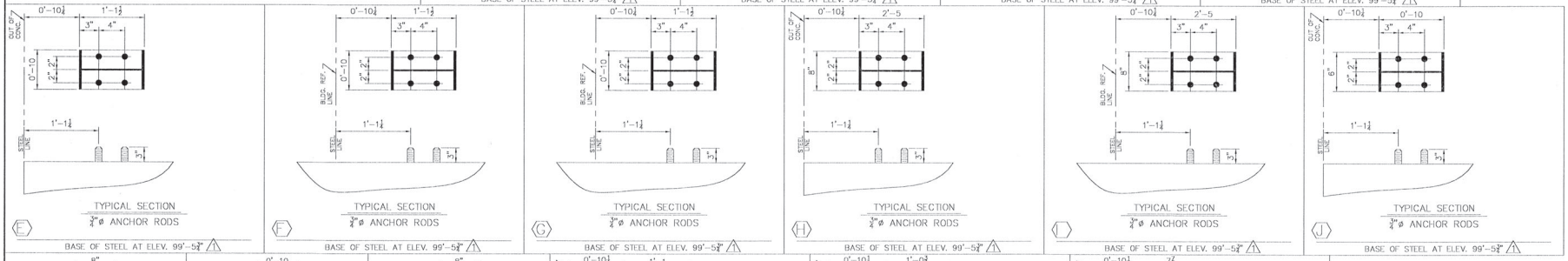
AISC CODE OF STANDARD PRACTICE TOLERANCES FOR SETTING ANCHOR RODS

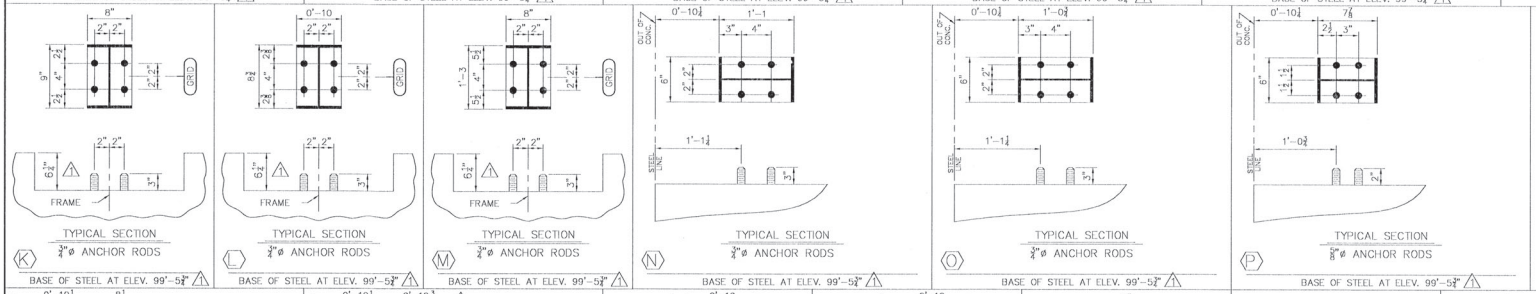


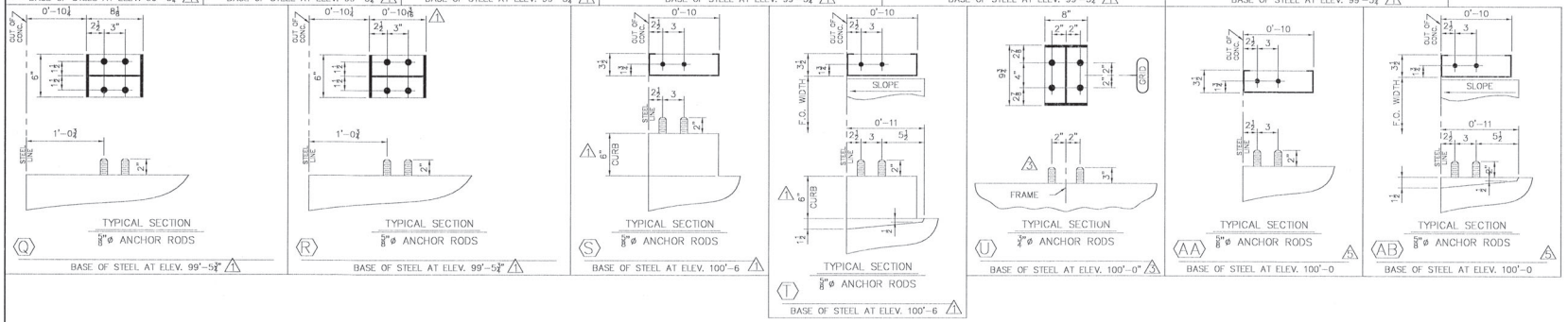
BASE PLATE AND ANCHOR ROD TOLERANCES

ANCHOR ROD SETTING TOLERANCES









Revision	Date	Description	By	Ck'd
A	10/28/15	NO CHANGE THIS SHEET	KRK	HGF
1	12/01/15	REVISED AS NOTED THRU WORK ORDER REV #6	LSJ	LES
2	12/08/15	NO CHANGES TO THIS SHEET	LSJ	LES
3	12/11/15	UPDATED SECT. "U" AS NOTED	LSJ	LES
4	12/29/15	NO CHANGES TO THIS SHEET	LSJ	SJR
5	01/22/16	REVISED AS NOTED THRU WORK ORDER #7	LSJ	SJR

ASTAR BUILDING SYSTEMS®
P.O. BOX 94910
OKLAHOMA CITY, OK 73143
(405) 636-2013
A NUCOR COMPANY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by: KRK 10/19/15
Checked by: HNL 10/19/15
Project Engineer: MJD
Job Number: 15-B-10248
Sheet Number: F2 of 8

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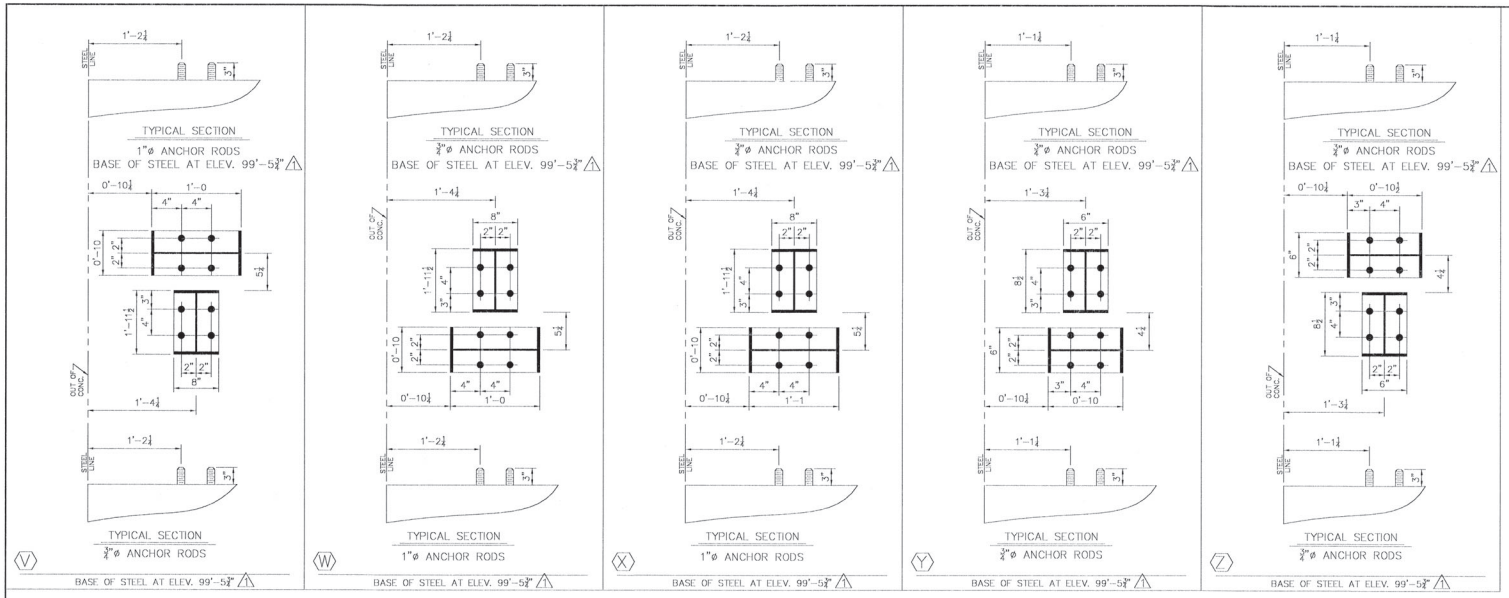
Aaron Kent Batchellor, P.E.
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DRSTIA ENSTIA

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AARON KENT BATCHELLOR
084702
LICENSED PROFESSIONAL ENGINEER

Jan 22, 2016

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⚠1

Revision	Date	Description	By	Ck'd
A	10/28/15	NO CHANGE THIS SHEET	KRK	HGF
1	12/01/15	REVISED AS NOTED THRU WORK ORDER REV #5	LSI	LES
2	12/08/15	ADDED SECT. "AA" AS NOTED	LSI	LES
3	12/11/15	UPDATED SECT. "AA" AS NOTED	LSI	LES
4	12/29/15	SECTION "AA" REMOVED AS NOTED	LSI	LSR
5	01/22/16	NO CHANGE THIS SHEET	LSI	LSR

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Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location:
CITY OF BEACON
BEACON, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale:	NOT TO SCALE
Drawn by:	KRK 10/19/15
Checked by:	HNL 10/19/15
Project Engineer:	MJD
Job Number:	15-B-10248
Sheet Number:	F3 of 8

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FIELD SERVICE PROCEDURES

IN ORDER TO GIVE YOU PROMPT SERVICES AND KEEP PROBLEMS TO A MINIMUM, PLEASE HANDLE ANY SHORTAGES OR BACK CHARGES IN THE FOLLOWING MANNER: CAREFULLY CHECK YOUR PACKING LIST WHILE UNLOADING. MARK ANY ITEMS, WHICH APPEAR TO BE MISSING AND NOTIFY THE FIELD SERVICE DEPARTMENT AT THE NUMBER SHOWN IN THE TITLEBLOCK AS SOON AS POSSIBLE. CALLING SOMEONE ELSE COULD DELAY THE PROPER RESPONSE.

SHORT MATERIALS – IMMEDIATELY UPON DELIVERY OF MATERIAL, QUANTITIES ARE TO BE VERIFIED BY THE CUSTOMER AGAINST QUANTITIES THAT ARE BILLED ON THE SHIPPING DOCUMENT. NEITHER THE MANUFACTURER NOR THE CARRIER IS RESPONSIBLE FOR THE MATERIAL SHORTAGES AGAINST THE QUANTITIES BILLED ON SHIPPING DOCUMENT IF SUCH SHORTAGES ARE NOT NOTED ON SHIPPING DOCUMENTS WHEN THE MATERIAL IS DELIVERED, AND THEN ACKNOWLEDGED BY THE CARRIER'S AGENT. IF THE CARRIER IS THE MANUFACTURER, CLAIMS FOR SHORTAGES ARE TO BE MADE BY THE CUSTOMER TO THE COMMON CARRIER. IF THE MATERIAL QUANTITIES RECEIVED ARE CORRECT ACCORDING TO THE QUANTITIES THAT ARE BILLED ON THE SHIPPING DOCUMENTS, BUT ARE LESS THAN THE QUANTITIES ORDERED OR THE QUANTITIES THAT ARE NECESSARY TO COMPLETE THE METAL BUILDING ACCORDING TO THE ORDER DOCUMENTS, CLAIM IS TOO BE MADE OF THE MANUFACTURER.

DAMAGED OR DEFECTIVE MATERIAL – DAMAGED OR DEFECTIVE MATERIAL, REGARDLESS OF THE DEGREE OF DAMAGE, MUST BE NOTED ON THE SHIPPING DOCUMENTS BY THE CUSTOMER AND ACKNOWLEDGED IN WRITING BY THE CARRIER'S AGENT. THE MANUFACTURER IS NOT RESPONSIBLE FOR MATERIAL DAMAGED IN UNLOADING OF PACKAGED OR NESTED MATERIALS, INCLUDING, BUT NOT LIMITED TO: FASTENERS, SHEET METAL, "C" & "Z" SECTIONS & COVERING PANELS THAT BECOME WET AND/OR DAMAGED BY WATER WHILE IN THE POSSESSION OF OTHERS. PACKAGED OR NESTED MATERIAL THAT BECOMES WET IN TRANSIT MUST BE UNPACKED, UNSTACKED AND DRIED BY THE CUSTOMER. IF THE CARRIER IS THE MANUFACTURER, THE CUSTOMER MUST MAKE CLAIM FOR DAMAGE DIRECTLY TO THE MANUFACTURER. IF THE CARRIER IS A COMMON CARRIER, THE CUSTOMER MUST MAKE THE CLAIM FOR DAMAGE TO THE COMMON CARRIER. THE MANUFACTURER IS NOT LIABLE FOR ANY CLAIM WHATSOEVER INCLUDING, BUT NOT LIMITED TO LABOR CHARGES OF CONSEQUENTIAL DAMAGES RESULTING FROM THE CUSTOMER'S USE OF DAMAGED OF DEFECTIVE MATERIALS THAT CAN BE DETECTED BY VISUAL INSPECTION.

OIL CANNING IS NOT CAUSE FOR REJECTION

EXCESSIVE MATERIAL – THE MANUFACTURER RESERVES THE RIGHT TO RECOVER ANY MATERIAL DELIVERED IN EXCESS OR THOSE REQUIRED BY THE ORDER DOCUMENTS.

INITIAL CLAIM – IN THE EVENT OF ERROR, THE CUSTOMER MUST PROMPTLY MAKE A WRITTEN OR VERBAL "INITIAL CLAIM" TO THE MANUFACTURER FOR THE CORRECTION OF DESIGN, DRAFTING, BILL OF MATERIALS OF FABRICATION ERROR.
THE "INITIAL CLAIM" INCLUDES:
1. DESCRIPTION OF THE NATURE AND EXTENT OF THE ERRORS,INCLUDING QUANTITIES.
2. DESCRIPTION OF THE NATURE AND EXTENT OF PROPOSED CORRECTIVE WORK INCLUDING ESTIMATED MAN-HOURS.
3. MATERIAL TO BE PURCHASED FROM OTHER THAN THE MANUFACTURER, INCLUDING ESTIMATED QUANTITIES AND COST.
4. MAXIMUM TOTAL COST OF PROPOSED CORRECTIVE WORK AND MATERIAL TO BE PURCHASED FROM OTHER THAN THE MANUFACTURER.

R1-01

AUTHORIZATION FOR CORRECTIVE WORK

NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING AND THE DRAWING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN THE MEMBER CONFIGURATION SHOULD BE REPORTED IMMEDIATELY TO THE OWNER AND FABRICATOR BY THE ERECTOR, TO ENABLE WHICHEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMICAL METHOD OF CORRECTION TO BE USED BY OTHERS. (AISC 303–10, SECTION 7.14) (MAR 05 SECTION 7.14) IF THE ERROR IS THE FAULT OF THE MANUFACTURER, AN "AUTHORIZATION FOR CORRECTIVE WORK" MUST BE ISSUED IN WRITING BY THE MANUFACTURER TO AUTHORIZE THE CORRECTIVE WORK AT A COST NOT TO EXCEED THE MAXIMUM TOTAL COST SET FORTH. ALTERNATIVE CORRECTIVE WORK OTHER THAN THAT PROPOSED IN THE "INITIAL CLAIM" MAY BE DIRECTED BY THE MANUFACTURER IN THE "AUTHORIZATION OF CORRECTIVE WORK." ONLY THE FIELD SERVICE DEPARTMENT MAY AUTHORIZE CORRECTIVE WORK.

FINAL CLAIM – THE "FINAL CLAIM" IN WRITING MUST BE FORWARDED BY THE CUSTOMER TO THE MANUFACTURER WITHIN TEN (10) DAYS OF COMPLETION OF THE CORRECTIVE WORK AUTHORIZED BY THE MANUFACTURER.

THE "FINAL CLAIM" MUST INCLUDE:
1. ACTUAL NUMBER OF MAN–HOURS BY DATE OF DIRECT LABOR USE ON CORRECTIVE WORK AND ACTUAL HOURLY RATES OF PAY
2. TAXES AND INSURANCE ON TOTAL ACTUAL DIRECT LABOR.
3. OTHER DIRECT COSTS ON ACTUAL DIRECT LABOR.
4. COST OF MATERIAL (NOT MINOR SUPPLIES) AUTHORIZED BY THE MANUFACTURER TO BE PURCHASED FROM OTHER THAN THE MANUFACTURER, INCLUDING COPIES OF PAID INVOICES.
5. TOTAL ACTUAL DIRECT COST OF CORRECTIVE WORK (SUM OF 1, 2, 3 & 4). THE "FINAL CLAIM" MUST BE SIGNED AND CERTIFIED TRUE AND CORRECT BY THE CUSTOMER. "FINAL CLAIMS" ARE CREDITED TO THE CUSTOMER BY THE MANUFACTURER IN AN AMOUNT NOT TO EXCEED THE LESSER OF THE MAXIMUM TOTAL COST SET FORTH IN WRITING IN THE "AUTHORIZATION FOR CORRECTIVE WORK" OR TOTAL ACTUAL DIRECT COST OF CORRECTIVE WORK.

**** IMPORTANT NOTE **** – COST OF EQUIPMENT (RENTAL OR DEPRECIATION), SMALL TOOLS, SUPERVISION, OVERHEAD AND PROFIT ARE NOT SUBJECTED TO CLAIMS.

SHIPMENT ARRIVAL TIME – EVERY EFFORT WILL BE MADE TO SEE THAT THE CARRIER ARRIVES AT THE JOBSITE ON THE REQUESTED DAY AND AT THE REQUESTED HOUR. MANUFACTURER MAKES NO WARRANTY AND ACCEPTS NO RESPONSIBILITY FOR COSTS ASSOCIATED WITH A SHIPMENT NOT ARRIVING AT A REQUESTED TIME UNLESS A SEPARATE AGREEMENT HAS BEEN MADE IN WRITING FOR A GUARANTEED ARRIVAL TIME.

R1-02

UNLOADING, HANDLING, AND STORING MATERIALS

STRUCTURAL – A GREAT AMOUNT OF TIME AND TROUBLE CAN BE SAVED IF THE BUILDING PARTS ARE UNLOADED AT THE BUILDING SITE ACCORDING TO A PRE–ARRANGED PLAN. PROPER LOCATION AND HANDLING OF COMPONENTS WILL ELIMINATE UNNECESSARY HANDLING.

NOTE: PIECE MARKS ARE STENCILED ON PRIMARY STRUCTURAL MEMBERS AT LOWER END, 1'-0" FROM END. INSPECT ALL SHIPMENTS PRIOR TO RELEASING THE TIE-DOWNS FOR LOADS THAT MAY HAVE SHIFTED DURING TRANSIT!

REMEMBER, SAFETY FIRST!
BLOCKING UNDER THE COLUMNS AND RAFTERS PROTECTS THE SPLICE PLATES AND THE SLAB FROM DAMAGE DURING THE UNLOADING PROCESS. IT ALSO FACILITATES THE PLACING OF SLINGS OR CABLES AROUND THE MEMBERS FOR LATER LIFTING AND ALLOWS MEMBERS TO BE BOLTED TOGETHER INTO SUB–ASSEMBLIES WHILE ON THE GROUND. EXTRA CARE SHOULD ALWAYS BE EXERCISED IN THE UNLOADING OPERATION TO PREVENT INJURIES FROM HANDLING THE STEEL AND TO PREVENT DAMAGE TO MATERIALS AND THE CONCRETE SLAB. IF WATER IS ALLOWED TO REMAIN FOR EXTENDED PERIODS IN BUNDLES OF PRIMED PARTS SUCH AS GIRTS, PURLINS, ETC., THE PIGMENT WILL FADE AND THE PAINT WILL GRADUALLY SOFTEN REDUCING ITS BOND TO THE STEEL. THEREFORE, UPON RECEIPT OF A JOB, ALL BUNDLES OF PRIMED PARTS SHOULD BE STORED AT AN ANGLE TO ALLOW ANY TRAPPED WATER TO DRAIN AWAY AND PERMIT AIR CIRCULATION FOR DRYING. PUDDLES OF WATER SHOULD NOT BE ALLOWED TO COLLECT AND REMAIN ON COLUMNS OR RAFTERS FOR THE SAME REASON.
THE COAT OF SHOP PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR ONLY A SHORT PERIOD OF EXPOSURE TO ORDINARY ATMOSPHERIC CONDITIONS. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER.

TOUCH–UP OF THESE MINOR ABRASIONS IS THE RESPONSIBILITY OF THE END CUSTOMER. ALL PRIMER SHOULD BE TOUCHED UP AS REQUIRED BEFORE ERECTION! – SEE R1–06 TITLED "SHOP PRIMED STEEL."

TEMPORARY SUPPORTS

TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, GRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.).

R1-03

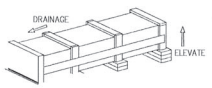
ROOF AND WALL PANELS

MANUFACTURER'S WALL AND ROOF PANELS INCLUDING COLOR COATED, GALVALUME & GALVANIZED, PROVIDE EXCELLENT SERVICE UNDER WIDELY VARIED CONDITIONS. ALL UNLOADING & ERECTION PERSONNEL SHOULD FULLY UNDERSTAND THAT THESE PANELS ARE QUALITY MERCHANDISE, WHICH MERITS CAUTIOUS CARE IN HANDLING.

UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY. PACKAGES OF SHEETS SHOULD BE LIFTED OFF THE TRUCK WITH EXTREME CARE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO ENDS OF THE SHEETS OR TO SIDE RIBS. THE PACKAGES SHOULD BE STORED OFF THE GROUND SUFFICIENTLY HIGH TO ALLOW AIR CIRCULATION UNDERNEATH THE PACKAGES. THIS AVOIDS GROUND MOISTURE & DETERS PEOPLE FROM WALKING ON THE PACKAGES. ONE END OF THE PACKAGE SHOULD ALWAYS BE ELEVATED TO ENCOURAGE DRAINAGE IN CASE OF RAIN. THE MFGR EXERCISES EXTREME CAUTION DURING FABRICATING AND SHIPPING OPERATIONS TO INSURE THAT ALL PANEL STOCK IS KEPT DRY. HOWEVER, DUE TO CLIMATIC CONDITIONS, WATER FORMED BY CONDENSATION OF HUMID AIR CAN BECOME TRAPPED BETWEEN STACKED SHEETS. WATER CAN ALSO BE TRAPPED BETWEEN THE STACKED SHEETS WHEN EXPOSED TO RAIN. THIS MAY CAUSE DISCOLORATION CAUSED BY TRAPPED MOISTURE. THE STAIN IS USUALLY SUPERFICIAL & HAS LITTLE EFFECT ON THE APPEARANCE OR SERVICE LIFE OF THE PANELS AS LONG AS IT IS NOT PERMITTED TO REMAIN ON THE PANELS. HOWEVER, MOISTURE IN CONTACT WITH THE SURFACE OF THE PANELS OVER AN EXTENDED PERIOD CAN SEVERELY ATTACK THE FINISH & REDUCE THE EFFECTIVE SERVICE LIFE. SEE R1–07 "DAMAGE FROM CONDENSATION OR TRAPPED WATER."

CAUTION: CARE SHOULD ALWAYS BE TAKEN WHEN WALKING ON PANELS. USE SAFETY LINES AND NETS WHEN NECESSARY. PANELS ARE SLIPPERY WHEN DRY AND ANY MOISTURE OR SURFACE MATERIAL THAT HAS PUDDLED FROM BUNDLES STORED ON A SLOPE, DEW, FROST, OR OTHER FORMS OF MOISTURE GREATLY INCREASE THE SLIPPERINESS OF THE PANELS. ALWAYS ASSUME PANEL SURFACE IS SLIPPERY & ACT ACCORDINGLY. NEVER WALK OR STEP ON SKYLIGHTS OR TRANSLUCENT PANELS!

USE WOOD BLOCKING TO ELEVATE & SLOPE THE PANELS IN A MANNER THAT WILL ALLOW MOISTURE TO DRAIN. WOOD BLOCKING PLACED BETWEEN BUNDLES WILL PROVIDE ADDITIONAL AIR CIRCULATION. WHEN HANDLING OR UNCRATING THE PANELS, LIFT RATHER THAN SLIDE THEM APART. BURRED EDGES MAY SCRATCH THE COATED SURFACES WHEN SHEETS ARE SLID OVER ONE ANOTHER. NEVER ALLOW PANELS TO BE WALKED ON WHILE ON THE GROUND.



R1-04

DAMAGE DURING CONSTRUCTION

THE QUALITY OF WORKMANSHIP IN STEEL ERECTION, CONSTRUCTION PRACTICES, AND HANDLING METHODS USED DURING THE CONSTRUCTION OF THE METAL BUILDING CAN SIGNIFICANTLY AFFECT THE APPEARANCE AND PERFORMANCE OF THE BUILDING PANELS. PANEL DAMAGE DURING CONSTRUCTION CAN BE THE RESULT OF FAULTY INSTALLATION METHODS AND/OR CARELESSNESS.

OVERDRIVEN FASTENERS CAUSE INDENTATIONS OR SHALLOW POCKETS IN THE PANEL AROUND THE FASTENER HEAD. RAIN WATER OR CONDENSED MOISTURE COMBINED WITH ATMOSPHERIC POLLUTANTS (PRINCIPALLY SULFUR DIOXIDES) AND DIRT PARTICLES COLLECT IN THESE POCKETS. THE COMBINATION OF POLLUTANTS AND WATER CREATES ACID SOLUTIONS THAT WILL CAUSE CORROSION DAMAGE TO THE PANEL AND FASTENER. RAIN MAY WASH SOME POLLUTANTS AWAY, BUT MOISTURE IN THE FORM OF HIGH HUMIDITY CAN KEEP THESE AREAS WET AND CONTINUE THE PROBLEM. OVERDRIVING THE FASTENER ALSO FORCES THE SEALING WASHER FROM UNDER THE FASTENER HEAD CREATING A LEAK AT THIS POINT. PROPER TORQUE ADJUSTMENT OF THE SCREW GUN OR PREFERABLY THE USE OF A DEPTH GAUGE WILL ELIMINATE THE PROBLEM OF OVERDRIVEN FASTENERS.

IT IS EXTREMELY IMPORTANT THAT ALL DRILL SHAVINGS FROM THE INSTALLATION OF PANEL FASTENERS AND FILLINGS FROM THE SAW CUTTING OF PANELS BE REMOVED FROM THE PANEL SURFACE. CORROSION CAN OCCUR IN A MATTER OF HOURS WHEN THESE SHAVINGS OR FILINGS ARE NOT REMOVED AND ARE ALLOWED TO COME IN CONTACT WITH WATER OR CONDENSED MOISTURE. WHEN PANELS ARE PRE–DRILLED OR CUT IN THE STACK PRIOR TO ERECTION ALL SHAVINGS OR FILLINGS MUST BE CLEANED FROM BOTH SIDES OF THE PANEL. TO PREVENT CORROSION OF THE PANEL BY THESE PARTICLES IT IS IMPERATIVE THAT THE ROOF BE SWEPT CLEAN AT LEAST DAILY AND CERTAINLY AT JOB COMPLETION. THE FINAL CLEANING OF THE ROOF SHOULD BE DONE PRIOR TO INSTALLING THE GUTTER SO THAT THE SHAVINGS ARE NOT DEPOSITED INTO THE GUTTER AND LEFT TO CORRODE. ANY OTHER FOREIGN OBJECTS OR DEBRIS LEFT BY CONSTRUCTION PERSONNEL SHOULD ALSO BE REMOVED FROM THE ROOF. DURING THE ERECTION OF THE ROOF AND THE INSTALLATION OF EQUIPMENT SUCH AS AIR CONDITIONING UNITS, ETC...

PERSONNEL WALKING ON THE PANELS CAN CAUSE DAMAGE. WORKMEN SHOULD STEP OR WALK IN THE BROAD FLAT AREAS OF THE PANEL AND AVOID STEPPING ON THE PANEL ENDS AND EDGES WHICH CAN BE BENT BY CARELESS HANDLING. IF THIS DAMAGE IS SEVERE, THE EDGES MUST BE STRAIGHTENED PRIOR TO ERECTION SINCE THE APPEARANCE AND/OR WEATHER TIGHTNESS OF THE PANEL COULD BE AFFECTED. DRAGGING ONE PANEL ACROSS ANOTHER CAN CUT OR ABRADE THE COATING CAUSING UNSIGHTLY MARKS ON THE PANEL SURFACE.

ATTEMPTS TO ERECT PANELS DURING WINDY CONDITIONS SHOULD BE AVOIDED TO PREVENT DAMAGE AND FOR SAFETY CONSIDERATIONS.

LEAVING DIRT PILED AGAINST THE EXTERIOR WALL PANELS AT THE FOUNDATION WILL CAUSE PANEL DAMAGE. THIS DIRT MAY BE WET OR AT LEAST WILL CONTAIN SOME MOISTURE. MUD MAY HAVE BEEN SPLASHED ONTO THE WALL DURING CONSTRUCTION. CORROSION DAMAGE MAY OCCUR WHERE THIS DIRT OR MUD CONTACTS THE PANELS. IN AREAS WHERE LIME STABILIZATION OF THE SOIL IS REQUIRED, CORROSION DAMAGE FROM THE SOIL'S CONTENT WILL BE ACCELERATED AND MOST LIKELY BE SEVERE. ALL DIRT MUST BE REMOVED FROM THE PANEL WALLS AT THE COMPLETION OF THE WORK. PRE–PAINTED PANELS MAY REQUIRE TOUCH–UP IF THE COATING HAS BEEN DAMAGED DURING HANDLING OR ERECTION.

THE APPEARANCE OF THE BLDG. MAY BE AFFECTED IF DAMAGED SPOTS OR SCRATCHES ARE LOCATED IN HIGHLY VISIBLE PLACES SUCH AS AROUND DOORS, WINDOWS, ETC... IF THE DAMAGE IS EXTENSIVE THEN REPLACMENT OF THE ENTIRE PANEL SHOULD BE CONSIDERED.

R1-05

TYPES OF FINISHES

SHOP PRIMED STEEL
ALL STRUCTURAL MEMBERS OF THE METAL BUILDING SYSTEM NOT FABRICATED OF CORROSION RESISTANT MATERIAL OR PROTECTED BY A CORROSION RESISTANT COATING ARE PAINTED WITH ONE COAT OF SHOP PRIMER MEETING THE PERFORMANCE REQUIREMENTS OF SSPC PAINT SPECIFICATION NO. 15. THE COAT OF SHOP PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR ONLY A SHORT PERIOD OF EXPOSURE TO ORDINARY ATMOSPHERIC CONDITIONS. SHOP PRIMED STEEL WHICH IS STORED IN THE FIELD PENDING ERECTION SHOULD BE KEPT FREE OF THE GROUND AND SO POSITIONED AS TO MINIMIZE WATER–HOLDING POCKETS, DUST, MUD AND OTHER CONTAMINATION OF THE PRIMER FILM. REPAIRS OF DAMAGE TO PRIMED SURFACES AND/OR REMOVAL OF FOREIGN MATERIAL DUE TO IMPROPER FIELD STORAGE OR SITE CONDITIONS ARE NOT THE RESPONSIBILITY OF THE MANUFACTURER. THE MANUFACTURER IS NOT RESPONSIBLE FOR DETERIORATION OF THE SHOP COAT OF PRIMER OR CORROSION THAT MAY RESULT FROM EXPOSURE TO ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS, NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING. MINOR ABRASIONS TO THE SHOP COAT (INCLUDING GALVANIZING) CAUSED BY HANDLING, LOADING, SHIPPING UNLOADING AND ERECTION AFTER PAINTING OR GALVANIZING ARE UNAVOIDABLE. (MBMA 06 IV 4.2.4)

GALVALUME
GALVALUME IS THE TRADE NAME FOR A PATENTED STEEL SHEET & COIL PRODUCT HAVING A COATING OF CORROSION RESISTANT ALUMINUM–ZINC ALLOY. THE ALLOY MIXTURE IS BALANCED TO OBTAIN THE COATING THAT RETAINS THE CORROSION RESISTANCE & HEAT REFLECTIVITY OF ALUMINUM & THE SACRIFICAL ACTION OF GALVANIZED. THE BEST PROPERTIES OF BOTH ALUMINUM & ZINC ARE COMBINED IN THIS COATING & OFFER ADDED SERVICE LIFE FOR BUILDING PANELS.

PRE-PAINTED
USING GALVALUME STEEL AS A SUBSTRATE, PRE–PAINTED STEEL IS GIVEN AN ADDITIONAL RUST INHIBITOR PRIMER COAT. THIS PRIMER COAT FURTHER INCREASES THE CORROSION RESISTANCE. THESE COATINGS ARE APPLIED TO THE EXTERIOR SURFACE OF THE PANELS AND THE WASH COAT, DESIGNED ONLY FOR INTERIOR USE, IS APPLIED ON THE OPPOSITE SIDE. GALVALUME AND PRE–PAINTED STEEL CAN GIVE EXCELLENT SERVICE FOR MANY YEARS IF A FEW RULES CONCERNING THEIR CARE AND MAINTENANCE ARE OBSERVED. ALL OF THESE FINISHES ARE EQUALLY SUBJECT TO DAMAGE AND CORROSION WHEN CARE IS NOT PROVIDED.

PAINT AND COATING MAINTENANCE

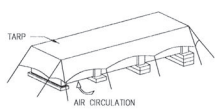
REMOVE SMUDGE MARKS FROM BARE GALVALUME®. FORMULA 409 HAS PROVEN TO BE SOMEWHAT EFFECTIVE. LIGHTLY RUB WITH A CLEAN CLOTH AND RINSE WITH WATER. DO NOT RUB MORE THAN REQUIRED TO REMOVE SMUDGE. NO PRODUCT WILL REMOVE ALL SMUDGE MARKS. REMOVE RUST STAINS. SOFT SCRUB WITHOUT BLEACH HAS PROVEN TO BE SOMEWHAT EFFECTIVE. LIGHTLY RUB WITH A SOFT CLOTH AND RINSE WITH WATER. DO NOT RUB MORE THAN REQUIRED TO REMOVE STAIN. NO PRODUCT WILL COMPLETELY REMOVE RUST STAINS. TO TOUCH–UP SCRATCHES IN PAINT (NOT TO BARE METAL), CLEAN AREA TO BE PAINTED WITH MILD DETERGENT. RINSE THOROUGHLY AND DRY. USING A SMALL ARTIST'S BRUSH, LIGHTLY APPLY THE MINIMAL AMOUNT OF COLOR MATCHED TOUCH–UP PAINT REQUIRED TO FILL/COVER THE SCRATCH. CONTACT BUILDING MANUFACTURER FOR ASSISTANCE WITH ORDERING/PURCHASING TOUCH–UP PAINT AS NEEDED.

R1-06

DAMAGE FROM CONDENSATION OR TRAPPED WATER

IT IS EXTREMELY IMPORTANT THAT THE PANELS BE MONITORED FOR EVIDENCE OF TRAPPED WATER OR MOISTURE CONDENSATION WHILE AWAITING ERECTION. HIGH HUMIDITY CONDITIONS WITH TEMPERATURE CYCLING WILL CAUSE CONDENSATION BETWEEN THE PANELS WITHIN THE BUNDLE. CONDENSATION CAN OCCUR FREQUENTLY NEAR THE SEA COAST OR OTHER LARGE BODIES OF WATER.

IF JOBSITE COVERS ARE USED, THEY SHOULD BE TIED AWAY FROM THE BUNDLE AT THE CORNERS TO ALLOW AIR CIRCULATION AROUND THE BUNDLE. THIS WILL HELP PREVENT MOISTURE EVAPORATING FROM THE GROUND OR BUILDING FLOOR FROM CONDENSING ON THE PANELS. PLASTIC OR OTHER IMPERMEABLE COVERS ARE NOT RECOMMENDED. IMMEDIATE ACTION IS REQUIRED IF THE PANELS ARE FOUND TO BE WET FROM ANY CAUSE. THE BUNDLES MUST BE OPENED AND EACH PANEL UNSTACKED AND THOROUGHLY DRIED ON BOTH SIDES. RE–STACKING THE PANELS AT A SLIGHT ANGLE TO EACH OTHER TO PREVENT NESTING WILL ALLOW AIR CIRCULATION AND ASSIST IN KEEPING THE PANELS DRY. IN SEVERE CONDITIONS LARGE FANS CAN BE USED TO CIRCULATE AIR BETWEEN THE UNSTACKED PANELS AND ACCELERATE DRYING. DAMAGE TO THE PANEL COATING OCCURS WHEN PANELS BECOME WET AND ARE ALLOWED TO STAY WET. DAMAGE CAN OCCUR TO NESTED PANELS WITHIN 24–48 HOURS. THIS DAMAGE SHOWS AS CORROSION AND DISCOLORATION OF THE PANEL SURFACE AND IS COMMONLY CALLED WET STORAGE STAIN, ZINC OXIDATION, OR "WHITE RUST".



A SOFTENING OF THE PAINT FILM CAN OCCUR WITH PRE–PAINTED STEEL UNDER WET STORAGE CONDITIONS AND THE DURABILITY OF THE PANEL FINISH SUBSTANTIALLY DECREASED. BARE GALVANIZED AND GALVALUME PANELS REACT MORE QUICKLY TO SURFACE OXIDATION SINCE THEY LACK THE ADDITIONAL PROTECTION OF PAINT. ZINC COATED OR GALVALUME PANELS UNDER NORMAL EXPOSURE FORM A ZINC OR ALUMINUM OXIDE FILM ON THEIR SURFACE. ALLOWING A SLOW OXIDATION PROCESS CALLED "WEATHERING" TO OCCUR THAT INHIBITS FURTHER CORROSION. IN NESTED BUNDLES CONSTANT CONTACT OF THE PANELS WITH CONDENSED OR TRAPPED WATER PREVENTS THIS WEATHERING PROCESS.

RAPID OXIDATION OF THE ZINC OR ZINC ALUMINUM COATING CAN NOW OCCUR AND MAY LEAD TO "RED RUST" IN A SHORT TIME. IF DISCOLORATION OR STAINS ARE MINOR, A HOUSEHOLD CLEANER OF THE TYPE USED ON PORCELAIN SINKS AND BATHTUBS MAY BE USED TO REMOVE THE STAINS. WIRE BRUSHING OR USING ABRASIVE MATERIALS SHOULD BE AVOIDED SINCE SCRATCHING OR REMOVAL OF THE COATING COULD OCCUR. PANELS WITH SIGNIFICANT DAMAGE SHOULD BE REPLACED BY THE BUYER BEFORE ERECTION.

R1-07

SAFETY COMMITMENT

THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR APPLYING AND OBSERVING ALL PERTINENT SAFETY RULES AND OSHA STANDARDS AS APPLICABLE.
THE BUILDING MANUFACTURER HAS A COMMITMENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE SAFELY ERECTED. HOWEVER, THE SAFETY COMMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE CONTROL OF THE BUILDING MANUFACTURER.
IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICE'S IE THE TOP PRIORITY OF ANY JOB SITE.
LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, WHETHER STANDARD STATUTORY OR CUSTOMARY, SHOULD ALWAYS BE FOLLOWED TO HELP INSURE WORKER SAFETY.
MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES. DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL AND SAFETY NETS WHERE APPLICABLE, ARE RECOMMENDED.
FOR PURPOSES OF DETERMINING LIFT REQUIREMENTS, NO BUNDLE SUPPLIED BY THE MANUFACTURER WILL EXCEED 4,000 POUNDS. FOR FURTHER INFORMATION ALSO REFERENCE THE BILL OF MATERIALS FOR INDIVIDUAL MEMBER WEIGHTS OF OTHER STRUCTURAL MEMBERS. IF ADDITIONAL INFORMATION IS REQUIRED CONTACT THE FIELD SERVICE DEPARTMENT.

ICE AND SNOW REMOVAL

EXCESSIVE ICE AND SNOW SHOULD BE REMOVED FROM ROOF IMMEDIATELY TO PREVENT DAMAGE TO ROOF AND POSSIBLE COLLAPSE. DO NOT USE METAL TOOLS TO REMOVE THE ICE OR SNOW AS THIS CAN DAMAGE THE PAINT AND/OR GALVALUME COATINGS. ALSO, BE CAREFUL AROUND PLUMBING PIPES AND FLASHINGS.
BE EXTREMELY CAREFUL IF YOUR ROOF HAS LIGHT TRANSMITTING PANELS. THESE PANELS WILL NOT SUPPORT A PERSON'S WEIGHT AND WILL BE DIFFICULT OR IMPOSSIBLE TO SEE IF THEY ARE COVERED WITH ICE AND SNOW. SEE 2002 MBMA LOW–RISE BUILDING SYSTEMS MANUAL APPENDIX A8 FOR DETAILS ON SNOW REMOVAL PROCEDURES. THESE PROCEDURES SHOULD COMMENCE WHEN HALF OF THE DESIGN ROOF SNOW LOAD SHOWN ON THIS SHEET IS REALIZED.

DEBRIS REMOVAL

ANY FOREIGN DEBRIS SUCH AS SAWDUST, DIRT, LEAVES, ANIMAL DROPPINGS, ETC. WILL CAUSE CORROSION OF THE ROOF, GUTTERS, TRIM, ETC. IF LEFT ON BUILDING SURFACE FOR A LONG ENOUGH TIME. THE ROOF SHOULD BE PERIODICALLY INSPECTED FOR SUCH CONDITIONS AND IF FOUND, THEY SHOULD BE RECTIFIED IN A MANNER CONSISTENT WITH THESE ROOF MAINTENANCE GUIDELINES. NEVER ALLOW TREATED LUMBER OR CONCRETE/MORTAR/GROUT TO COME IN CONTACT WITH ROOF PANELS, ESPECIALLY GALVALUME®, FOR EXTENDED PERIODS OF TIME.

PERIODIC INSPECTION

ALL HIGH–STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED FOR TIGHTNESS, PARTICULARLY IN CRANE BUILDINGS AND AFTER ANY SEISMIC ACTIVITY OR WIND ACTIVITY. THE CRANE MANUFACTURER WILL SPECIFY A MINIMUM PERIOD BUT IT SHOULD NOT EXCEED 2 YEARS.

DRAINAGE

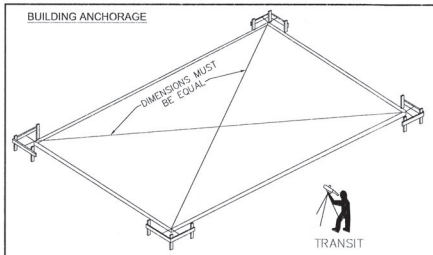
* KEEP ROOF FREE OF DEBRIS AND KEEP DEBRIS OUT OF GUTTER TO ALLOW WATER TO QUICKLY DRAIN FROM ROOF.
* DO NOT USE WOOD BLOCKING TO HOLD EQUIPMENT OFF OF PANEL SEAMS. THIS BLOCKS THE FLOW OF WATER AND HOLDS MOISTURE.
* DO NOT ALLOW ROOFTOP AC UNITS OR EVAPORATIVE COOLERS TO DRAIN ONTO THE ROOF.
* ANYTHING THAT TRAPS OR HOLDS MOISTURE ON A ROOF WILL CAUSE PREMATURE CORROSION.

R1-08

ROOF MAINTENANCE GUIDELINES

* INSPECT ROOF FOR DAMAGE AFTER HEAVY STORMS.
* INSPECT AND RESEAL AS NECESSARY ALL ROOF CURBS AND OTHER PENETRATIONS WITH URETHANE SEALANT.
* ALWAYS GET MANUFACTURER APPROVAL BEFORE MAKING ANY MODIFICATIONS TO THE ROOF.
* REPAINT ANY AREAS THAT ARE SUSCEPTIBLE TO RUST AS REQUIRED.
* WHEN PERFORMING ROOF MAINTENANCE, ALWAYS TAKE THE FOLLOWING PRECAUTIONS:
  * USE FALL PROTECTION AND OTHER SAFETY EQUIPMENT AS REQUIRED.
  * DO NOT WALK ON ROOF FLASHINGS SUCH AS GUTTER, RAKE, HIP OR RIDGE FLASH.
  * DO NOT WALK ON LIGHT TRANSMITTING PANELS (LTPS). THEY WILL NOT SUPPORT A PERSON'S WEIGHT.
  * GUARD ALL LTPS AND ROOF OPENINGS.
* STEP ONLY IN THE PANEL FLAT DIRECTLY ON OR IN CLOSE PROXIMITY TO A SUPPORTING ROOF STRUCTURAL.
* AFTER OTHER TRADES HAVE BEEN ON THE ROOF FOR ANY REASON, INSPECT THE ROOF FOR DAMAGE CAUSED BY WORKERS INCLUDING CHEMICAL OR SOLVENT SPILLS, SCRATCH

BUILDING ANCHORAGE



1. To determine that the foundation is square, measure diagonal dimensions to be sure they are of equal length.
2. To determine that the foundation is level, set up a transit or level and use a level rod to obtain the elevation at all columns.
3. Carefully check the location of all anchor rods against the Anchor Rod Setting Plan furnished by the Manufacturer. All dimensions must be identical to assure a proper start-up.

AISC CODE OF STANDARD PRACTICE TOLERANCES FOR SETTING ANCHOR RODS

7.5.1. Anchor rods, foundation bolts and other embedded items shall be set by the owner's designated representative for construction in accordance with embedment drawings that have been approved by the owner's designated representatives for design and construction. The variation in location of these items from the dimensions shown in the embedment drawings shall be as follows:

(a) The variation in dimension between the centers of any two anchor rods within an anchor–rod group shall be equal to or less than 1/8 in. [3 mm].
(b) The variation in dimension between the centers of adjacent anchor–rod groups shall be equal to or less than 1/4 in. [6 mm].
(c) The variation in elevation of the tops of anchor rods shall be equal to or less than plus or minus 1/2 in. [13 mm].
(d) The accumulated variation in dimension between centers of the anchor–rod groups along the column line through multiple anchor–rod groups shall be equal to or less than 1/4 in. per 100 ft [2 mm per 10000 mm], but not to exceed a total of 1 in. [25 mm]
(e) The variation in dimension from center of any anchor–rod group to the column line through that group shall be equal to or less than 1/4 in. [6 mm].

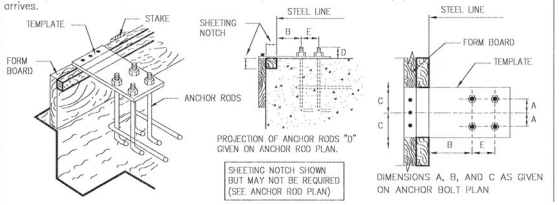
The tolerances that are specified in (b), (c) and (d) shall apply to offset dimensions shown in the structural design drawings, measured parallel and perpendicular to the nearest column line, for individual columns that are shown in the structural design drawings as offset from column lines.

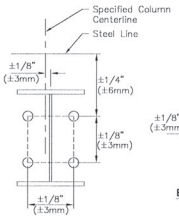
7.5.2. Unless otherwise specified in the contract documents, anchor rods shall be set with their longitudinal axis perpendicular to the theoretical bearing surface.

7.5.3. Embedded items and connection materials that are part of the work of other trades, but that will receive structural steel, shall be located and set by the owner's designated representative for construction in accordance with an approved embedment drawing. The variation in location of these items shall be limited to a magnitude that is consistent with the tolerances that are specified in Section 7.13 for the erection of the structural steel.

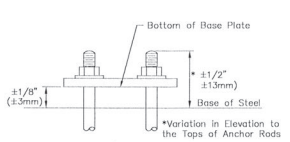
7.5.4. All work performed by the owner's designated representative for construction shall be completed so as not to delay or interfere with the work of the fabricator and the erector. The owner's designated representative for construction shall conduct a survey of the as–built locations of anchor rods, foundation bolts and other embedded items, and shall verify that all items covered in Section 7.5 meet the corresponding tolerances. When corrective action is necessary, the owner's designated representative for construction shall obtain the guidance and approval of the owner's designated representative for design.

It is extremely important that anchor bolts be placed accurately in accordance with the Anchor Rod Setting Plan. All anchor rods should be held in place with a template or similar means, so that they will remain plumb and in correct location during placing of the concrete. A final check should be made after the completion of the concrete work and prior to the steel installation. This will allow any necessary corrections to be made before the costly installation labor and equipment arrives.



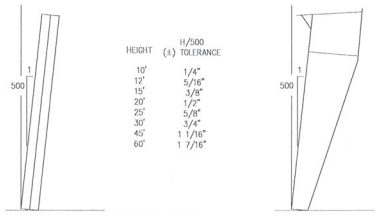


ANCHOR ROD SETTING TOLERANCES

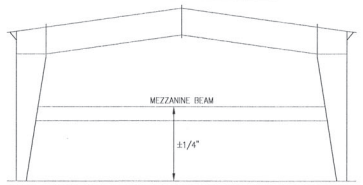


BASE PLATE AND ANCHOR ROD TOLERANCES

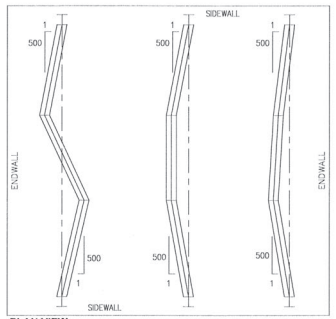
FIELD TOLERANCES



COLUMN ALIGNMENT TOLERANCES



MEZZANINE BEAM HEIGHT TOLERANCE

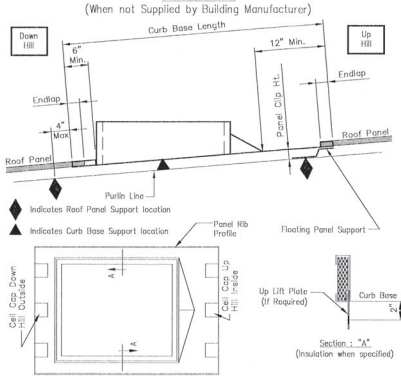


PLAN VIEW

ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES

ROOF CURBS

(When not Supplied by Building Manufacturer)

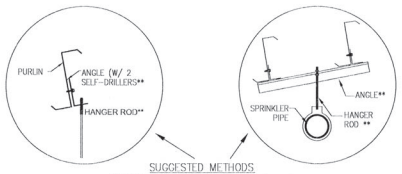


The curb details shown illustrate the building manufacturers recomended curb style and installation method. It is the erector / installer's responsibility to provide the proper curb style and install them in accordance with the procedures established by these details. Failure by the erector / installer to follow these recommendations may result in the curbs damaging the roof system or excluded from warranties.

All roof curbs to be:

1. .080 Aluminum or 18ga. Stainless (No Galvalume/No Galvanized)
2. Panel rib to rib installation (No flat skirt or lay–over Curbs)
3. Installed over low end / under high end application for water flow at panel splice
4. Up lift prevention for clip applied roof systems are required if:
   a. Wind load exceeds 110 mph or
   b. Curb base crosses a purlin
5. Supported on (4) four side by primary or secondary framing 6. Max Single Curb weight Recommend = 1500#

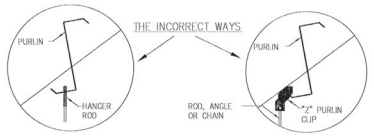
SUGGESTED METHOD OF PURLIN ATTACHMENT (FOR BLDG ACCESSORIES)



SUGGESTED METHODS

** (Not by Metal Bldg Manufacturer)

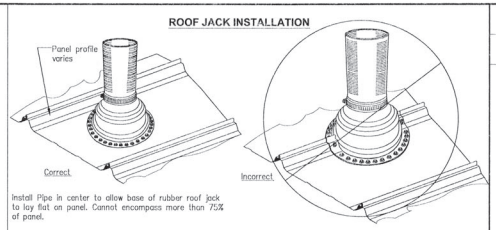
An angle is self–tapped to the web of the purlin to catch hanger rod. This method does not preclude other forms of attachment to the purlin web. The total hanger load shall not exceed the design collateral load for the building. A sample calculation is shown below:
5' (purlin spacing) x 5' (hanger spacing) x 6 psf (collateral load) = 150 lbs.
See cover sheet for design collateral load for this building.
Note: If this building is designed for 0 psf collateral load, then adding any suspended system (ie. duct work, piping, lights, ceilings, etc.) will correspondingly reduce the design live load.



DO NOT INSTALL HANGER ROD IN FLANGE OF PURLIN

DO NOT INSTALL PURLIN CLIPS OF ANY KIND ON FLANGE OF THE PURLIN AS SHOWN

ROOF JACK INSTALLATION

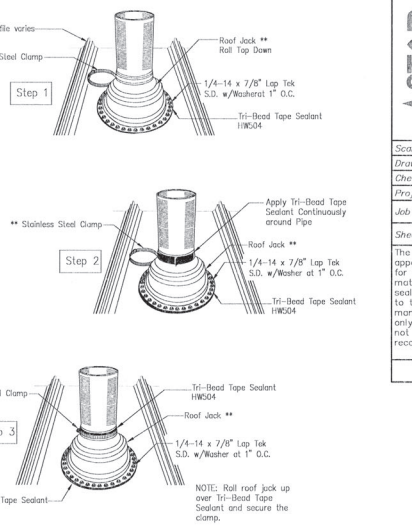


Install Pipe in center to allow base of rubber roof jack to lay flat on panel. Cannot encompass more than 75% of panel.

- ☐ Do not use galvanized roof jacks, lead hats or other residential grade roof jacks. These roof jacks do not have 20–year service life and, in the case of lead hats, will cause galvanic corrosion of the roof panels.
- ☐ Use EPDM rubber roof jacks with an integral aluminum band bonded into the perimeter of the base. For high temperature applications (200–400 degrees Fahrenheit) use silicone rubber roof jacks. Retrofit rubber roof jacks are available for applications in which the top of the pipe is inaccessible, eliminating the possibility of sliding the roof jack over the top of the pipe.
- ☐ Do not use tube caulk/silicone to seal roof jack to the roof panels. Use only tape sealant as supplied by Metal Bldg Manufacturer. Fasten the roof jack to the roof panels with 1/4"–14 x 7/8" Lap Tek Stitch Screws at 1" on center around base of roof jack.
- ☐ Roll down the top of the roof jack and apply tape sealant continuously around the exposed portion of the pipe. Roll the top of the roof jack back over the tape sealant. Apply the stainless steel clamp over top of roof jack and firmly tighten to form a secure compression seal.
- ☐ Do not install a pipe through the standing seam of the roof panel. Keep pipe penetration in center of panel to allow the base of the rubber roof jack to seal to the pan of the panel.
  If a pipe must be installed through a panel seam, or if the pipe diameter is so large to block the flow of water down the roof panel, you must install a "pipe curb" into the roof and then seal the pipe curb with rubber roof jack. For pipes in which top cannot be accessed, a two–piece pipe curb is available.
- ☐ In Northern climates, protect all pipe penetrations from moving ice or snow with a snow retention system immediately up slope from the pipe.

ROOF JACK INSTALLATION

(Not by Metal Bldg Manufacturer) **



Revision	Date	Description	By	Ck'd

STAR BUILDING SYSTEMS®
P.O. BOX 94413 OKLAHOMA CITY, OK 73143 (405) 634-2013

Project Name & Location: CITY OF BEACON BEACON, NY

Customer: STEEL SOLUTIONS INC RAVENA, NY

Drawing Status: ☐ Preliminary (Not For Construction) ☐ For Approval (Not For Construction) ☐ For Construction Permit ☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15–B–10248
Sheet Number: R2 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only.The undersigned engineer is not the overall engineer of record for this project.

DRSTTA ENSTTA

Erection Guide

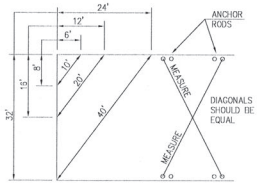
Page R2
Date Oct '15 Rev. 05

PRE-ERECTION NOTES:

The following notes, procedures and suggested recommendations are important parts of the pre-erection process.

1.) Prior to the time the erection crew arrives, a responsible person should check the job site for foundation readiness, square, and accuracy and Anchor Rod size and location.

The drawing shown below indicates a method which may be used to check the foundation and bolts for square.



Measure along adjacent sides of foundation using a pair of dimensions shown. If the diagonal distance between these points is as noted, the corner is square. Diagonal measurements between opposite Anchor Rods will indicate if these bolts are set square.

2.) When unloading the building, carefully check off each item from the packing list. Bundles and boxes will have a list attached indicating the contents.

3.) Unload and layout the building columns on the foundation.

4.) Unload the rafters onto the foundation so that they can be erected from whichever end of the building you wish to start. Your crane will move from one end of the building to the other while standing columns and hanging rafters .

5.) Layout the girts and purlins on dunnage or wood blocking around the foundation as near as possible to where they will be installed.

6.) Unload and place trim crates out of the way, since these will be the last required.

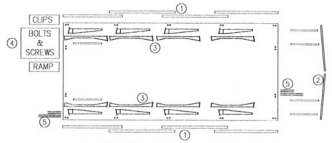
7.) Unload and place panels and insulation out of the way.

NOTE: In extremely cold conditions, the vinyl facing on insulation will become brittle, requiring very careful handling.

8.) Avoid lifting panel stacks with cables, chains or other devices which could damage the panel. Upon unloading, and every morning thereafter, inspect he panel bundles for moisture between the panels. This is especially important with galvalume or galvanized panels. The panel finish must be protected at all times before and during erection to preserve the appearance and function of the panels.

9.) All hardware boxes should be protected from theft and moisture, especially items such as tube caulking and locksets. Store mastic away from heat.

LAYOUT OF BUILDING COMPONENT



1. Girts, Eave Struts and Purlins
2. End Frames and Endpost
3. Main Frames
4. Clips, Bolts, Screws, ETC.
5. Endwall Girts

1.) Layout primary and secondary framing around the slab as shown.

2.) Place components and crates on the slab or on wood blocking to prevent contact with the ground.

3.) Block one end of components higher than other end to allow drainage of rain water.

4.) Leave one end of the building open for erection equipment access.

5.) Construct temporary ramp of timbers from grade to slab to prevent damage to concrete edge from equipment traffic.

6.) Install clips and flange braces onto columns and rafters before these members are in the air. Clip and flange brace locations are shown on erection drawings.

GENERAL ERECTION NOTES

1.) All clips, flange braces, bolts, bracing systems, ETC. must be installed as shown on erection drawings.

2.) It is extremely important, especially during construction, that panels at the eaves, rakes and ridges be kept secure.

3.) Column bases must not be lag screwed or "RED HEADED" to concrete unless specified on erection drawings for the building.

4.) Tighten column wind brace rods/cables (exterior and interior) before tightening roof rods/cables. Roof rods/cables are tightened from eave to peak. 5.) High strength bolts (A325) must be used where specified.

TEMPORARY CONSTRUCTION BRACING

1.) It is the responsibility of the erector to maintain stability of the structure during all stages of erection, particularly when left overnight.

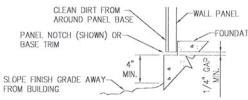
2.) Temporary supports, such as temporary guys, braces or other elements shall be the total and complete responsibility of the erector. The temporary supports required shall be determined and furnished by the erector.

3.) Temporary construction supports shall be provided wherever necessary to accommodate all construction loads to which the structure may be subjected, left in place as long as may be required for safety.

PANEL CAUTIONS AND NOTES

To minimize potential of corrosive action at the bottom edge of wall panels, the contractor must assure that the following procedures are followed:

1.) The concrete foundation should be cured for a minimum of seven (7) days before wall panels are installed. (un-cured concrete is highly alkaline and metal panels can undergo varying degrees of corrosive attack when in direct contact with the concrete.) After the first week of the curing cycle, the reaction between metallic coatings on steel and the concrete is essentially halted.



2.) Top of finish grade at building to be a minimum of four (4) inches below bottom of panel.

3.) Finish grade is to slope away from building to ensure proper drainage.

4.) Upon completion of finish grading, all dirt is to be cleaned from around base of wall panel where it may have collected in panel notch or on base trim.

FASTENER INSTALLATION

Correct fastener installation is one of the most critical steps when installing roof/wall panels. Drive the fastener in until it is tight and the washer is firmly seated. Do not overdrive fasteners. A slight extrusion of neoprene around the washer is a good visual tightness check. Always use the proper tool to install fasteners. A fastener driver (screw gun) with a RPM of 1700-2000 should be used for self-drilling screws. A 500-600 RPM fastener driver should be used for self-tapping screws. Discard worn sockets, these can cause the fastener to wobble during installation.



NOTE: Always remove metal filings from surface of panels at the end of each work period. Rusting filings can destroy the paint finish and void any warranty.

MASTIC SEALANT

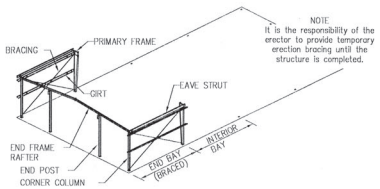
Proper mastic application is critical to the weather tightness of a building. Mastic should not be stretched when installed. Apply only to clean, dry surfaces. Keep only enough mastic on the roof that can be installed in a day. During warm weather, store mastic in a cool dry place. During cold weather (below 60°) mastic must be kept warm (60°-90°) until application. After mastic has been applied, keep protective paper in place until panel is ready to be installed.

IMPORTANT NOTE:

All details, recommendations and suggestions contained in the ERECTION GUIDE portion of this drawings set are for general guidelines only, and not meant to be all-inclusive. Industry accepted installation practices with regard to all areas not specifically discussed in this section should be followed. Only experienced, knowledgeable installers familiar with accepted practices should be used to assure a quality project.

It is emphasized that the Manufacturer is only a manufacturer of metal building components and is not engaged in the installation of its products. Opinions expressed by the Manufacturer about installation practices noted in the ERECTION GUIDE are intended to represent only a guide as to the sequencing and how the components could be assembled to create a building. Both the quality and safety of installation and the ultimate customer satisfaction with the completed building are determined by the experience, expertise, and skills of the installation crews, as well as the equipment available for handling the materials. Actual installation operations, techniques and site conditions are beyond the Manufacturers control.

STEP 1: ERECT FIRST BAY WALL FRAMING



1A: Determine from erection drawings furnished with the building the location of the first braced bay. Framing for this bay will be erected first.

1B: Stand adjacent primary frame column and corner column over the anchor rods. Shim or chip out under the base plate if required to ensure that the base is level, at the correct elevation, and is in full contact with the foundation. Plumb and align the columns and install washers and nuts onto the Anchor Rods.

NOTE: The end frame may be a bearing frame with the rafter supported by end posts, or a rigid frame with the rafter self-supporting, and not attached to the end posts. The procedure shown is for a bearing frame. If the building has a rigid end frame, it is erected the same as interior frames as described in steps 1 and 2.

1C: Attach wall girts to the primary frame column and corner column. Bolt girts to the corner column with two bolts. Bolt girt to primary frame column with one bolt through the column flange and secure bolt with sub-nut (see detail on erection drawings).

1D: Install the eave strut by bolting to the top of the columns. Refer to the erection drawings and attach column flange brace where shown. Flange braces may be required on one or both sides of the columns. If a flange brace connects to a girt in the adjacent bay, that brace will be bolted to the girt after the adjacent bay girts are installed.

NOTE: As wall girts are installed around the building, framing for factory located framed openings and accessory framing to which the girts attach should be installed. Field located accessory framing may be installed at the same time as girts or at a later time.

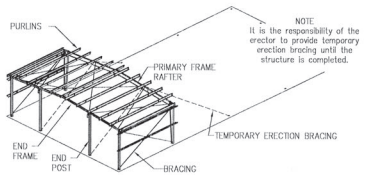
1E: Install wall bracing systems (rods, cables, knee bracing, portal bracing) at this time but do not tighten completely until the bay is plumbed.

1F: Repeat steps 1B thru 1E for wall framing on the opposite side of the building.

1G: Attach clips to the end posts and stand these posts over the Anchor Rods. Follow the procedure as described for corner columns in step 1B.

1H: Bolt required clips and flange braces to the end frame rafter sections and lift into place atop the end posts. Bolt rafter sections to corner column and end post cap plates. Bolt rafter sections together at peak.

STEP 2: ERECT FIRST BAY ROOF FRAMING



CAUTION

Until rafters are bolted in place with purlins and flange braces installed, they are easily damaged by incorrect or careless handling procedures. Use extreme caution when lifting rafters. Two booms should be used to lift any pinched rafter section 80 feet or more in length.

2A: Bolt primary frame rafter together at peak connection (unless rafter length requires lifting in sections). Attach the required clips and flange braces to the rafter before lifting since these items are more easily installed on the ground. Lift rafter into place between sidewall columns and install bolts in rafter to column knee connections.

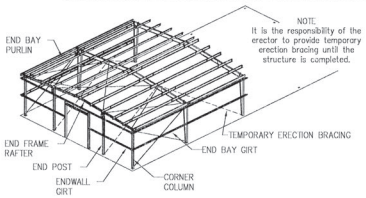
2B: Install end bay purlins from end frame rafter to the first interior frame rafter. The end bay purlins will overlap the interior bay purlins at the frame as described in step 1C. Complete flange brace connection to purlins.

2C: Install roof bracing systems but do not tighten completely until the bay is plumbed.

2D: Plumb and square the first bay. After alignment, tighten wall bracing first and the roof bracing working from eave to peak. Tighten any remaining bolts.

Plumbing and aligning a total structural system begins with the first braced bay and continues through completion. Accurate alignment of the first bay is essential for correct alignment of succeeding bays. The installer is responsible for choosing the best method suited for plumbing and aligning the structural system.

STEP 3: ERECT ENDWALL GIRTS AND FIRST INTERIOR BAY



3A: After end frame is plumb and square, install endwall girts and flange braces for end post if required.

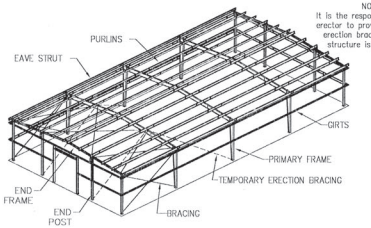
3B: Attach wall girts to the primary frame columns (see step 1C).

3C: Install eave struts (see step 1D).

3D: Attach roof purlins for this bay to the two rafters. Purlins will bolt to the rafter flange in the same manner as girts to column flanges (see step 1C). Connect flange braces to purlins.

3E: Check alignment, plumb and square the two bays just erected. Tighten all bolts and bracing.

STEP 4: ERECT REMAINING STRUCTURAL FRAMING



Starting at the opposite end of the first bay erected, install the remaining interior frames, girts, purlins, eave struts, bracing, end frames and end posts using the procedures described in the preceding steps. Be sure all wall girts, roof purlins and flange braces as shown on the erection drawings are installed. Constant checks should be made to ensure the building is square, plumb and aligned.

All X-Bracing should be checked that it is installed to a taut condition with all slack removed. Do not tighten beyond this state.

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
ANIC COMPANY
P.O. BOX 94915
OKLAHOMA CITY, OK 73143
(405) 636-2013

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

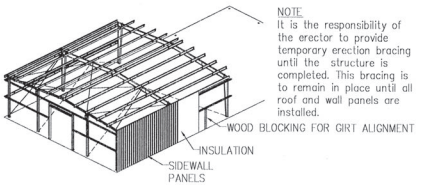
Drawing Status:
☐ Preliminary (Not For Construction)
☐ Not For Construction
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R3 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSITA ENSITA

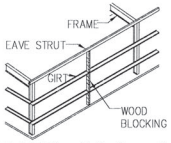
STEP 5: INSTALL SIDEWALL PANELS



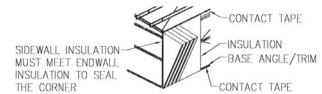
5A: Before installing wall panels, the girts must be aligned to a level position so that there is no visible sag. This should be done directly ahead of panel installation.

Girt leveling may be accomplished by standing a section of gable angle vertically against the outside girt flanges at approximate mid-bay location. When girts are level, attach the girt flanges to the angle with vise grip pliers or temporary screws. Wood blocking cut to fit the spaces may also be used for alignment.

NOTE: Temporary girt blocking is not recommended on concealed fastener panels. The removal of the blocks after panel installation can cause oil canning.

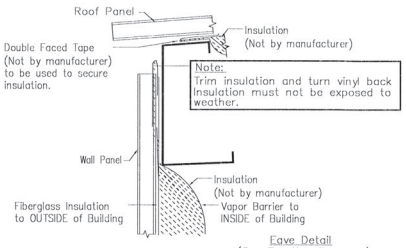


NOTE:
Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.

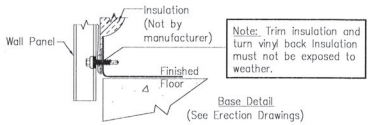


5B: If walls are to be insulated, place a continuous run of contact tape along the eave strut and base member.

NOTE:
At the base, cut off the insulation a minimum of 1/2" above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.



Eave Detail
(See Erection Drawings)



Base Detail
(See Erection Drawings)

Starting at a building corner, attach the first piece of blanket insulation to the contact tape on the eave strut. Pull tight and adhere to tape at the base. It is recommended that insulation not be installed more than 6 feet ahead of panels.

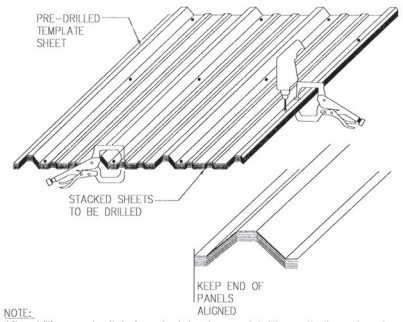
5C: Sidewall panels should be installed so that the panel sidelap is in a direction away from the prevailing wind. (refer to appropriate lap detail included with erection drawings.)

5D: Install remaining sidewall insulation and panels, being careful to maintain correct panel coverage. It is suggested that the foundation be marked in increments of panel width to allow visual checking of panel coverage as installation progresses.

NOTE: Check periodically to ensure that all panels are aligned and plumb.

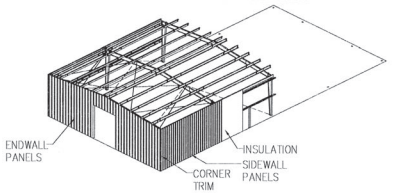
5E: At the finishing corner of a sidewall, the last panel may required additional lap or trimming for installation of corner trim refer to the details in the erection drawings.

Screw Alignment Panel
(Through Fastened Panel Only)



NOTE:
After drilling panels, it is important to clean metal filings off all panel surfaces, including between panels that are not installed that day, to avoid rust stains.

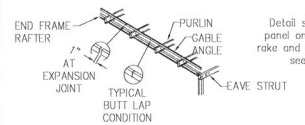
STEP 6: INSTALL ENDWALL PANELS



6A: Install gable angles/supports onto the ends of purlins and eave struts. This angle is to butt-up to each other or is spliced as required except at expansion joints where a one inch gap is maintained between ends of adjacent sections to allow for expansion.

Gable angle splices may occur on or between purlins and the angle must be attached to each purlin and the eave strut.

NOTE: Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.

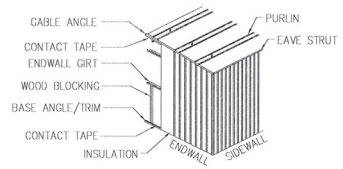


NOTE
Detail shown for ribbed roof panel only. For standing seam rake and gable angle installation, see erection details.

6B: See erection drawings sheeting layouts for panel starting dimensions, panel trim locations, and lap locations.



TRIM DIMENSION IS MEASURED FROM CENTER OF FIRST MAJOR RIB.



6C: Align and level girts on endwall.

6D: If the walls are to be insulated, place a continuous run of contact tape along the gable angle and base member. Starting at the corner of the endwall, attach the first piece of insulation to the contact tape on the gable angle, pull tight and adhere to tape at the base. Cut off excess insulation. It is recommended that insulation not be installed more than 6 feet ahead of panels.

NOTE:
At the base cut off the insulation a minimum of 1/2 inch above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.

6E: Start at the corner, trim panel (if required) and set in place. Refer to corner details in the erection drawings for the panel starting distance from the corner, When the panel is located and plumb, install fasteners.

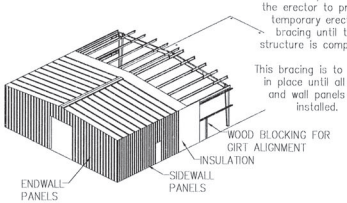
6F: Install remaining endwall insulation and panels, being careful to maintain the correct panel coverage as suggested in step 5D.

6G: Install corner trim.

STEP 7: INSTALL ROOF PANELS

NOTE
It is the responsibility of the erector to provide temporary erection bracing until the structure is completed.

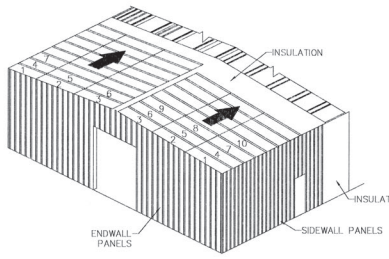
This bracing is to remain in place until all roof and wall panels are installed.



7A: Install eave trim over top of sidewall panels and eave struts with fasteners per erection drawings eave detail.

7B: If the roof is insulated, place a continuous run of contact tape along top of eave struts at both sidewalls. Lay a starter roll of blanket insulation from eave to eave across roof and secure to contact tape. (refer to packing list for width of insulation starter roll). It is recommended that insulation be installed no more than 6 feet ahead of panels.

NOTE: For **PBR** roofs with a ridge panel, it is recommended that both sides of the ridge of a building be sheeted simultaneously. This will keep the insulation covered for the maximum amount of time and the panel ribs can be kept in proper alignment for the ridge panel. This is critical on the "PBR" panels so that the ridge caps can be properly installed. Check for proper coverage as the sheeting progresses. Note panel-sheeting sequence below!



STEP 7: INSTALL ROOF PANELS (Con't)

7C: Install the first run of roof panels across the building from eave to eave, or eave to ridge. To allow proper installation of rake trim, the starting location for the first panel must be as shown in rake details included with the erection drawings. When the first run is properly located and aligned with the correct endlaps and eave overhang, fasten to purlins. Roof panels should be installed so that the sidelap is in a direction away from the prevailing wind. Refer to appropriate lap detail.

7D: Install remaining roof insulation and panels. To avoid accumulative error due to panel coverage gain or loss, properly align each panel before it is fastened. Occasional checks should be made to ensure that correct panel coverage is maintained. Special attention should be given to fastener, mastic and closure requirements. Refer to details with erection drawings.

7E: At finishing end of roof, the last panels may require field modification for installation of rake trim. Refer to rake details. DO NOT BACK LAP THROUGH FASTENED ROOF SHEETS.

NOTE: Roof panel types and installation requirements will vary. Refer to the appropriate details for the specific panel used.

IMPORTANT: Loose fasteners, blind rivets, drill shaving, ETC. must be removed from roof to guard against corrosion.

NEVER STEP ON LIGHT TRANSMITTING PANELS, TRANSLUCENT PANELS, OR UNATTENDED ROOF PANELS.



Panels May Collapse If Not Properly Secured!

Roof panels must be completely attached to the purlins and to panels on either side before they can be a safe walking surface. Light transmitting panels or translucent panels can never be considered as a walking surface.

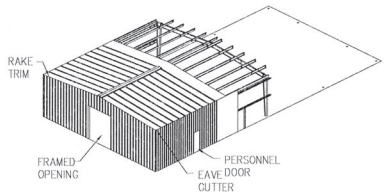
Partially attached or unattached panels should never be walked on!

Do Not:

1. Step on rib at edge of panel.
2. Step near crease in rib at edge of panel.
3. Step within 5 feet of edge on unsecured panel.

A single roof panel must never be used as a work platform. An OSHA approved runway should be used for work platforms! (Consult OSHA Safety and Health Regulations for the Construction Industry). Safety First!

STEP 8: INSTALL TRIM AND ACCESSORIES



8A: Install rake trim and gable closure.

8B: If included with the building, install the eave gutter, corner closures and downspouts.

NOTE:
Remove all loose fasteners, blind rivets, drill shavings, etc... from gutter to guard against corrosion.

8C: Install accessories (doors, windows, louvers, etc...) not previously installed. Refer to the appropriate details for installation instructions.

IMPORTANT: Remove debris from roof and wall surfaces during installation and after. Clean surface of sheeting as required to remove smudges and touch-up any minor/mild scratches with color match touch-up paint.

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 84912
OKLAHOMA CITY, OK 73143
(405) 636-2013

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

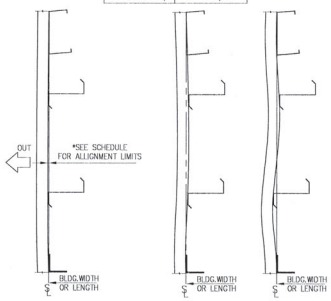
Scale:	NOT TO SCALE
Drawn by:	
Checked by:	
Project Engineer:	
Job Number:	15-B-10248
Sheet Number:	R4 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTTA ENSTTA

SECONDARY STEEL ALIGNMENT FOR ALL VERTICAL IMP PROJECTS

SUPPORT ALIGNMENT LIMITS	
SUPPORT SPAN	MAX DEVIATION LIMIT
5'-0" or Less	0" to 1/16"
5'-0" to 10'-0"	0" to 1/8"
10'-0" and up	0" to 1/4"



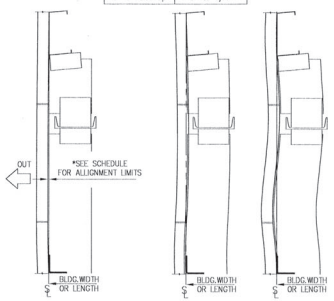
CORRECT ALIGNMENT

MIS-ALIGNMENT (Unacceptable, Avoid These Conditions)

R5-1

SECONDARY STEEL ALIGNMENT FOR ALL HORIZONTAL IMP PROJECTS

SUPPORT ALIGNMENT LIMITS	
SUPPORT SPAN	MAX DEVIATION LIMIT
4'-0" or Less	0" to 1/16"
4'-0" to 8'-0"	0" to 1/8"
8'-0" and up	0" to 1/4"



CORRECT ALIGNMENT

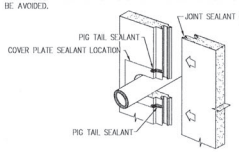
MIS-ALIGNMENT (Unacceptable, Avoid These Conditions)

R5-2

PENETRATION FLASHING THROUGH IMP WALLS

WEATHER SEAL – IF THE PENETRATION IS THROUGH AN EXTERIOR WALL WITH VERTICAL WALL PANEL JOINTS, IT IS BEST TO AVOID LOCATING THE PENETRATION WHERE IT WILL INTERSECT A WALL PANEL JOINT AND BE SUBJECT TO WATER DRAINING FROM THE PANEL JOINT INTO THE PENETRATION CAVITY.

SHOWN BELOW ARE WEATHER SEAL DETAILS WHEN INTERSECTING A PANEL JOINT CANNOT BE AVOIDED.

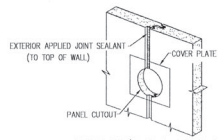


WEATHER & VAPOR SEAL (Existing Penetrant, New Wall) (EXTERIOR PANEL)

EXISTING PENETRANT – NEW WALL
IF A NEW WALL IS INSTALLED AROUND AN EXISTING PENETRANT, SEALANT MUST BE APPLIED TO THE EXTERIOR TONGUE & GROOVE OF THE WALL PANEL JOINT TO PREVENT WATER ENTERING THE PANEL JOINT.

SEALANT PIGTAILS MUST ALSO BE APPLIED TO THE INTERFACE WITH THE PERIMETER SEALANT OF THE PENETRATION COVER PLATES.

NEW PENETRANT – EXISTING WALL
IF THE PENETRANT IS INSTALLED THROUGH AN EXISTING WALL, EITHER THE EXISTING WALL MUST HAVE BEEN INSTALLED WITH THE EXTERIOR JOINT SEALANT OR AN EXTERIOR GRADE SEALANT MUST NOW BE APPLIED ALONG THE EXTERIOR FILLET OF THE PANEL JOINT FOR THE FULL HEIGHT OF THE WALL.



WEATHER SEAL (New Penetrant, Existing Wall) (EXTERIOR PANEL)

R5-3

PENETRATION FLASHING THROUGH IMP WALLS (con't)

VAPOR SEALS – DEPENDING UPON THE BUILDING'S VAPOR CONTROL REQUIREMENTS, EITHER THE EXTERIOR OR INTERIOR SIDE OF THE WALL PANEL JOINTS MAY HAVE JOINT SEALANT TO FUNCTION AS THE VAPOR BARRIER.

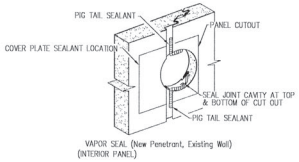
EXISTING PENETRANT – NEW WALL
ON AN EXTERIOR WALL WITH THE VAPOR BARRIER ON THE EXTERIOR SIDE OF THE WALL, THE WEATHER SEAL DESCRIBED ABOVE ALSO FUNCTIONS AS THE VAPOR SEAL.

FOR INTERIOR WALLS AND FOR EXTERIOR WALLS WITH VAPOR BARRIER ON THE INTERIOR SIDE OF THE WALL, INSTALL THE PIGTAIL SEALANTS TO THE INTERFACE WITH THE COVER PLATE SEALANT IN THE SAME MANNER AS DESCRIBED ABOVE FOR THE WEATHER SEAL.

NEW PENETRANT – EXISTING WALL
TO PREVENT WATER VAPOR ENTERING THE PENETRATION CAVITY ON THE VAPOR BARRIER SIDE OF THE WALL, PIGTAIL SEALANTS MUST BE APPLIED ON THE PANEL JOINT TO INTERFACE WITH THE PERIMETER SEALANT OF THE PENETRATION COVER PLATES.

APPLY THE PIGTAIL SEALANT TO THE SEAL OF THE TONGUE-AND-GROOVE JOINT CAVITIES AT THE TOP AND BOTTOM EDGES OF THE PANEL CUT OUT.

EXTEND THE PIGTAIL SEALANT ALONG THE EXTERIOR FILLET OF THE PANEL JOINT TO INTERFACE WITH THE COVER PLATE SEALANT.



VAPOR SEAL (New Penetrant, Existing Wall) (INTERIOR PANEL)

R5-4

INSULATED METAL PANEL JOINT SEALANTS

JOINT SEALANT REQUIREMENTS – DEPENDING UPON THE PROJECT'S REQUIREMENTS, SEALANTS MAY BE REQUIRED IN THE PANEL JOINTS ON EITHER OR BOTH INTERIOR AND EXTERIOR SIDE OF THE WALL. ON SOME PROJECTS, DIFFERENT WALL AREAS MAY HAVE DIFFERENT SEALANT REQUIREMENTS.

THE PANEL MAY BE DELIVERED WITH THE SEALANT FACTORY APPLIED, OR THE SEALANT MAY REQUIRE FIELD INSTALLATION.

IMPORTANT: REFER TO THE INSTALLATION DRAWINGS OR PROJECT SPECIFICATIONS FOR THE SPECIFIED SEALANT AND LOCATIONS.

FIELD INSTALLATION OF SEALANT – APPLY THE PANEL JOINT SEALANT INTO THE SPECIFIED INTERIOR AND OR EXTERIOR METAL GROOVE ON THE PANEL'S FEMALE EDGE. THE SEALANT MUST BE APPLIED CONTINUOUSLY AND AS CLOSE AS POSSIBLE TO THE BOTTOM OF THE GROOVE.

THE SUGGESTED SEALANT BEAD SIZE IS $\frac{3}{8}$" TO $\frac{1}{2}$". ADJUST THE SEALANT BEAD SIZE TO ENSURE THERE IS COMPLETE AND CONTINUOUS CONTACT OF THE SEALANT WITH THE TONGUE OF THE ADJACENT PANEL AFTER THE JOINT IS ASSEMBLED, BUT NOT SO MUCH THAT SEALANT IS EXTRUDED ONTO THE PANEL FACE.

SEALANT PIGTAILS – IT IS CRITICAL TO ENSURE CONTINUITY OF THE SEALANTS AT THE INTERSECTIONS BETWEEN THE PANEL JOINTS AND THE PERIMETER FLASHING ASSEMBLIES.

AFTER EACH PANEL IS INSTALLED, APPLY SEALANT PIGTAILS AROUND THE PANEL'S INTERIOR EDGE TO PROVIDE A SEALANT BRIDGE BETWEEN THE PANELS JOINT SEALANT AND THE INTERIOR PERIMETER SEALANTS.

AT THE PANEL'S EXTERIOR FACE, DETERMINE WHERE THE EXTERIOR PERIMETER SEALANTS WILL BE LOCATED. APPLY SEALANT PIGTAILS ALONG THE PANEL EDGE TO PROVIDE A SEALANT BRIDGE BETWEEN THE PANEL'S JOINT SEALANT AND EXTERIOR PERIMETER SEALANTS.

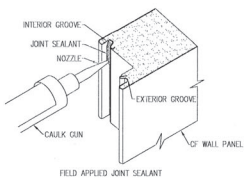
JOINT ASSEMBLY – SLIDE THE PANEL JOINT TOGETHER IN A SMOOTH MOTION TO HELP ENSURE THE UNIFORM DISPERSION OF THE SEALANT WITHIN THE JOINT CAVITY.

DO NOT ASSEMBLE THE PANEL JOINT IN A MANNER THAT CAUSES THE JOINT TO ENGAGE AND THEN DISENGAGE. THIS MAY CAUSE THE SEALANT TO BE DRAWN OUT OF THE CAVITY, LEAVING THE JOINT UNSEALED.

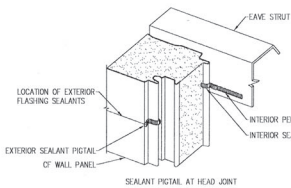
CAUTION: IF THE JOINT IS ASSEMBLED AND THEN DISASSEMBLED THE SEALANT MUST BE CHECKED AND ANY DISPLACED SEALANT MUST BE REPLACED.

REFERENCE R5-6 FOR INSTALLATION ILLUSTRATIONS

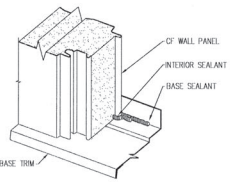
R5-5



FIELD APPLIED JOINT SEALANT

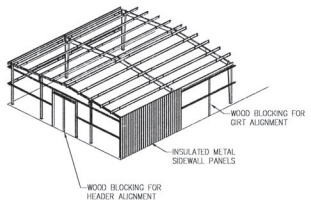


SEALANT PIGTAIL AT HEAD JOINT



SEALANT PIGTAIL AT BASE

R5-6



Note: Before installing insulated metal wall panels, the girts must be aligned to a level position so that there is no visible sag. This also should be done at the framed opening until over head insulated metal panels have been installed. This should be done directly ahead of panel installation.

Girt leveling may be accomplished by standing a section of gable angle vertically against the outside girt flanges at approximate mid-bay location. When girts are level, attach the girt flanges to the angle with vise grip pliers or temporary screws. Wood blocking cut to fit the spaces may also be used for alignment.

R5-7

THERMALSAFE PANEL NOTES

ThermalSafe panel details are general use/unrated construction details and do not affer ANY fire resistance continuity, even when the wall assembly itself is fire resistance rated. Furthermore, no fire resistance rating of structural members or openings is provided by the manufacturer, even though it may be required on the project. Consult the Engineer of Record for the overall project or your local building official or code to determine if fire resistance continuity or protection for structural members or openings is required.

APPLIED FINISHES

STORAGE–
It is important to properly store the panels such that no moisture becomes trapped between the panels or in the applied finish for extended periods of time. Under certain conditions, extended exposure to moisture during improper storage can cause the coating to soften, peel or stain. Be certain to store the panel bundles off the ground high enough to allow for air flow to circulate beneath the bundle and prevent water, mud or snow from entering. One end of the bundles should be slightly elevated. It is recommended that the plastic wrapping be cut all the way around the bundle near the base intermittently so that air may flow freely around the panels. Tarping of the panels will reduce the possibility of rain or snow from entering the stack of panels. If the panels or the trim pieces get wet or moisture is noted within the packaging, immediately remove the items for separation and to dry. Once dry, panels/trim can be stacked for storage and should be tarped and elevated.

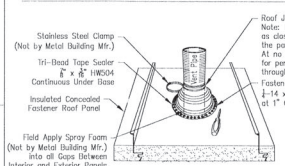
INSTALLATION–
Post textured products are batch sensitive. Panels may show pattern variations between phases, and could vary from production run to production run. Panel elevations should be identified when materials are supplied. Bundles are labeled by coating day and should not be mixed during installation. Reference panel bundle label for PROD. DATE 00/00/00 located at the bottom of the label.

Inspect panels prior to installation. All efforts are made during manufacturing of panels to ensure no applied coatings becomes adhered to the interior of panel sidelap grooves. If applied coatings is present in the panel sidelap grooves, contact panel supplier for instructions. Do not install panels as the applied coating in the grooves can interfere with vapor sealant application as well as prevent the panels from fully engaging.

Field remove applied coatings from roof and wall trims at trim lap locations (min 2"lap required).

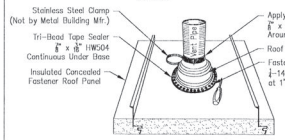
R5-8

ROOF JACK INSTALLATION ON CFR ROOF FOR VENT PIPES 8"ø OR LESS

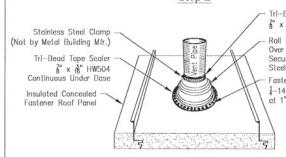


Step 1

Note:
To minimize excessive moisture and condensation, the erector is to cut the hole through the interior and exterior panels as close as possible to the pipe diameter.



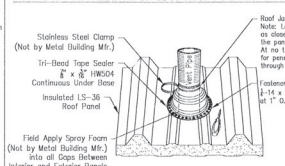
Step 2



Step 3

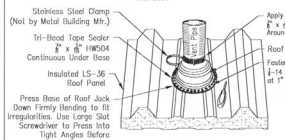
R5-9

ROOF JACK INSTALLATION ON LS-36 ROOF FOR VENT PIPES 8"ø OR LESS

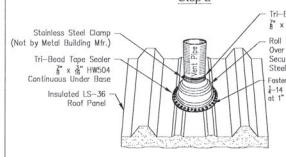


Step 1

Note:
To minimize excessive moisture and condensation, the erector is to cut the hole through the interior and exterior panels as close as possible to the pipe diameter.



Step 2



Step 3

R5-10

Rev.	Date	By	Ck'd	Description

STAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 54940
OKLAHOMA CITY, OK 73143
(405) 528-0203

Customer: STEEL SOLUTIONS INC
Project Name & Location: CITY OF BEACON BEACON, NY

Drawing Status:
- ☐ Preliminary (Not For Construction)
- ☐ For Approval (Not For Construction)
- ☐ For Construction Permit
- ☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R5 of 21

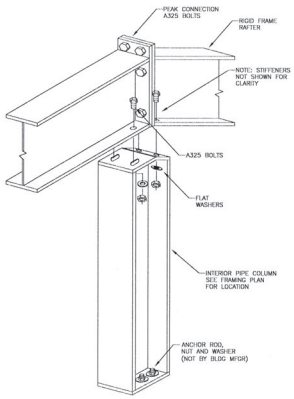
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTIA ENSTIA

Primary Frame Detail
Interior Beam Column At Peak

Page PF03004 | Date May '12 | Rev 01

TAPERED BEAM

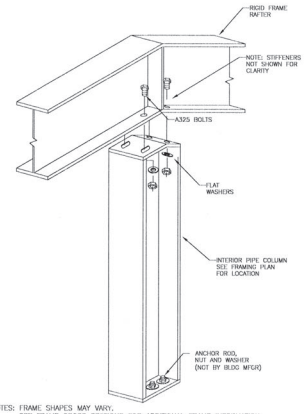


NOTES: FRAME SHAPES MAY VARY;
SEE FRAME CROSS SECTIONS FOR ADDITIONAL FRAME INFORMATION.

Primary Frame Detail
Interior Beam Column At Peak

Page PF03006 | Date May '12 | Rev 01

TAPERED BEAM



NOTES: FRAME SHAPES MAY VARY;
SEE FRAME CROSS SECTIONS FOR ADDITIONAL FRAME INFORMATION.

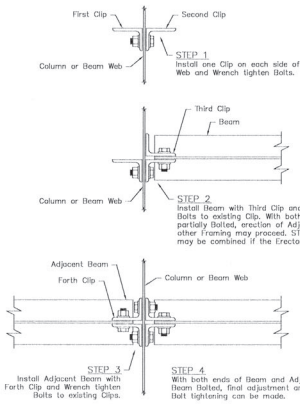
OSHA Erection Procedure for Clip Connections

Page PF10010 | Date May '12 | Rev 00

OSHA Erection Procedure for Clip Connections

OSHA Steel Erection Procedures require Beam Connections that share common Bolts on either side of a Structural Member, that one Beam must remain partially connected while the Adjacent Beam is connected. The erection steps below must be followed to comply with OSHA requirements.

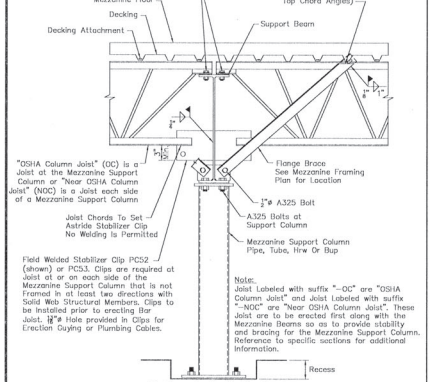
NOTE:
No additional Framing Members, Bar Joist, Bracing or any additional loads are to be applied to Beams until final adjustment and Bolt tightening thru STEP 4.



OSHA Column Joist (OC) & Near OSHA Column Joist (NOC)
General Attachment Details

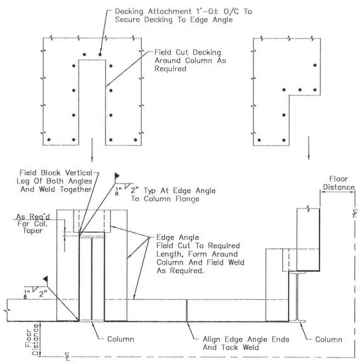
Page PF10011 | Date May '12 | Rev 00

OSHA Column Joist (OC) and Near OSHA Column Joist (NOC) require Bolted ends with Washers at or near Mezzanine Support Columns that are not Framed in at least two directions with Solid Web Structural Members. These Joist are to be erected first along with the Primary Steel so as to provide Bracing of the Mezzanine Support Columns. No Field Welding at Joist Seat is permitted.



Mezzanine Edge Angle
General Details Around Columns

Page PF10012 | Date May '12 | Rev 00



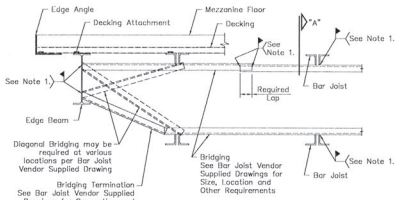
Note:
Edge Angle is to be field formed and welded around Interior Columns, Openings and other conditions similar to that shown.

General Detail At Edge Angle Around Columns
(Conditions May Vary)

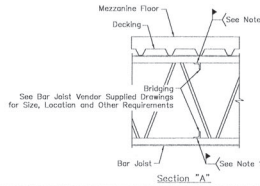
Bar Joist with Welded Bridging
General Details

Page PF10013 | Date May '12 | Rev 00

Note:
1) Reference Bar Joist Vendor Supplied Drawings for applicable SJI Erection and Installation Notes, Bridging Type, Location, Field Welding Requirements, Connections and Termination Details.
2) If any variation of Detail is Noted from Bar Joist Vendor Drawings and those of the Metal Building Supplier, Contact the Building Manufacturers Field Services Staff for direction.
3) Bar Joist are Designed for Referenced Loadings and to comply with CJ-CJ Spacing Noted on Bar Joist Vendor Drawings. Joist are not Designed to Standard SJI Designations unless Explicitly Noted.



Section At Edge Beam

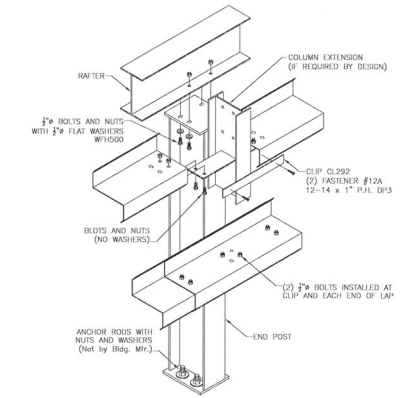


Section "A"

Multi-Span End Post
Bypass with Girt to Welded Clip

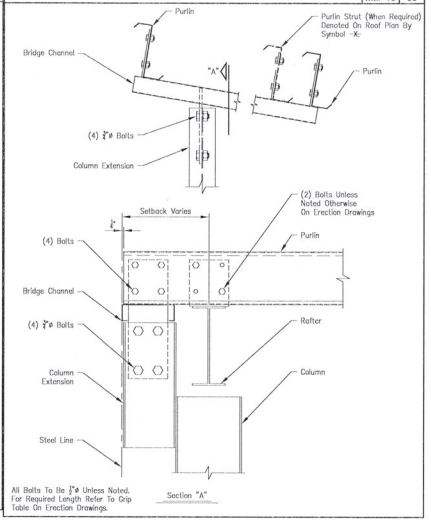
Page EF08120 | Date Dec '12 | Rev 02

NOTES:
- Washers are to be located as shown. The washers are used to cover slotted holes.
- Use 1/2"ø Bolts unless noted otherwise.
- Frame shapes may vary.
- See erection drawing for elevations and marks.



Rigid Frame Endwall - Non-Load Bearing Column
Outside Column Extension to Bridge Channel - Between Purlins - Bypass

Page EF08330 | Date Mar '15 | Rev 00



No.	Description	Date	By	Ck'd

STAR BUILDING SYSTEMS®
P.O. BOX 6989
OKLAHOMA CITY, OK 73143
(405) 478-4213

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Construction Permit
☐ For Approval (Not For Construction)
☒ For Erector Installation

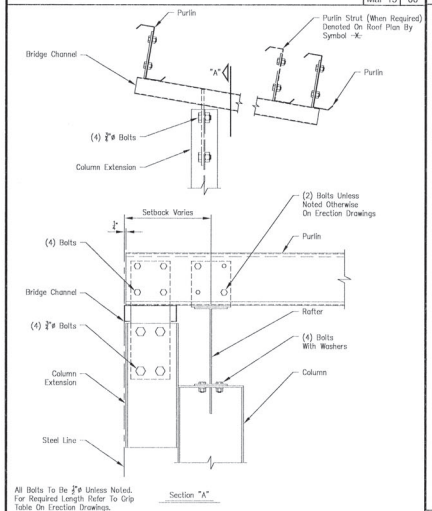
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R6 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTTA ENSTTA

Rigid Frame Endwall - Load Bearing Column
Outside Column Extension to Bridge Channel - Between Purlins - Bypass

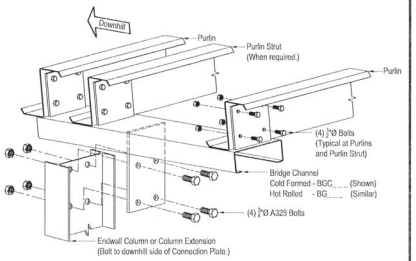
Page: EF08360 | Date: Mar '15 | Rev: 00



Endwall Column attachment
located between Purlins at Slope

Girt Id: EF09102 | Date: Dec '12 | Rev: 01

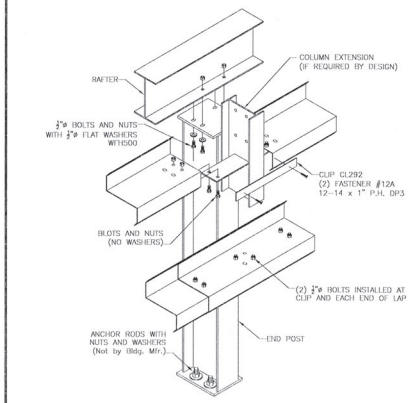
Notes:
1.) See AC00916 / AC00920 for Jamb/Support Column attachment when located at same Purlin space (or adjacent Purlin space) as Endwall Column.
2.) Bridge Channel may span multiple Purlin spaces when required.
3.) Wind Edge Strip Purlins, when required, do not attach to Bridge Channel.
4.) Purlins and Purlin Strut extends past Bridge Channel flange when "Optional" Overhang or Facade is required at endwall.



Bearing Frame Endwall
Bypass with Girt to Welded Clip - End Post not at Peak

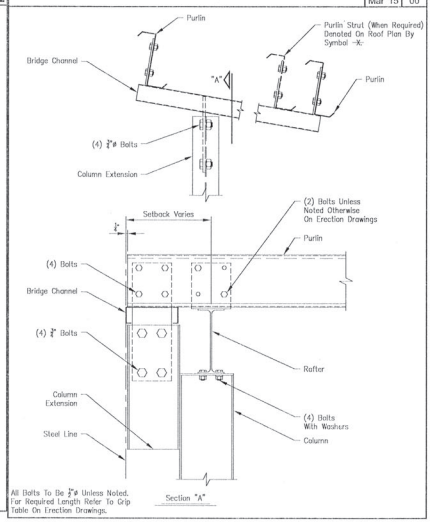
Page: EF07101 | Date: Dec '12 | Rev: 02

NOTES:
- Washers are to be located as shown. The washers are used to cover slotted holes.
- Use 1/2"ø bolts unless noted otherwise.
- Frame shapes may vary.
- See erection drawing for elevations and marks.



Bearing Frame Endwall - Outside Column Extension to Bridge Channel
Between Purlins - Bypass

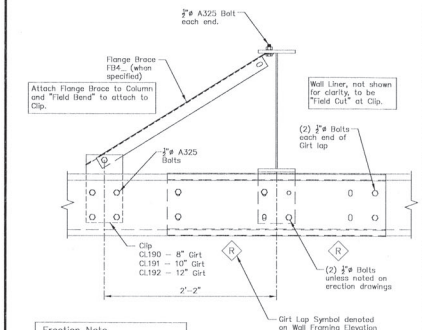
Page: EF07312 | Date: Mar '15 | Rev: 00



By-Pass Girt to Column
"Optional" Liner Connection - Flange Brace FB4_

Page: CF01125 | Date: Jan '14 | Rev: 01

Erection Note
Lap and attachment of Girt varies refer to "Elevation Plan" and Lap Detail for requirements.

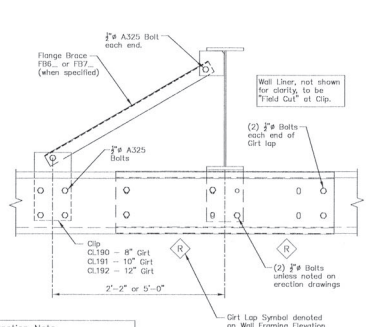


Erection Note
Flange Braces may be required one or both sides of Column. For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section". For requirements, and locations at Bearing Frame Endwall refer to "Elevation Plan".

By-Pass Girt to Column
"Optional" Liner Connection - Flange Brace FB6_ or FB7_

Page: CF01128 | Date: Jan '14 | Rev: 01

Erection Note
Lap and attachment of Girt varies refer to "Elevation Plan", and Lap Detail for requirements.

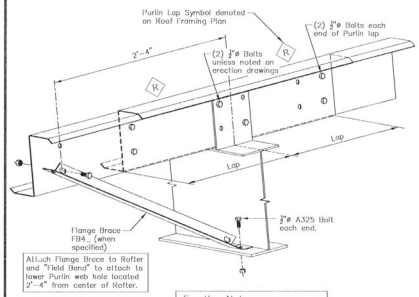


Erection Note
Flange Braces may be required one or both sides of Column. For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section". For requirements, and locations at Bearing Frame Endwall refer to "Elevation Plan".

Purlin to Rafter
Standard Connection - Flange Brace FB4_

Page: CF02036 | Date: Dec '10 | Rev: 00

Erection Note
Lap and attachment of Purlin varies refer to Roof Plan and Lap Detail for requirements.

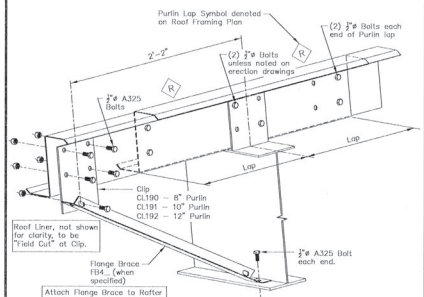


Erection Note
Flange Braces may be required one or both sides of Rafter. For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section". For requirements, and locations at Bearing Frame Endwall refer to "Roof Plan".

Purlin to Rafter
"Optional" Liner Connection - Flange Brace FB4_

Page: CF02037 | Date: Dec '10 | Rev: 00

Erection Note
Lap and attachment of Purlin varies refer to Roof Plan and Lap Detail for requirements.



Erection Note
Flange Braces may be required one or both sides of Rafter. For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section". For requirements, and locations at Bearing Frame Endwall refer to "Roof Plan".

Revision	Date	Description	By	Ck'd

STAR BUILDING SYSTEMS® AN NCI COMPANY
P.O. BOX 94913 OKLAHOMA CITY, OK 73143 (405) 936-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Construction Permit
☐ For Erection Plans (Not For Construction)
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R7 of 21

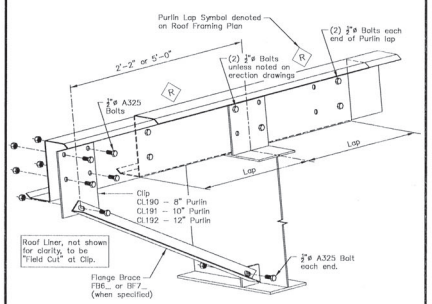
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTIA ENSTIA

Purlin to Rafter
"Optional" Liner Connection - Flange Brace FB6_ or FB7_

Page CF02040 | Date Dec '10 | Rev 00

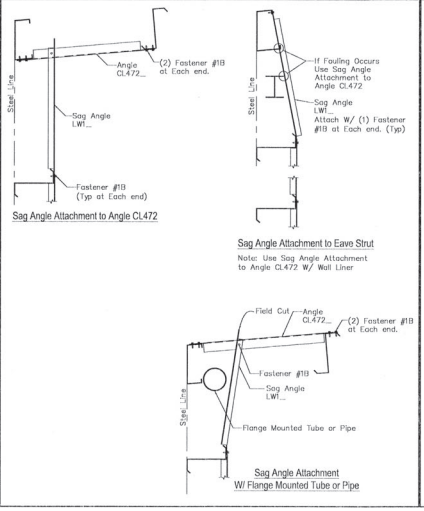
Erection Note
Lap and attachment of Purlin varies refer to Roof Plan and Lap Detail for requirements.



Erection Note
Flange Braces may be required one or both sides of Rafter.
For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section".
For requirements, and locations at Bearing Frame Endwall refer to "Roof Plan".

Sag Angle Attachment at Sidewall

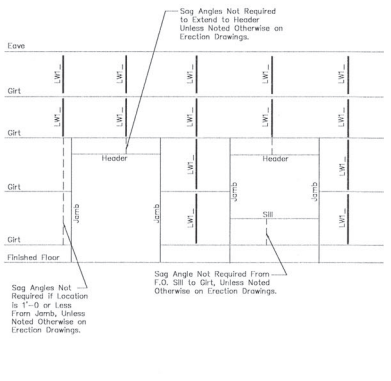
Page CF03042 | Date Mar '15 | Rev 02



Sag Angles at Sidewall Framed Opening
(3 or 4 Sided Framed Opening with Jambs to Floor)

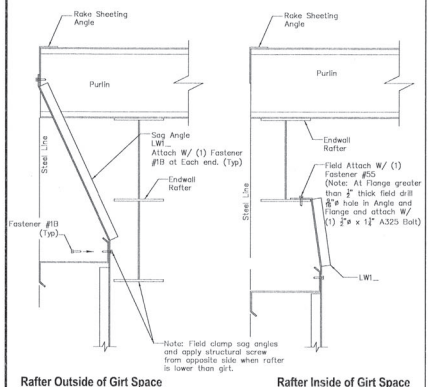
Page CF03045 | Date Dec '10 | Rev 01

Note: See Erection Drawings for Mark Number Locations and Spacing.



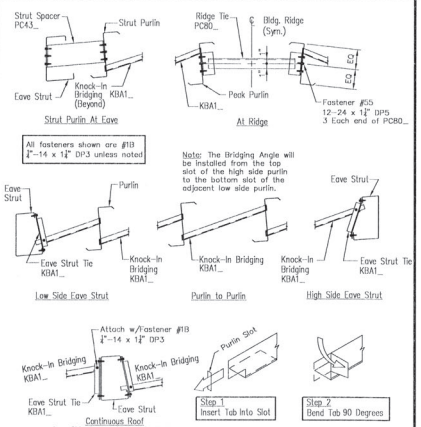
Sag Angle Attachment at Endwall Rake

Page CF03048 | Date Mar '15 | Rev 02



Knock-In Bridging Installation
Less Than 3:12 Single Row

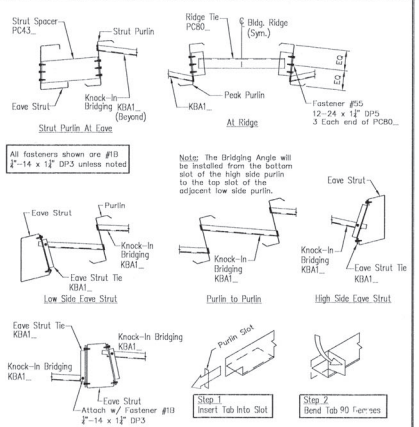
Page KB01001 | Date May '12 | Rev 02



Note: The bridging must be inserted into the pre-punched slot in the Purlin as shown in Step 1 and the tab bent side ways for proper installation Step 2. The process must be complete for the bridging to function as designed.

Knock-In Bridging Installation
3:12 to 4½:12 Single Row

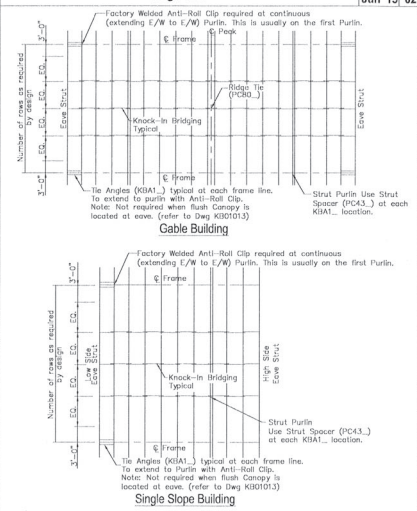
Page KB01002 | Date May '12 | Rev 02



Note: The bridging must be inserted into the pre-punched slot in the Purlin as shown in Step 1 and the tab bent side ways for proper installation Step 2. The process must be complete for the bridging to function as designed.

Knock-In Bridging Roof Layout
Single Row

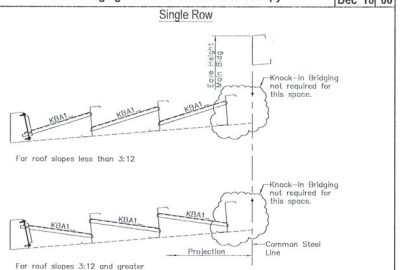
Page KB01006 | Date Jun '15 | Rev 02



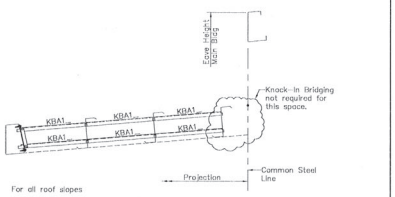
Knock-In Bridging Attachment
Knock-In Bridging Below Eave Lean-To or Canopy

Page KB01008 | Date Dec '10 | Rev 00

Single Row



Double Row



Rev'd	By	Description	Date	Revision

STAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 9469
OKLAHOMA CITY, OK 73143
(405) 478-4200

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

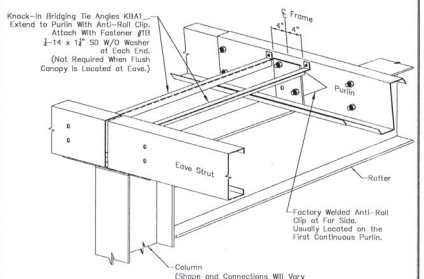
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Drawn by:	
Checked by:	
Project Engineer:	
Job Number:	15-B-10248
Sheet Number:	R8 of 21

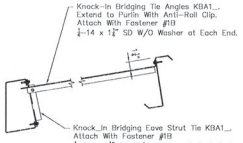
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTIA ENSTIA

Knock-In Bridging Tie Angle

Page KB01013 | Date Jun '15 | Rev 02

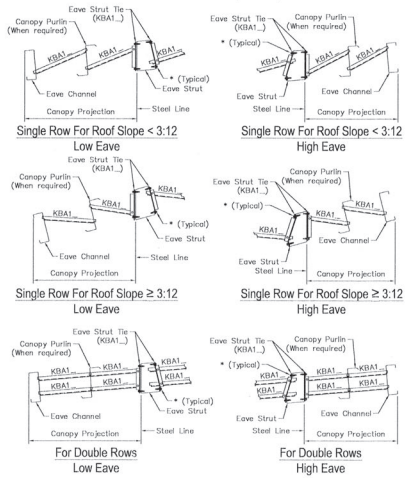




Knock-In Bridging Attachment at Flush Canopy at Eave Line

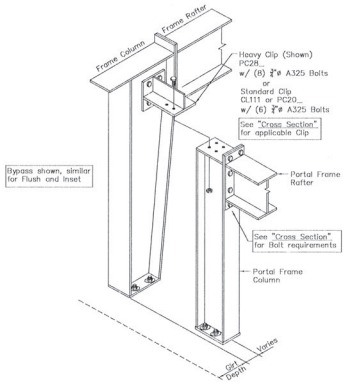
Page KB01022 | Date May '12 | Rev 00

* = Fastener #18 1/4-14 x 1 1/2" DP3



Portal Frame to Floor with Clip - Inside of Girt Line

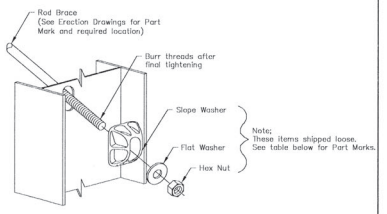
Page PF04013 | Date Apr '11 | Rev 01



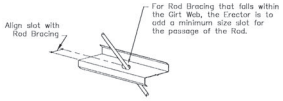
NOTE: FRAME SHAPES MAY VARY.
SEE FRAMING PLAN FOR PORTAL FRAME LOCATIONS

Rod Brace Attachment at Web

Page PF04101 | Date Jan '14 | Rev 02



ERECTION NOTE: DETAIL SHOWN AT COLUMN SIMILAR AT RAFTER.

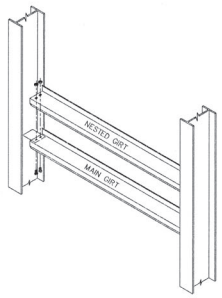


PART MARKS FOR ROD BRACE				
ROD DIAMETER	ROD BRACE	SLOPE WASHER	FLAT WASHER	HEX NUT
5/8"ø	WR08_ _ _ _	WS110	WFH500	HSN500
5/8"ø	WR10_ _ _ _	WS110	WFH625	HSN625
3/4"ø	WR12_ _ _ _	WS120	WFH750	HSN750
7/8"ø	WR14_ _ _ _	WS120	WFH875	HSN875
1"ø	WR16_ _ _ _	WS130	WFH1000	HSN1000

Welded Clip Interior Bay with Nested Zee Girt

Page CF01113 | Date Sep '13 | Rev 00

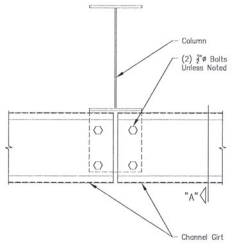


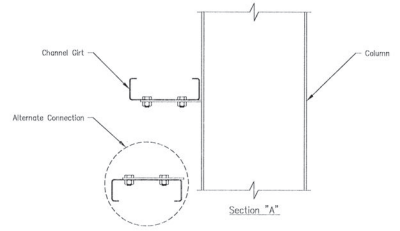


SEE ERECTION DRAWINGS FOR GIRT ELEVATIONS

Cee Girt to Column Standard Connection

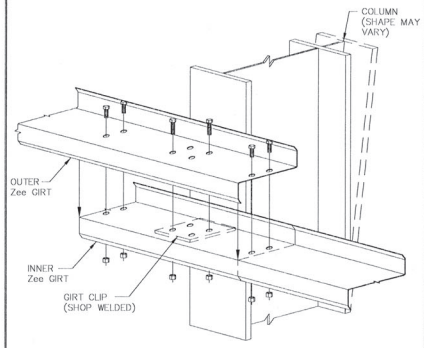
Page CF01115 | Date Jun '15 | Rev 00





WELDED CLIP PRIMARY FRAME DETAIL GIRT ATTACHMENT DETAIL TO GIRT CLIP

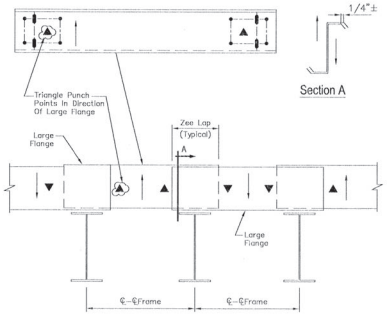
SHT. NO. CF01120 | DATE Feb '11 | REV. 01



ALL BOLTS ARE A325 WITHOUT WASHERS

By-Pass Zee Installation

Page CF01121 | Date Dec '10 | Rev 00



The large leg of the Zee must be alternated from top to bottom in order to nest the member correctly. A triangle has been added to the end of the Zee near the connection holes, that will point to the large leg of the member.

Revision	Date	Description	By	Ck'd

P.O. BOX 6490 OKLAHOMA CITY, OK 73143 (405) 638-2013

STAR BUILDING SYSTEMS® AN NCI COMPANY

Project Name & Location: CITY OF BEACON BEACON, NY

Customer: STEEL SOLUTIONS INC RAVENA, NY

Drawing Status: ☐ Preliminary (Not For Construction) ☐ For Approval (Not For Construction) ☐ For Construction Permit ☒ For Erector Installation

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 15-B-10248

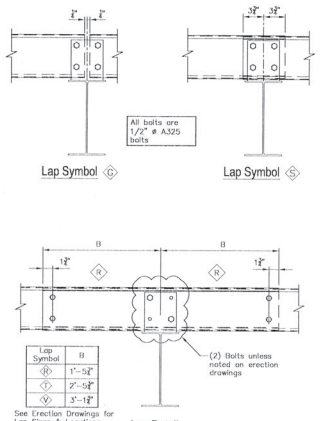
Sheet Number: R9 of 21

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DRSTIA ENSTIA

By-Pass Purlin and Girt Connections

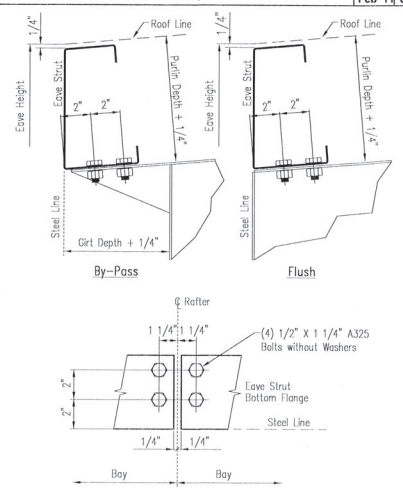
Page CF01122 | Date Oct '14 | Rev 01



By-Pass Purlin / Girt Lap Details

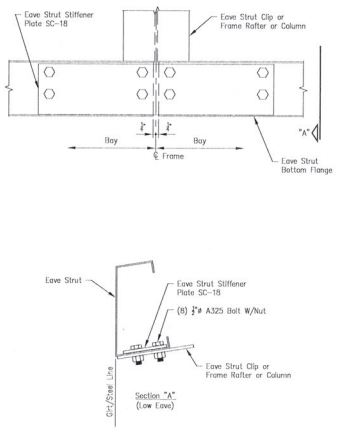
Eave Strut Connection at Main Frame Interior Bay

Page CF02030 | Date Feb '11 | Rev 01



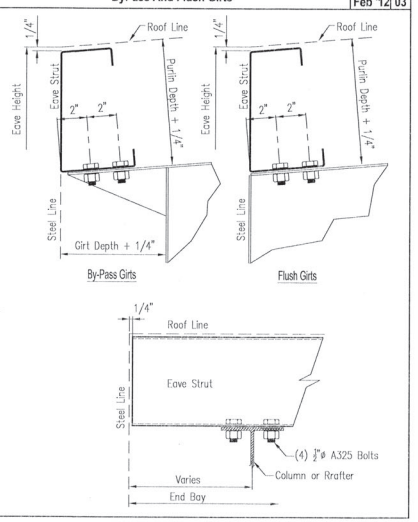
Eave Strut Stiffener Plate - 4 Bolt Connection
Low Eave Interior Bay - Slope Thru 4½:12

Page CF02031 | Date Oct '14 | Rev 01



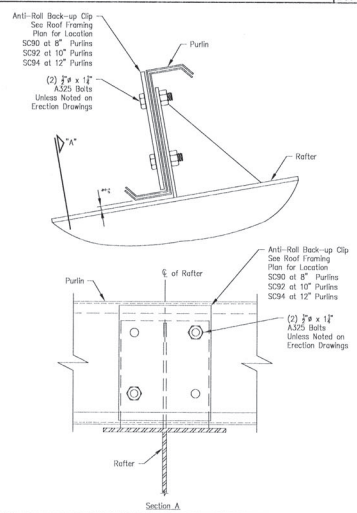
Eave Strut Connection at End Bay
ByPass And Flush Girts

Page CF02033 | Date Feb '12 | Rev 03



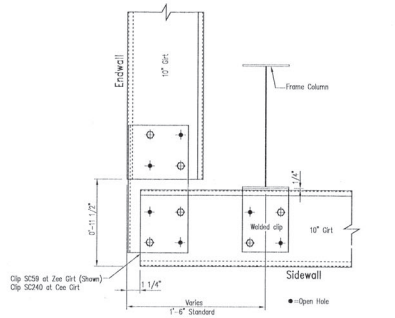
Purlin with Anti-Roll Back-up Clip at Rafter

Page CF02035 | Date Dec '14 | Rev 04



Weld Clip Corner Detail - Variable Frame Set Back
10" Bypass Girt Sidewall - 10" Girt Endwall

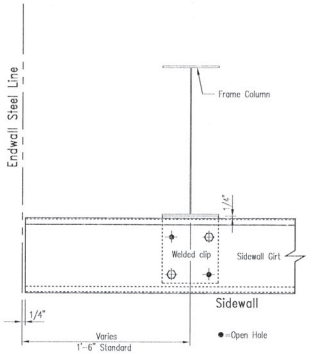
Page EF03005 | Date Sep '12 | Rev 02



All bolts are 1/2" x 1 1/4" A325 without washers unless noted.

Weld Clip Corner Detail
Variable Frame Set Back
Bypass Girt Sidewall – No Girt Endwall

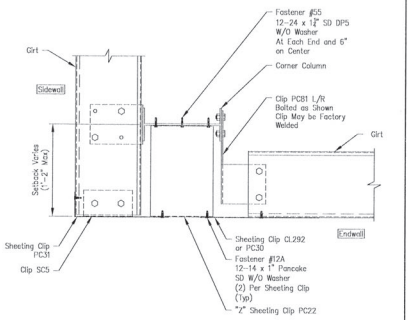
Sht. No. EFD3010 | Date Feb '11 | Rev 01



All bolts are 1/2" x 1 1/4" A325 without washers unless noted.

Sidewall Girts and Endwall Girts
at Bypass Corner Column with Variable Frame Setback
Endwall Girt Attaches to Inner Column Flange

Page EF03515 | Date Jan '16 | Rev 02



Note:
Zee Girt Shown
Cee Girt Similar
All Bolts To Be ¾"ø Unless Noted.
For Required Length Refer To Grip Table On Erection Drawings.

Revision	Date	By	Ck'd
Description			

ASTAR BUILDING SYSTEMS®
P.O. BOX 84693
OKLAHOMA CITY, OK 73143
(405) 634-2012

Customer: STEEL SOLUTIONS INC
RAVENA, NY

Project Name & Location: CITY OF BEACON
BEACON, NY

Drawing Status:
- ☐ Preliminary (Not For Construction)
- ☐ For Approval (Not For Construction)
- ☐ For Construction Permit
- ☒ For Erector Installation

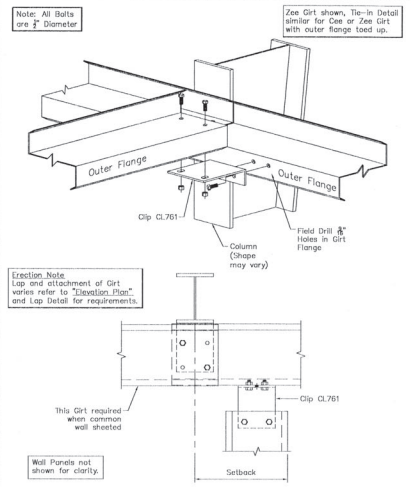
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Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R10 of 21

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DRSTTA ENSTTA

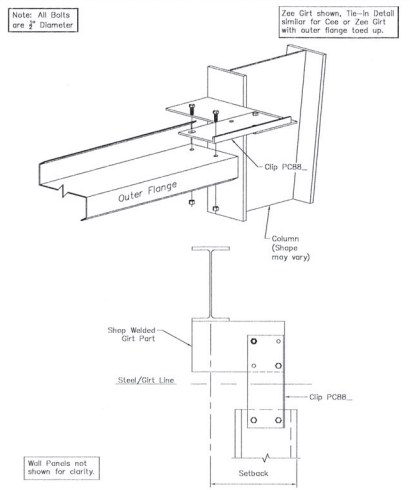
Girt Tie-In - Interior Frame - Common Wall Sheeted Bypass Column - Girt Webs Align

Page EF04001 | Date Jul '11 | Rev 00



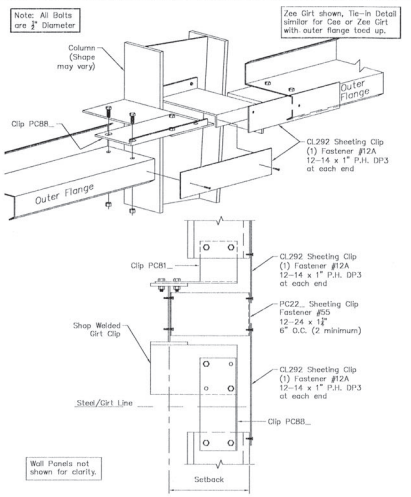
Girt Tie-In - Interior Frame - Common Wall Open Bypass Column - Endwall Girt Bypasses Column Flange

Page EF04020 | Date Jul '11 | Rev 00



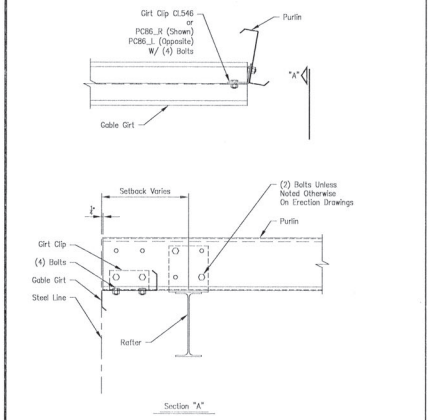
Girt Tie-In - End Frame - Common Wall Open Bypass Column - Endwall Girt Does Not Bypass Column Flange

Page EF04051 | Date Jul '11 | Rev 00



Gable Girt Connection to Purlin

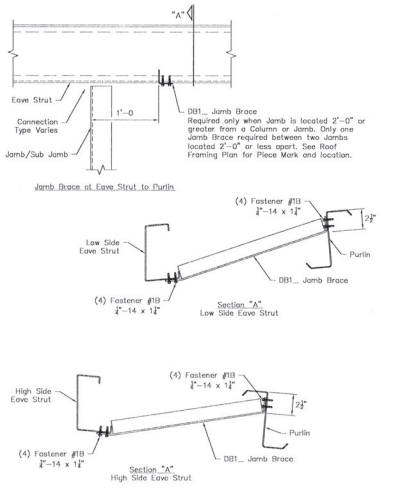
Page EF07510 | Date Jul '15 | Rev 01



All Bolts To Be ¾"ø Unless Noted. For Required Length Refer To Grip Table On Erection Drawings.

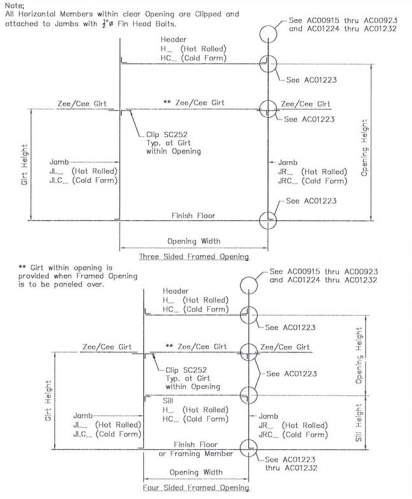
Framed Opening Jamb Brace at Eave Strut to Purlin

Page AC00910 | Date Jul '11 | Rev 00



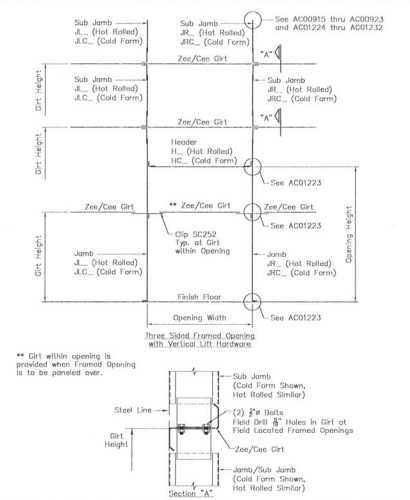
Welded Clips - Framed Opening Connections Cold Form and Hot Rolled Cee - Three and Four Sided Openings

Page AC01220 | Date Nov '11 | Rev 01



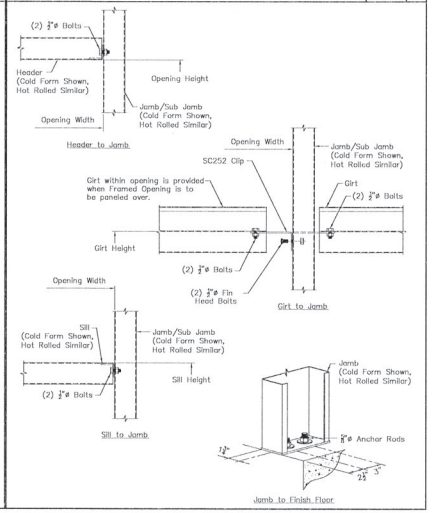
Welded Clips - Framed Opening Connections Cold Form and Hot Rolled Cee - Vertical Lift Hardware

Page AC01221 | Date Nov '11 | Rev 01



Welded Clips - Framed Opening Connections Cold Form and Hot Rolled - Base, Girt, Header, and Sill to Jamb

Page AC01223 | Date Nov '11 | Rev 01



STAR BUILDING SYSTEMS®
P.O. BOX 54912
OKLAHOMA CITY, OK 73154
(405) 525-2000

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval
☐ Final (For Construction)
☐ For Construction Permit
☒ For Erector Installation

Rev'd	By	Description	Date	Revision

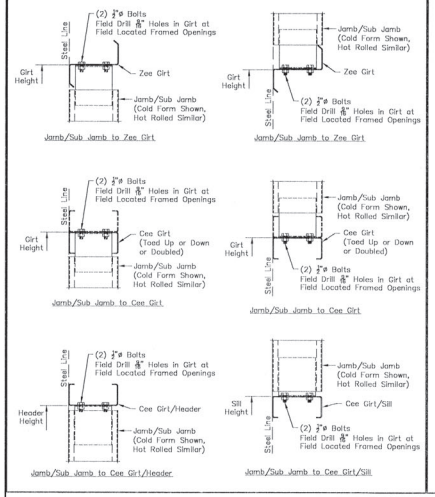
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Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R11 of 21

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DRS11A ENS11A

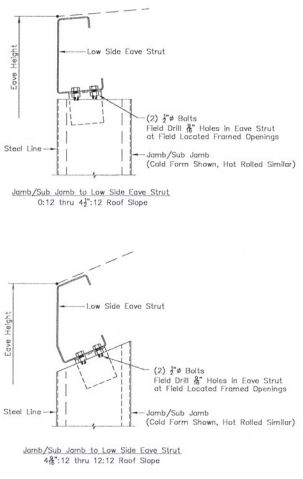
Welded Clips - Framed Opening Connections
Cold Form and Hot Rolled - Jamb/Sub Jamb to Zee/Cee Girt or Header/Sill

Page AC01224 | Date Jul '11 | Rev 00



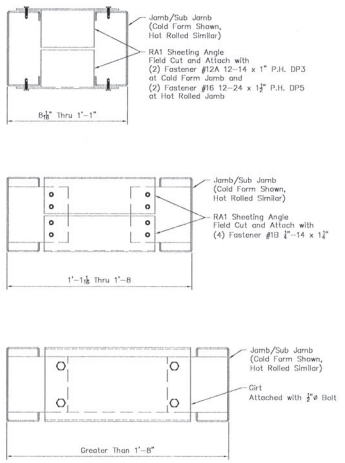
Welded Clips - Framed Opening Connections
Cold Form and Hot Rolled Cee - Jamb/Sub Jamb to Low Side Eave Strut

Page AC01225 | Date Jul '11 | Rev 00



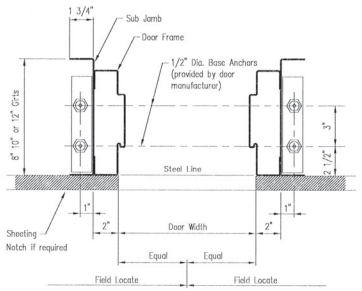
Welded Clips - Framed Opening Connections
Cold Form and Hot Rolled Cee - Framing Between Jambs

Page AC01233 | Date Mar '14 | Rev 01



Pre-Assembled Walk Door Anchor Placement

Page AC05110 | Date Mar '15 | Rev 01

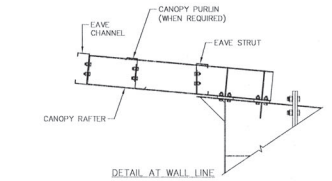


The adequacy of the 1/2" dia. base anchors provided by the door manufacturer is not the responsibility of the Building Manufacturer. The adequacy of these base anchors should be determined by a qualified foundation engineer.

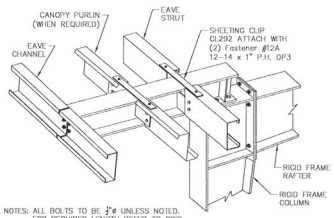
Flush Canopy - High Side Eave - Welded Clip
Interior Column - By-Pass Girt

Page PF05047 | Date Feb '11 | Rev 00

COLUMN DEPTH IS GREATER THAN OR EQUAL TO 1'-3"



DETAIL AT WALL LINE

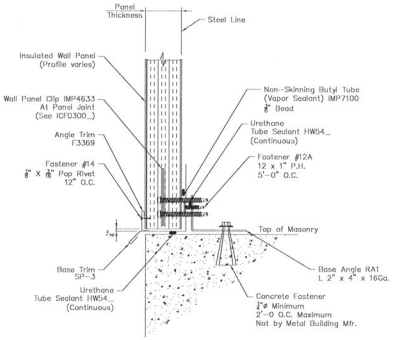


NOTES: ALL BOLTS TO BE ¾"ø UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.

CANOPY RAFTER CONNECTIONS AND STIFFENERS DEPICTED WILL VARY PER DESIGN REQUIREMENTS.

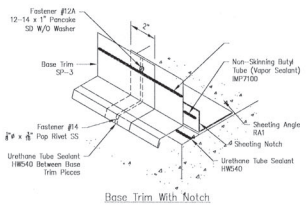
Insulated Concealed Fastener Wall Panel
Flush Base at top of Masonry Construction

Page ICF01001X | Date 1/19/16 | Rev XX



Concealed Fastener Wall Panel
Base Trim Lap

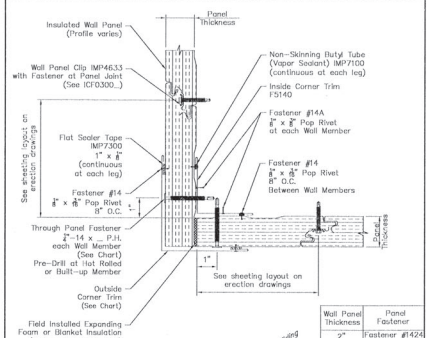
Page ICF01010X | Date Mar '15 | Rev 00



Base Trim With Notch

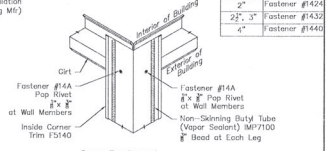
Insulated Concealed Fastener Wall Panel
Outside Corner - Flat Trim

Page ICF02001 | Date Jun '14 | Rev 03



Outside Corner Trim	
Panel Thickness	Piece Mark
2"	F5102
2½"	F5103
3"	F5104
4"	F5101
5"	F5124
6"	F5125
Parametric	F32.32

Wall Panel Thickness	Panel Fastener
2"	Fastener #1424
2½", 3"	Fastener #1432
4"	Fastener #1440



Corner Framing and Sealant at Inside Corner Trim

Revision	Date	Description	By	Ck'd

STAR BUILDING SYSTEMS®
P.O. BOX 4413
OKLAHOMA CITY, OK 73143
(405) 536-2010

Customer: STEEL SOLUTIONS INC
Project Name & Location: CITY OF BEACON
BEACON, NY
RAVENA, NY

Drawing Status:
- ☐ Preliminary (Not For Construction)
- ☐ For Approval (Not For Construction)
- ☐ For Construction Permit
- ☒ For Erector Installation

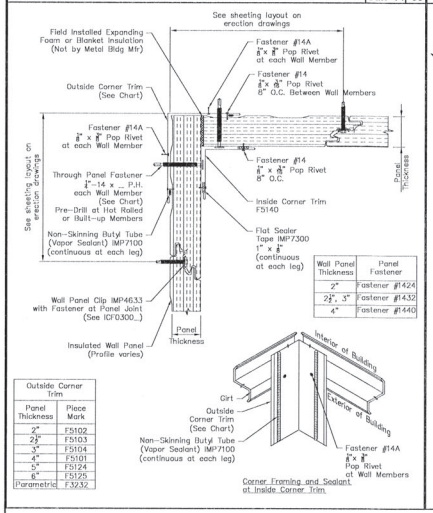
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R12 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRST1A ENST1A

Insulated Concealed Fastener Wall Panel
Inside Corner - Flat Trim

Type ICF02003 | Date Jun '14 | Rev 03

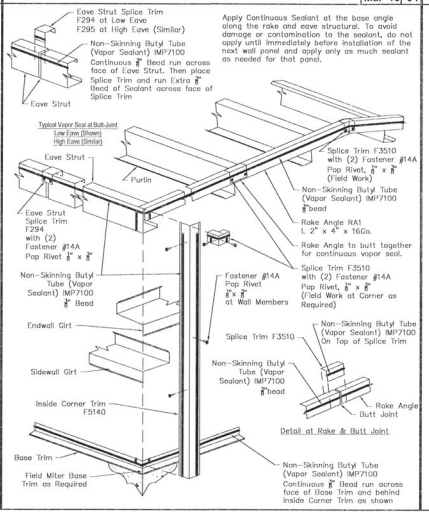


Wall Panel Thickness	Panel Fastener
2"	Fastener #1424
2½", 3"	Fastener #1432
4"	Fastener #1440

Outside Corner Trim	
Panel Thickness	Piece Mark
2"	F5102
2½"	F5103
3"	F5104
4"	F5101
5"	F5124
6"	F5125
Parametric	F3232

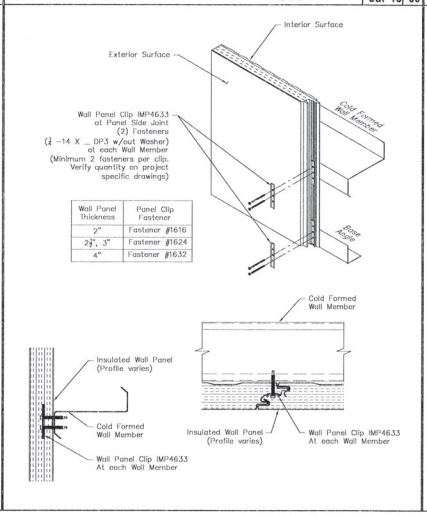
Vertical Concealed Fastener Wall Panel
Wall Vapor Sealant

Type ICF03000 | Date Mar '15 | Rev 04



Insulated Concealed Fastener Wall Panel
Standard Panel Clip Attachment at Cold Form Framing (2) Fasteners

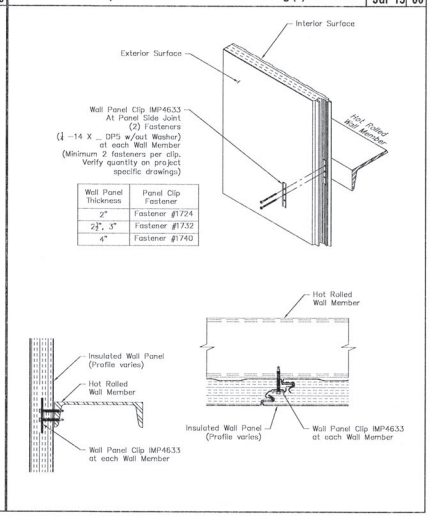
Type ICF03001 | Date Jul '13 | Rev 00



Wall Panel Thickness	Panel Clip Fastener
2"	Fastener #1616
2½", 3"	Fastener #1624
4"	Fastener #1632

Insulated Concealed Fastener Wall Panel
Standard Panel Clip Attachment at Hot Rolled Framing (2) Fasteners

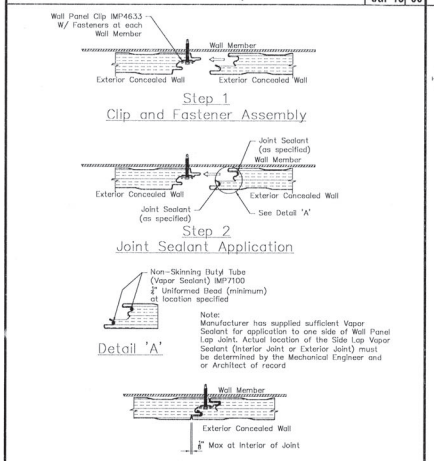
Type ICF03002 | Date Jul '13 | Rev 00



Wall Panel Thickness	Panel Clip Fastener
2"	Fastener #1724
2½", 3"	Fastener #1732
4"	Fastener #1740

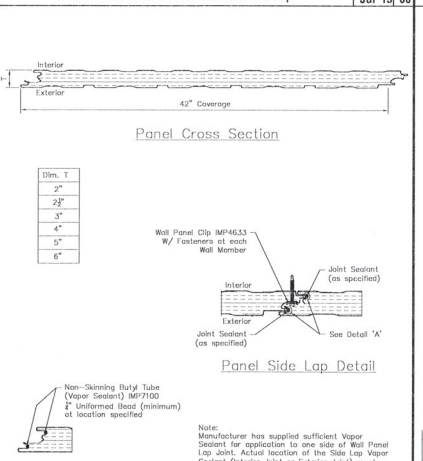
Insulated Concealed Fastener Wall Panel
General Panel Side Lap

Type ICF03005 | Date Jul '13 | Rev 00



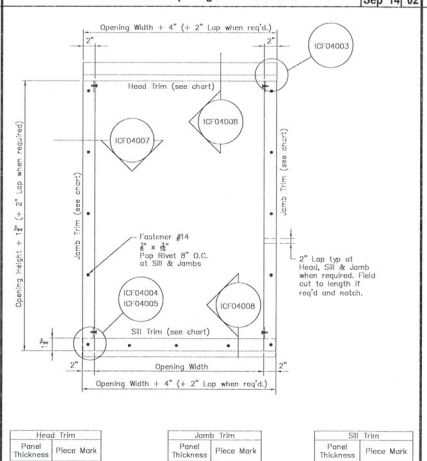
Insulated Concealed Fastener Wall Panel
Fluted Panel Cross Section and Panel Side Lap

Type ICF03008 | Date Jul '13 | Rev 00



Insulated Concealed Fastener Wall Panel
Four Sided Framed Opening Trim Installation

Type ICF04002 | Date Sep '14 | Rev 02



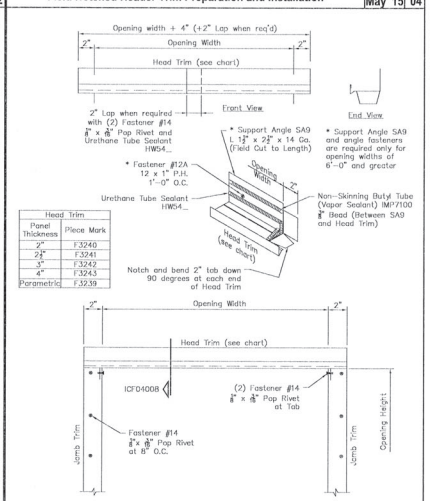
Head Trim	
Panel Thickness	Piece Mark
2"	F3240
2½"	F3241
3"	F3242
4"	F3243
Parametric	F3239

Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2½"	F5403
3"	F5407
4"	F5409
Parametric	F3237

Sill Trim	
Panel Thickness	Piece Mark
2"	F5501
2½"	F5503
3"	F5507
4"	F5509
Parametric	F5511

Insulated Concealed Fastener Wall Panel - Four Sided F.O.
Field Notched Header Trim Preparation and Installation

Type ICF04003 | Date May '15 | Rev 04



Head Trim	
Panel Thickness	Piece Mark
2"	F3240
2½"	F3241
3"	F3242
4"	F3243
Parametric	F3239

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 94910 OKLAHOMA CITY, OK 73143
(405) 536-2010

Customer: STEEL SOLUTIONS INC
Project Name & Location: CITY OF BEACON
RAVENA, NY
BEACON, NY

Drawing Status:
- ☐ Preliminary (Not Approved for Construction)
- ☐ For Approval (Not For Construction)
- ☐ For Construction Permit
- ☒ For Erector Installation

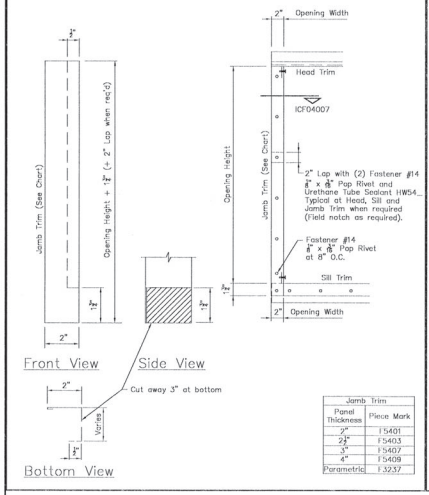
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R13 of 21

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DRS11A ENS11A

Insulated Concealed Fastener Wall Panel - Four Sided F.O. Jamb Trim Preparation and Installation

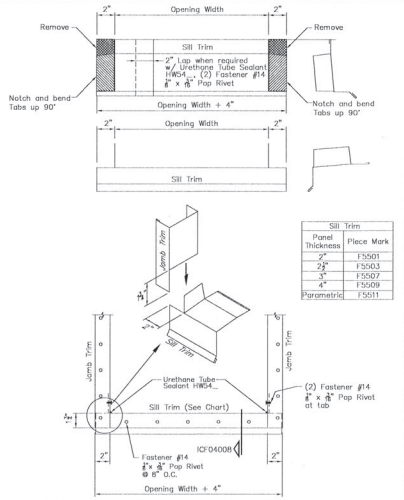
Panel ICF04004 | Date May '15 | Rev 03



Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F3237

Insulated Concealed Fastener Wall Panel - Four Sided F.O. Sill Trim Preparation and Installation

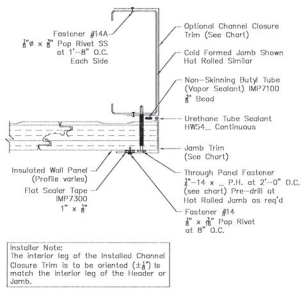
Panel ICF04005 | Date May '15 | Rev 04



Sill Trim	
Panel Thickness	Piece Mark
2"	F5501
2 1/2"	F5503
3"	F5507
4"	F5509
Parametric	F5511

Insulated Concealed Fastener Wall Panel - Four Sided F.O. Section Thru Jamb

Panel ICF04007 | Date Aug '15 | Rev 03



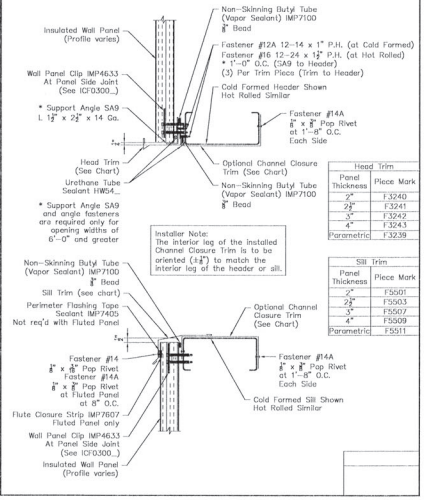
Installer Note:
The interior leg of the Installed Channel Closure Trim is to be oriented (±1/8") to match the interior leg of the Header or Jamb.

Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F3237

Wall Panel Thickness	Through Panel Fastener
2"	Fastener #1424
2 1/2"	Fastener #1432
3"	Fastener #1432
4"	Fastener #1440

Insulated Concealed Fastener Wall Panel - Four Sided F.O. Section thru Header and Sill

Panel ICF04008 | Date May '15 | Rev 03

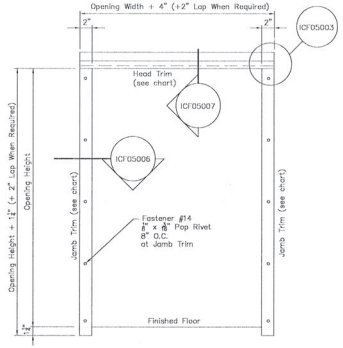


Head Trim	
Panel Thickness	Piece Mark
2"	F3240
2 1/2"	F3241
3"	F3242
4"	F3243
Parametric	F3239

Sill Trim	
Panel Thickness	Piece Mark
2"	F5501
2 1/2"	F5503
3"	F5507
4"	F5509
Parametric	F5511

Insulated Concealed Fastener Wall Panel - Three Sided F.O. Trim Installation

Panel ICF05002 | Date Sep '14 | Rev 02

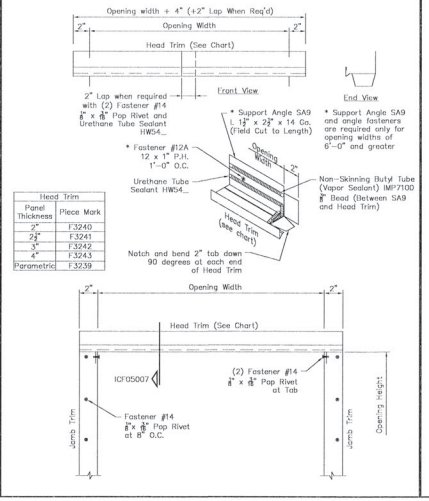


Head Trim	
Panel Thickness	Piece Mark
2"	F3240
2 1/2"	F3241
3"	F3242
4"	F3243
Parametric	F3239

Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F3237

Insulated Concealed Fastener Wall Panel - Three Sided F.O. Field Notched Header Trim Preparation and Installation

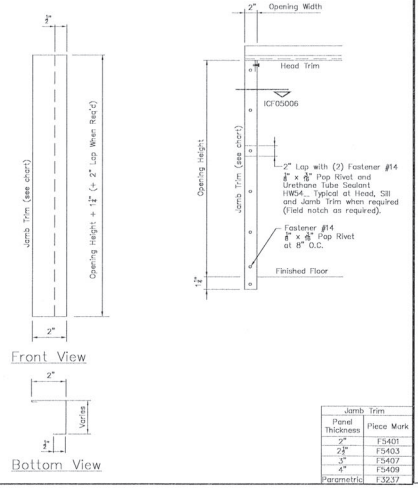
Panel ICF05003 | Date May '15 | Rev 04



Head Trim	
Panel Thickness	Piece Mark
2"	F3240
2 1/2"	F3241
3"	F3242
4"	F3243
Parametric	F3239

Insulated Concealed Fastener Wall Panel - Three Sided F.O. Jamb Trim Preparation and Installation

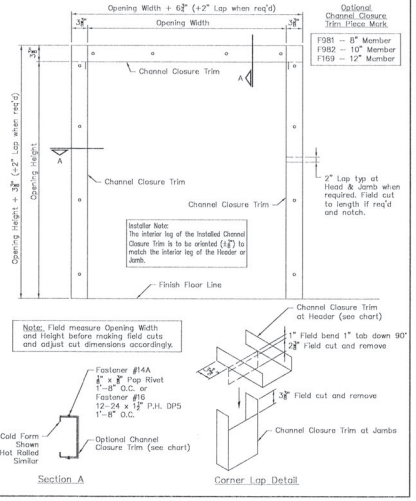
Panel ICF05004 | Date May '15 | Rev 03



Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F3237

Insulated Concealed Fastener Wall Panel - Three Sided F.O. Optional Channel Closure Trim Layout

Panel ICF05005 | Date May '15 | Rev 03



Optional Channel Closure Trim Piece Mark
F981 – 8" Member
F982 – 10" Member
F169 – 12" Member

P.O. BOX 94913 OKLAHOMA CITY, OK 73143 (405) 638-2013

STAR BUILDING SYSTEMS® ARCHITECTURAL

Project Name & Location: CITY OF BEACON BEACON, NY

Customer: STEEL SOLUTIONS INC RAVENA, NY

Drawing Status: ☐ Preliminary (Not for Construction) ☐ For Approval (Not for Construction) ☐ For Construction Permit ☒ For Erector Installation

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 15-B-10248

Sheet Number: R14 of 21

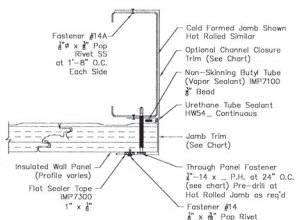
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DRSITA ENSITA

Revision	Date	Description	By	Ck'd

Insulated Concealed Fastener Wall Panel - Three Sided F.O. Section Thru Jamb

Page ICF05006 | Date Aug '15 | Rev 03



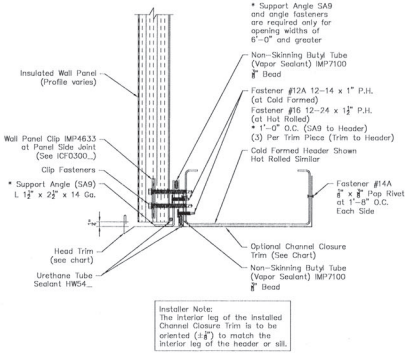
Installer Note:
The interior leg of the installed Channel Closure Trim is to be oriented (±1/8") to match the interior leg of the Header or Jamb.

Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F32.37

Wall Panel Thickness	Through Panel Fastener
2"	Fastener #1424
2 1/2"	Fastener #1432
3"	Fastener #1432
4"	Fastener #1440

Insulated Concealed Fastener Wall - Three Sided Framed Opening Section Thru Header

Page ICF05007 | Date May '15 | Rev 02

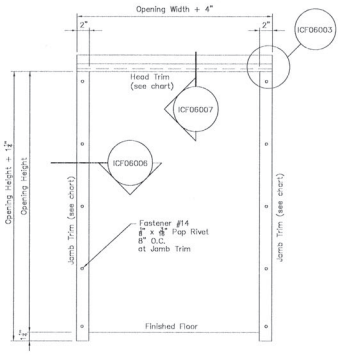


Installer Note:
The interior leg of the installed Channel Closure Trim is to be oriented (±1/8") to match the interior leg of the header or sill.

Head Trim	
Panel Thickness	Piece Mark
2"	F.3240
2 1/2"	F.3241
3"	F.3242
4"	F.3243
Parametric	F.32.39

Insulated Concealed Fastener Wall Panel Pre-Assembled Walk Door Trim Installation

Page ICF06002 | Date Mar '14 | Rev 01

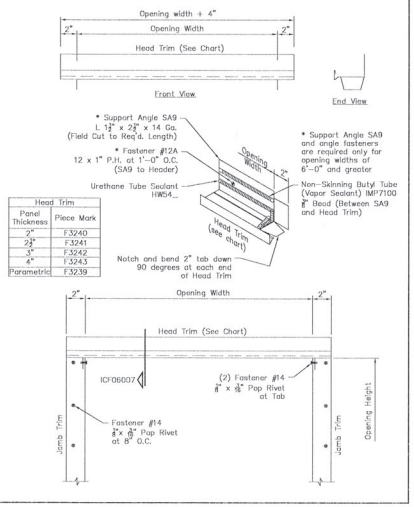


Head Trim	
Panel Thickness	Piece Mark
2"	F.3240
2 1/2"	F.3241
3"	F.3242
4"	F.3243
Parametric	F.32.39

Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F.32.37

Insulated Concealed Fastener Wall Panel - Pre-Assembled Walk Door Header Trim Preparation and Installation

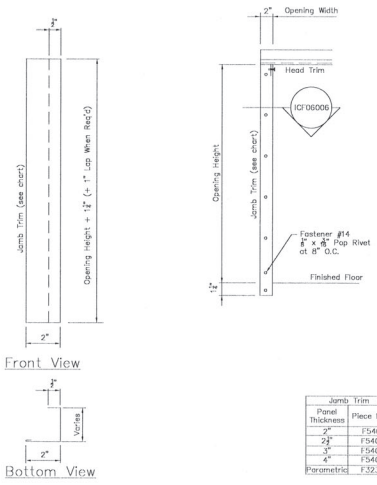
Page ICF06003 | Date May '15 | Rev 03



Head Trim	
Panel Thickness	Piece Mark
2"	F.3240
2 1/2"	F.3241
3"	F.3242
4"	F.3243
Parametric	F.32.39

Insulated Concealed Fastener Wall Panel - Pre-AssembledWalk Door Jamb Trim Preparation and Installation

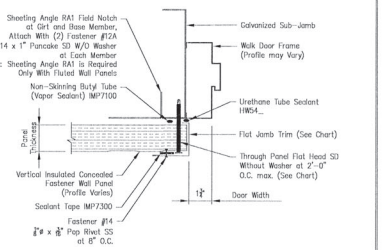
Page ICF06004 | Date Mar '14 | Rev 01



Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
Parametric	F.32.37

Vertical Insulated Concealed Fastener Wall Panel - Pre-Assembled Walk Door Section Thru Jamb

Page ICF06006 | Date May '15 | Rev 02

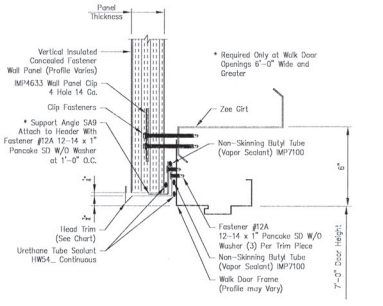


Jamb Trim	
Panel Thickness	Piece Mark
2"	F5401
2 1/2"	F5403
3"	F5407
4"	F5409
5"	F5411
6"	F5413

Wall Panel Thickness	Through Panel Fastener
2"	Fastener #1424
2 1/2"	Fastener #1432
3"	Fastener #1432
4"	Fastener #1440
5"	Fastener #1448
6"	Fastener #1464

Vertical Insulated Concealed Fastener Wall Panel - Pre-Assembled Walk Door Section Thru Head

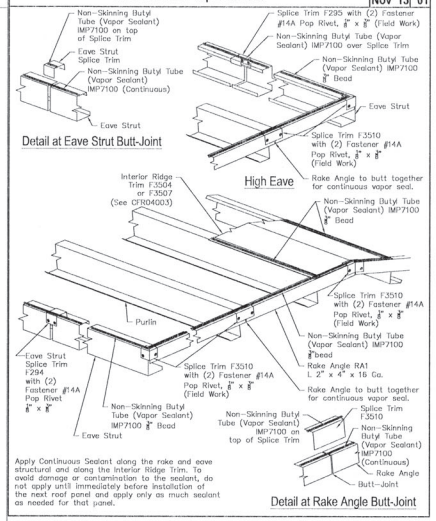
Page ICF06007 | Date May '15 | Rev 02



Panel Thickness	Head Trim
2"	F.3240
2 1/2"	F.3241
3"	F.3242
4"	F.3243
5"	F.3245
6"	F.3246

CFR Roof Eave and Rake Vapor Sealant

Page CFR01001 | Date Nov '13 | Rev 01



Apply Continuous Sealant along the rake and eave structural and along the Interior Ridge Trim. To avoid damage or contamination to the sealant, do not apply until immediately before installation of the next roof panel and apply only as much sealant as needed for that panel.

Rev	Description	Date	By	Ck'd

ASTAR BUILDING SYSTEMS®
P.O. BOX 6610
OKLAHOMA CITY, OK 73143
(405) 528-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

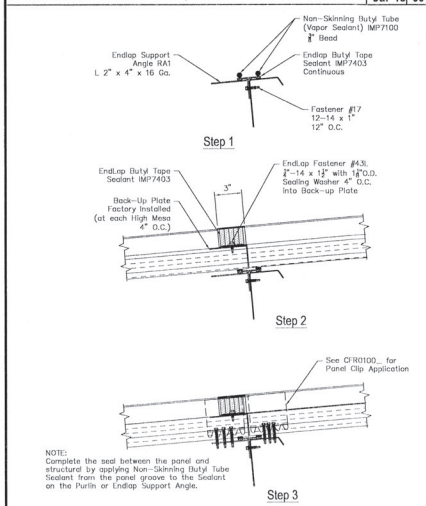
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R15 of 21

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DRSTIA ENSTIA

CFR Roof
End Lap Detail

Page CFR01004 | Date Jul '13 | Rev 00

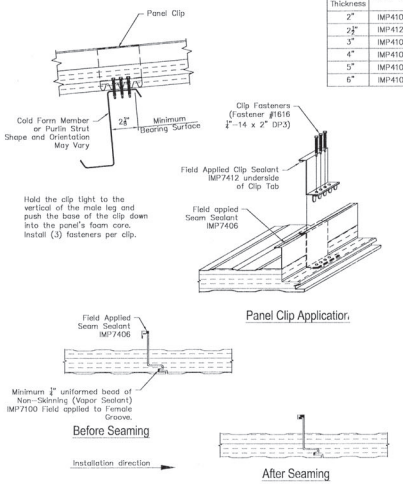


NOTE:
Complete the seal between the panel and structural by applying Non-Skinning Butyl Tube Sealant from the panel groove to the Sealant on the Purlin or Endlap Support Angle.

CFR Roof
Panel Attachment

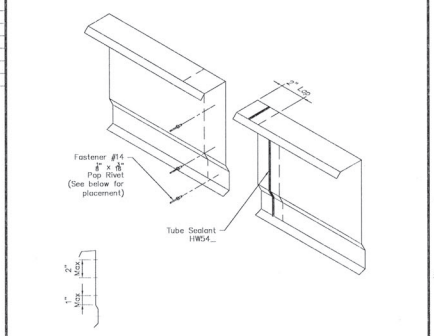
Page CFR01008 | Date Oct '14 | Rev 01

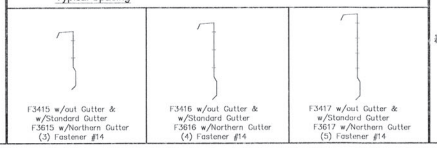
Panel Thickness	Panel Clip
2"	IMP4102
2½"	IMP4125
3"	IMP4103
4"	IMP4104
5"	IMP4105
6"	IMP4106



CFR Roof
Low Eave Trim End Lap

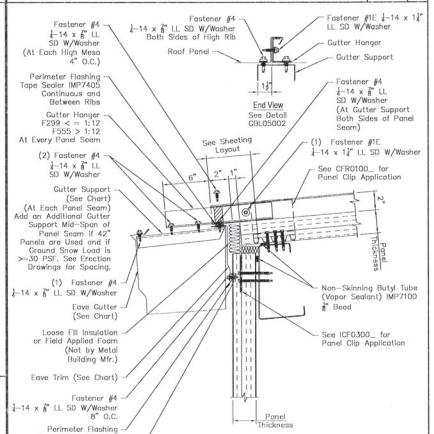
Page CFR02013 | Date Jul '13 | Rev 00





CFR Roof - Insulated Concealed Fastener Wall
Northern Gutter - 36" & 42" Panel

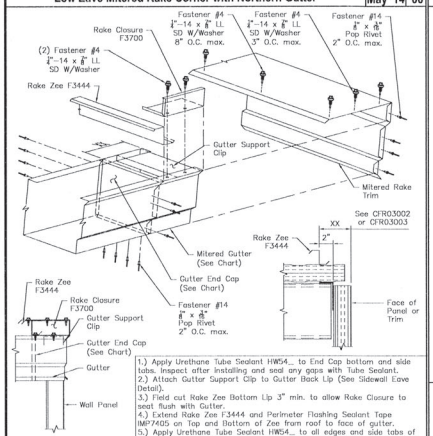
Page CFR02020 | Date Nov '14 | Rev 00



Roof Panel Thickness	Northern Gutter	Eave Trim	Gutter Support <=1:12	Gutter Support >1:12
2", 2½", 3"	F3903	F3615	F700	F551
4", 5"	F4302	F3616	F4342	F551
6"	F4304	F3817	F4344	F551
Parametric	F3915	F3618		

CFR Roof - Insulated Concealed Fastener or LS-36 Wall
Low Eave Mitered Rake Corner with Northern Gutter

Page CFR02024 | Date May '14 | Rev 00

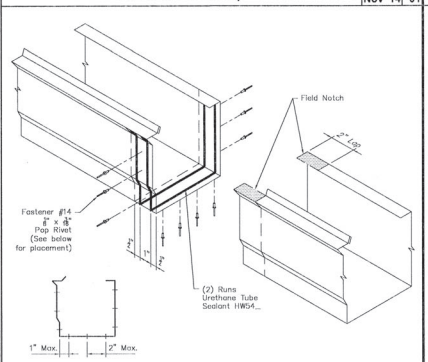


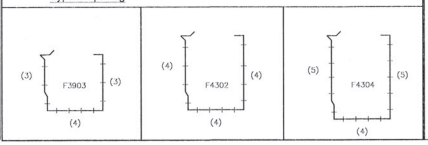
Roof Panel Thickness	Northern Gutter	Gutter End Cap
2" – 3"	F3903	F3933
4", 5"	F4302	F4232
6"	F4304	F4234

1.) Apply Urethane Tube Sealant HW54__ to End Cap bottom and side tabs. Inspect after installing and seal any gaps with Tube Sealant.
2.) Attach Gutter Support Clip to Gutter Back Lip (See Sidewall Eave Detail).
3.) Field cut Rake Zee Bottom Lip 3" min. to allow Rake Closure to seat flush with Gutter.
4.) Extend Rake Zee F3444 and Perimeter Flashing Sealant Tape IMP7405 on Top and Bottom of Zee from roof to face of gutter.
5.) Apply Urethane Tube Sealant HW54__ to all edges and side tabs of Rake Closure. Align and attach Rake Closure to front Lip of Gutter and Gutter Support Clip with Fastener #4. Inspect after installing and seal gaps with Tube Sealant.
6.) Align edges of Eave Gutter and Rake Closure Trim, then attach Rake Trim as shown. Apply Urethane Tube Sealant HW54__ along edges to seal.
7.) See Eave and Rake Construction Details Included with Erection Drawings for attachment of Eave Gutter and Rake Trim to Roof and Walls.

CFR Roof
Northern Gutter End Lap

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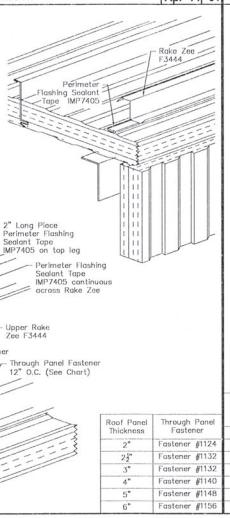
CFR Roof - Insulated Concealed Fastener or LS-36 Wall
Rake Zee Installation

Page CFR03001 | Date Apr '14 | Rev 01

At the rake, remove the temporary fasteners used to hold first and last panels in place. Pop a chalk line from eave to ridge centered over holes left by temporary fasteners. Apply Perimeter Flashing Sealant Tape IMP7405 centered on chalk line.

Install Rake Zee starting at the ridge panel, even with the end, and working toward the Eave. Rake Zee is attached with through-panel fasteners at 12" on center.

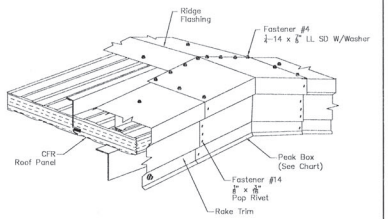
Lower Rake Zee is lapped on top of upper Rake Zee. Rake Zees are lapped 2" with Perimeter Flashing Sealant Tape IMP7405 continuous across Rake Zee. A 2" long piece of Perimeter Flashing Sealant Tape IMP7405 is to be placed on top leg of upper Rake Zee before installing lower Rake Zee.



Roof Panel Thickness	Through Panel Fastener
2"	Fastener #1124
2½"	Fastener #1132
3"	Fastener #1132
4"	Fastener #1140
5"	Fastener #1148
6"	Fastener #1156

CFR Roof
Peak Box Assembly

Page CFR03005 | Date Apr '14 | Rev 02



Refer to CFR03002/CFR03003 and CFR03004 for sealant and fastener requirements at peak box to rake trim and wall panel.
Refer to CFR04002 for sealant and fastener requirements at peak box to ridge trim.

Concealed Fastener Wall Panel Thickness	LS-36 Wall Panel Thickness	CFR Roof Panel Thickness	Peak Box
2" – 3"	1¾" – 2"	2" – 3"	F5813
2" – 3"	1¾" – 2"	4" – 5"	F5815
2" – 3"	1¾" – 2"	6"	F5817
4" – 5"	2¾" – 4"	2" – 3"	F5807
4" – 5"	2¾" – 4"	4" – 5"	F5809
4" – 5"	2¾" – 4"	6"	F5811
Parametric			F5805

Revision	Date	By	Ck'd
Description			

ASTAR BUILDING SYSTEMS®
ANKA COMPANY
P.O. BOX 9495
OKLAHOMA CITY, OK 73143
(405) 636-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

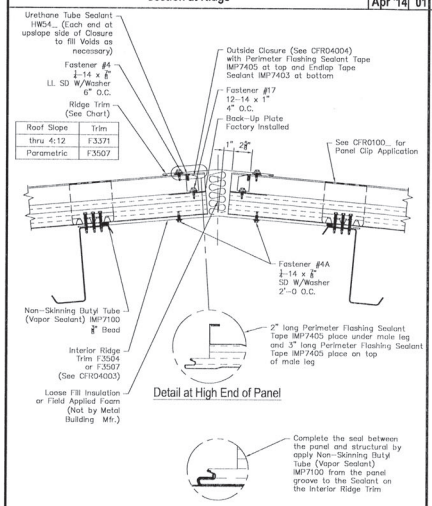
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Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R16 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

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CFR Roof
Section at Ridge

Page CFR04001 | Date Apr '14 | Rev 01

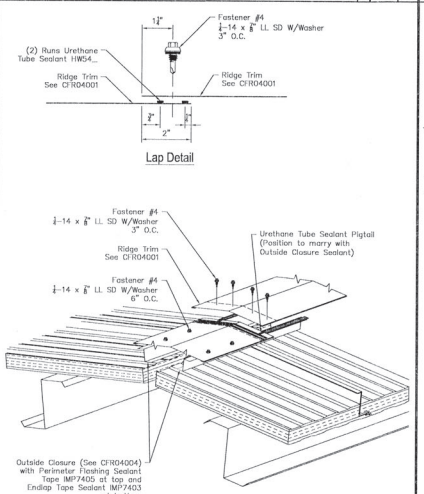


Roof Slope	Trim
thru 4:12	F3371
Parametric	F3507

Detail at High End of Panel

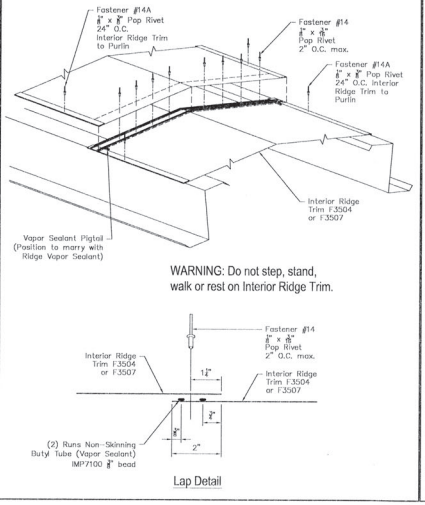
CFR Roof
Ridge Trim End Lap

Page CFR04002 | Date Apr '14 | Rev 02



CFR
Interior Ridge Trim End Lap

Page CFR04003 | Date Jul '13 | Rev 00

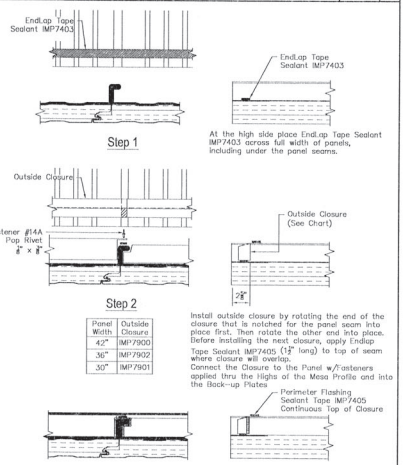


WARNING: Do not step, stand, walk or rest on Interior Ridge Trim.

Lap Detail

CFR Roof
Outside Closure Installation

Page CFR04004 | Date Jul '13 | Rev 00



Panel Width	Outside Closure
42"	IMP7900
36"	IMP7902
30"	IMP7901

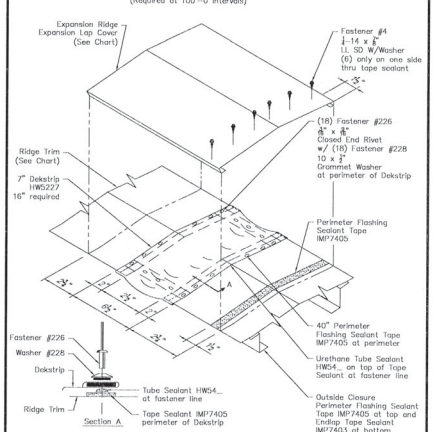
Install outside closure by rotating the end of the closure that is notched for the panel seam into place first. Then rotate the other end into place. Before installing the next closure, apply Endlap Tape Sealant IMP7405 (12" long) to top of seam where closure will overlap. Connect the Closure to the Panel w/Fasteners applied thru the Highs of the Mesa Profile and into the Back-up Plates

Apply Perimeter Flashing Sealant Tape IMP7405 to the top flange. Seal any voids between closures and panel seams with Urethane Tube Sealant HW54_ from the upslope side of closure.

CFR - Expansion Ridge
Expansion Lap

Page CFR04005 | Date Apr '14 | Rev 02

(Required at 100'-0 intervals)



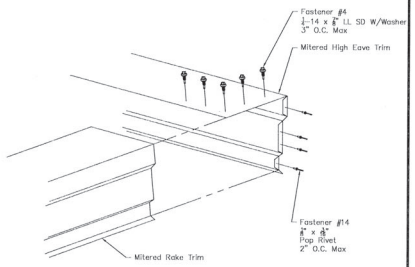
Fold the edge of the Dekstrip over the Ridge Trim making sure that the end of the Dekstrip is past the downhill edge of the Metal Outside Closure. Use Duck-Bill Pliers to crimp the flange of the Expansion Lap Cover edges over the Ridge Trim.

* Locate Expansion joint between Panel Ribs

ROOF SLOPE	RIDGE TRIM	EXP. LAP COVER
Thru 4:12	F3371	F3372
Parametric	F3507	F3721

CFR Roof
Mitered Standard High Side Trim to Rake

Page CFR05003 | Date Apr '14 | Rev 01



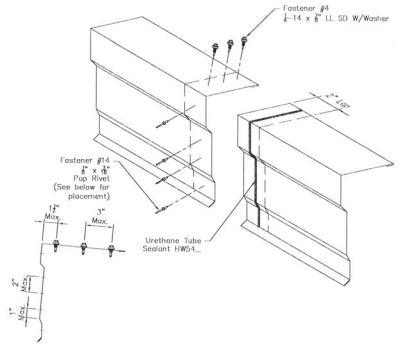
1.) Apply Urethane Tube Sealant HW54_ to tabs. Inspect after installing and seal any gaps with Urethane Tube Sealant.

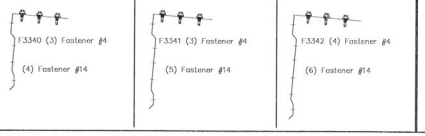
2.) Align edges of Rake Trim and High Side Trim and attach Trim as shown. Apply Urethane Tube Sealant HW54_ along edges to seal.

3.) See Construction Details included with Erection Drawings for attachment of Rake Trim and High Side Trim to Roof and Walls.

CFR Roof
Standard High Side Trim End Lap

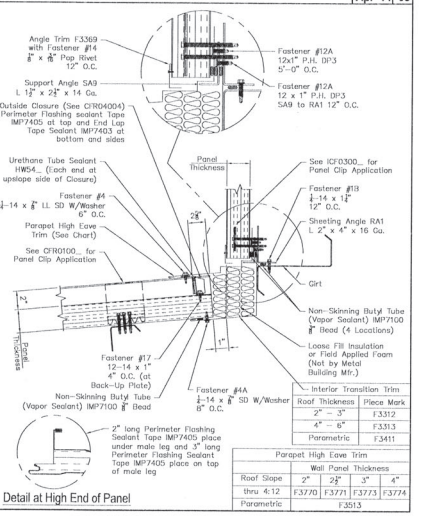
Page CFR05004 | Date Apr '14 | Rev 01





CFR Roof - Insulated Concealed Fastener Wall
Below Eave Tie-In - Common Wall Open

Page CFR06003 | Date Apr '14 | Rev 03



Detail at High End of Panel

Interior Transition Trim	
Roof Thickness	Piece Mark
2" - 3"	F3312
4" - 6"	F3313
Parametric	F3411

Parapet High Eave Trim				
	Wall Panel Thickness			
Roof Slope	2"	2 1/2"	3"	4"
thru 4:12	F3770	F3771	F3773	F3774
Parametric	F3513			

ASTAR BUILDING SYSTEMS
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OKLAHOMA CITY, OK 73169
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Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Revision	Date	By	Ck'd

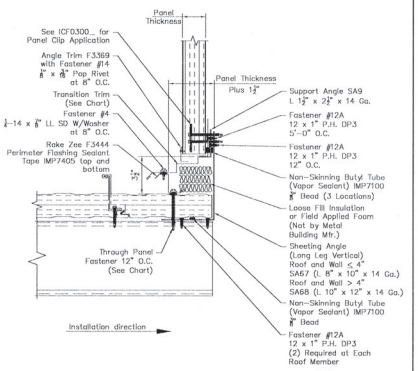
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Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R17 of 21

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CFR Roof - Insulated Concealed Fastener Wall
Rake Parapet Tie-In - Common Wall Open

Page CFR06010 | Date Jul '14 | Rev 04



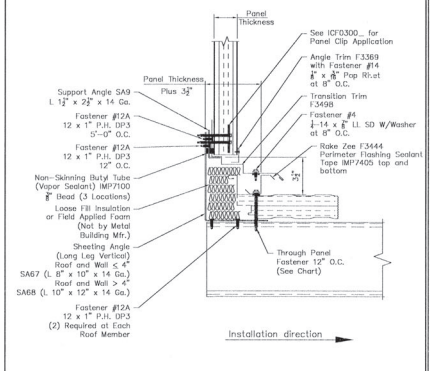
Roof Panel Thickness	Through Panel Fastener
2"	Fastener #1124
2 1/2"	Fastener #1132
3"	Fastener #1132
4"	Fastener #1140
5"	Fastener #1148
6"	Fastener #1156

Note:
Use F3573RL Parapet Rake Trim End Cap (Erector To Field Modify As Required)

Wall Panel Thickness	Transition Trim
2"	F3790
2 1/2"	F3791
3"	F3793
4"	F3794
Parametric	F3498

CFR Roof - Insulated Concealed Fastener Wall
Rake Parapet Tie-In - Common Wall Open

Page CFR06010X | Date Jul '14 | Rev 04

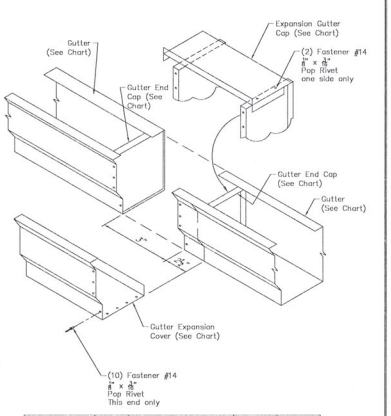


Roof Panel Thickness	Through Panel Fastener
2"	Fastener #1124
2 1/2"	Fastener #1132
3"	Fastener #1132
4"	Fastener #1140
5"	Fastener #1148
6"	Fastener #1156

Note:
Use F3573RL Parapet Rake Trim End Cap (Erector To Field Modify As Required)

CFR Roof
Northern Gutter Expansion Installation - 100'-0" Maximum

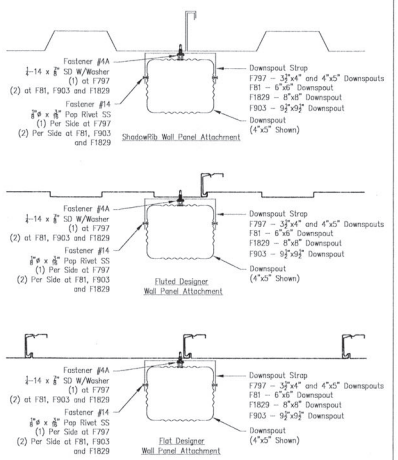
Page CFR02026 | Date May '14 | Rev 00



Roof Panel Thickness	Northern Gutter	Gutter End Cap	Expansion Cover	Expansion Cap
2", 2 1/2", 3"	F3903	F3933 (11) Fastener #14	F3983	F3993
4", 5"	F4302	F4232 (13) Fastener #14	F4322	F4352
6"	F4304	F4234 (14) Fastener #14	F4324	F4354

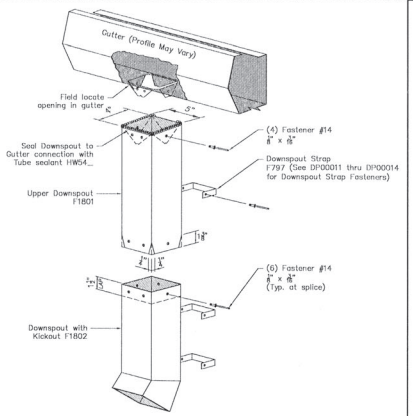
Downspout Strap Attachment
ShadowRib, Fluted & Flat Designer Fully Sheeted Wall

Page DP00013 | Date Jun '15 | Rev 00



Press Broke Downspout Layout 4" x 5"

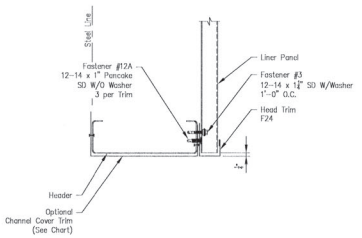
Page DP00020 | Date Jan '16 | Rev 01



Note:
1. Refer to the building erection drawings for the spacing of the downspouts.
2. Locate all downspouts over a panel major rib if possible.
3. Downspout straps F797 are Located at the bottom of a downspout, below a splice, and at a mid point of downspout longer than 10'-6". See DP00011 thru DP00014 for downspout strap fasteners
4. Field notch downspouts for lap as shown and cut to length.

PBR Wall Liner
Framed Opening Header

Page RL01026 | Date Aug '15 | Rev 04

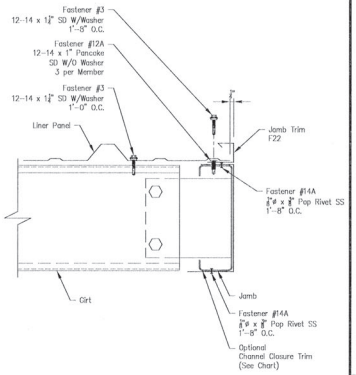


Channel Closure Trim Piece Mark							
Member Size	8"	8 1/2"	10"	10 1/2"	12"	12 1/2"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be orientated (±1/2") to match the interior leg of the Header or Jamb.

PBR Liner
Framed Opening Jamb

Page RL01027 | Date Aug '15 | Rev 05

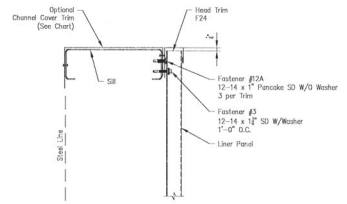


Channel Closure Trim Piece Mark							
Member Size	8"	8 1/2"	10"	10 1/2"	12"	12 1/2"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be orientated (±1/2") to match the interior leg of the Header or Jamb.

PBR Liner
Framed Opening Sill

Page RL01028 | Date Aug '15 | Rev 01



Channel Closure Trim Piece Mark							
Member Size	8"	8 1/2"	10"	10 1/2"	12"	12 1/2"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be orientated (±1/2") to match the interior leg of the Header or Jamb.

Revision	Date	By	Ck'd	Description

ASTAR BUILDING SYSTEMS®
P.O. BOX 84905
OKLAHOMA CITY, OK 73143
(405) 525-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
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RAVENA, NY

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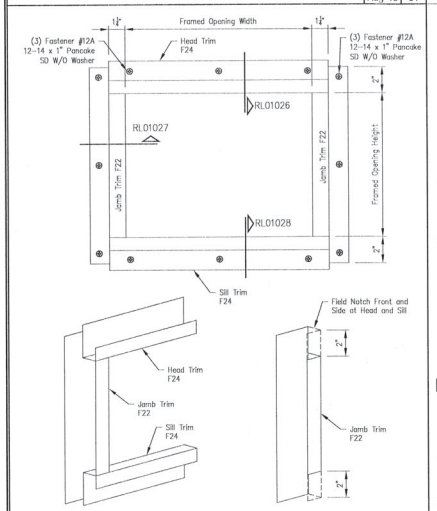
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Drawn by:	
Checked by:	
Project Engineer:	
Job Number:	15-B-10248
Sheet Number:	R18 of 21

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DRSTIA ENSTIA

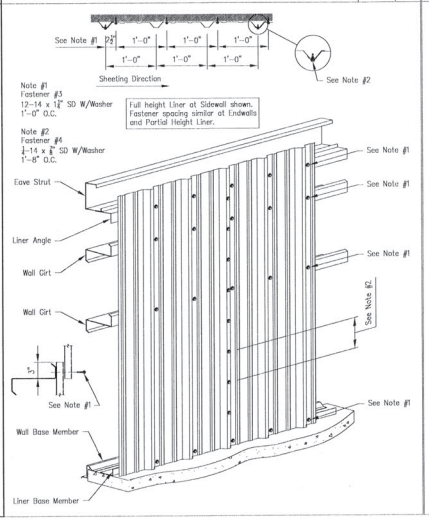
PBR Liner
Four Sided Framed Opening

Page RL01107 | Date Aug '15 | Rev 01



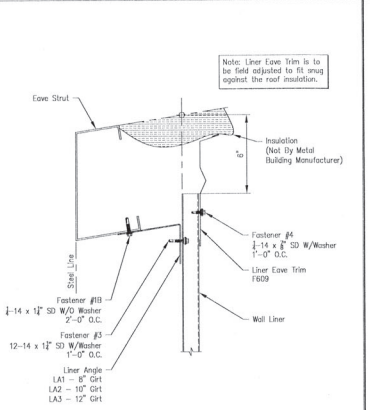
PBR Wall Liner
Fastener Location - Non-Windward

Page RL01109 | Date Jun '15 | Rev 00



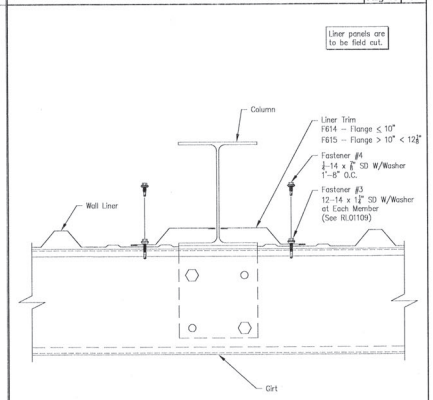
PBR Wall Liner
Full Height - Low Eave

Page RL01110 | Date Jun '15 | Rev 00



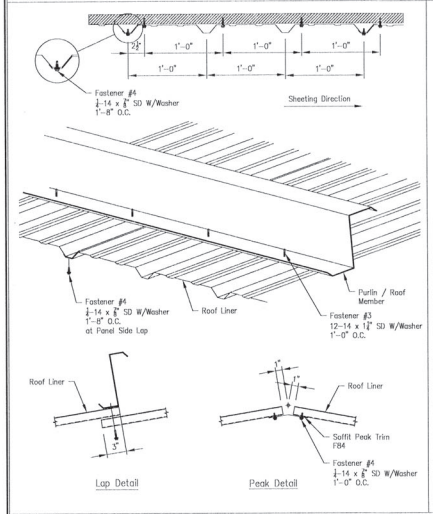
PBR Wall Liner
Interior Column - By-Pass Girts

Page RL01113 | Date Aug '15 | Rev 01



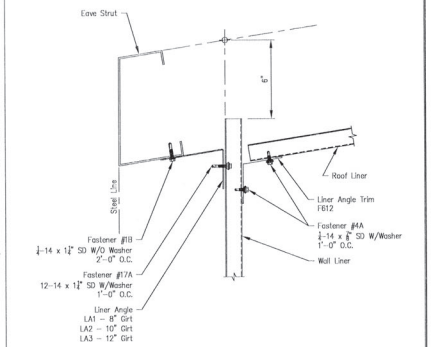
PBR Roof Liner
Fastener Location, End Lap and Peak Detail

Page RL01120 | Date Jun '15 | Rev 00



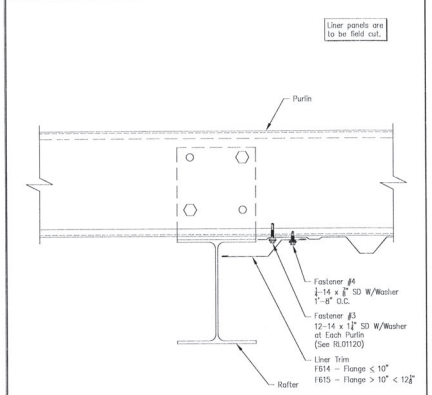
PBR Wall Liner
Full Height with Roof Liner

Page RL01121 | Date Jun '15 | Rev 00



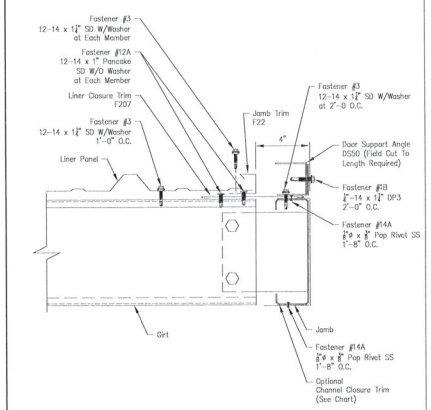
PBR Roof Liner
Interior Rafter - By-Pass Purlins

Page RL01123X | Date Aug '15 | Rev 01



PBR Liner
Overhead Door Jamb

Page RL01025X | Date Jun '15 | Rev 04



Channel Closure Trim Piece Mark						
Member Size	8"	8½"	10"	10½"	12"	12½"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be orientated (± ½") to match the interior leg of the Header or Jamb.

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 849910
OKLAHOMA CITY, OK 73143
(405) 535-2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
- ☐ Preliminary (Not For Construction)
- ☐ For Approval (Not For Construction)
- ☐ For Construction Permit
- ☒ For Erector Installation

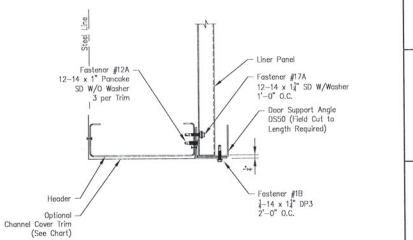
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R19 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTIA ENSTIA

PBR Wall Liner
Framed Opening Header

Page RL01026X | Date Aug '15 | Rev 04



Channel Closure Trim Piece Mark						
Member Size	8"	8½"	10"	10½"	12"	12½"
Piece Mark	F991	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be orientated (±½") to match the interior leg of the Header or Jamb.

PBR, PBU, AVP, PBA, VistaShadow
Panel Fasteners

Page G000006 | Date Aug '15 | Rev 06

Wall Fasteners	Roof Fasteners Long Life (Optional at Wall)	Optional Roof or Wall Fasteners Stainless Steel Cap
Member Screw Fastener #17A 12-14 x 1½" Hex Washer Head w/washer	Member Screw Fastener #3 12-14 x 1½" Hex Washer Head w/washer	Member Screw Fastener #3SSBX 12-14 x 1½" Hex Washer Head w/washer
Member Screw Optional Fastener #17B 12-14 x 1½" Hex Washer Head w/washer	Member Screw Optional Fastener #3A 12-14 x 1½" Hex Washer Head w/washer	Member Screw Optional Fastener #3ASSBX 12-14 x 1½" Hex Washer Head w/washer
Member Screw Optional Fastener #28 12-14 x 2" Hex Washer Head w/washer	Member Screw Optional Fastener #58 12 x 2" Hex Washer Head w/washer	Member Screw Optional Fastener #272SSBX 12-24 x 2" DP5 Hex Washer Head w/washer
Stitch Screw Fastener #4A ¼-14 x ⅞" Hex Washer Head w/washer	Stitch Screw Fastener #4 ¼-14 x ⅞" Hex Washer Head w/washer	Stitch Screw Fastener #4SSBX ¼-14 x ⅞" Hex Washer Head w/washer

NOTE: Refer to bill of materials for specific job requirements

Various Fasteners

Page G000009 | Date Nov '15 | Rev 10

Fastener #17 12-14 x 1" 5/16" Hex Washer Head w/ Washer	Fastener #3B ¼"-14 x 7/8" Lap TEK 5/16" Hex Washer Head	
	Fastener #12A 12-14 x 1" DP3 Pancake Head	
Fastener #55 12-24 x 1 1/4" DP5 5/16" Hex Washer Head	Fastener #70 12-24 x 1 1/2" DP5 5/16" Hex Washer Head	Fastener #142 1/4"-14 x 1 1/2" 5/16" Hex Washer Head
Fastener #76 12-14 x 2" 5/16" Hex Washer Head	Fastener #61 12-14 x 1 1/4" 5/16" Hex Washer Head	Fastener #18 1/4"-14 x 1 1/4" 5/16" Hex Washer Head
Fastener #16 12-24 x 1" Pancake SD DP5 W/O Washer	NOTE: Refer to bill of materials for specific job requirements	Fastener #46 1/4-14 x 5/8" Type B Long Life 5/16" Hex Washer Head w/ Washer

NOTE: Refer to bill of materials for specific job requirements

Fasteners

SHT. NO. G000004 | DATE Sep '14 | REV. 03

FASTENER #27I 8-18 x 1/2" Trim Screw	FASTENER #24 8 x 5/8" Nibbed Driller	FASTENER #22B 10 x 1/2" Grommet Washer
FASTENER #14 1/8" x 3/16" Pop Rivet Stainless Steel	FASTENER #14A 1/8" x 3/8" Pop Rivet Stainless Steel	FASTENER #226 3/16" x 9/16" Closed End Rivet
FASTENER #43 L.T.P. Member Screw 1/4"-14 x 1 1/4" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #43L L.T.P. Member Screw (Long Life) 1/4"-14 x 1 1/4" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #HW599 #6 x 1" Rubber Grommet 1/4" Hex Head w/ Washer
FASTENER #44 L.T.P. Stitch Screw 1/4"-14 x 7/8" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #44L L.T.P. Stitch Screw (Long Life) 1/4"-14 x 7/8" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	FASTENER #35 #14 x 1 1/8" O.D. Bonded Washer

Tape Sealant and Tube Sealant

Page G000005 | Date Oct '15 | Rev 03

TRI-BEAD TAPE SEALER HW504 ⅛" X ⅜" X 25'-0"	FLAT TAPE SEALER HW507 1/32" X ½" X 50'-0"	TAPE SEALER - SWAGED HW515 ⅛" X 2½" X 6" 6" BattenLok HS SuperLok
TRIPLE BEAD TAPE SEALER HW502 ⅛" X 2½" X 20'-0"	FLAT TAPE SEALER HW506 1/32" X 1" X 45'-0"	
URETHANE TUBE SEALANT HW540 (White) HW541 (Gray) HW542 (Bronze) Note: 25'-0" per Tube at 1/4" Bead	TAPE SEALER MINOR RIB HW512 4" 1/32" X 1⅜" X 4"	NON-SKINNING BUTYL TUBE (VAPOR SEALANT) IMP7100 (WHITE) Note: 12'-6" per Tube at 3/8" Bead
DEKSTRIP 7" WIDE = HW5227 DEKSTRIP 9" WIDE = HW5228 DEKSTRIP 12" WIDE = HW5229 COLOR = Gray SCREWS 2" O.C. MAX. PERIMETER TAPE SEALANT BOTH SIDES TUBE SEALANT EACH END TERMINATION STRIP HW5305 EACH END (1" Wide x 4'-0" Long Alum.)	2" WIDE X 24 GA. STRAPPING • FL470 - 25'-0" Roll Galvalume Plus Only • FL471 - 100'-0" Roll Galvalume Plus Only • FL569 - 500'-0" Roll Galvalume Plus or White Wash Coat	FLEXIBLE MEMBRANE (EPDM) 24" 15'-2" • HW520 - 16" x 50'-0" Roll • HW521 - 24" x 50'-0" Roll NOTE: Refer to bill of materials for specific job requirements

Revision	Date	By	Ck'd	Description

STAR BUILDING SYSTEMS® AN MCA COMPANY
P.O. Box 94310 OKLAHOMA CITY, OK 73143 (405) awning 2010

Project Name & Location:
CITY OF BEACON
BEACON, NY

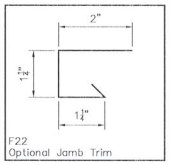
Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

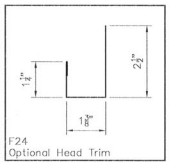
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R20 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

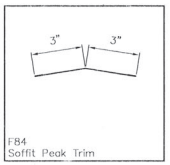
DRST1A ENST1A



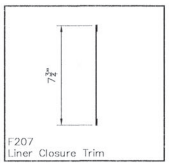
F22
Optional Jamb Trim



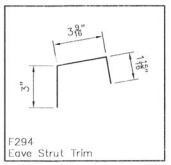
F24
Optional Head Trim



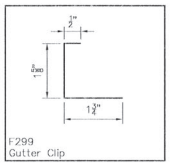
F84
Soffit Peak Trim



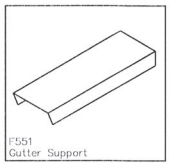
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Liner Closure Trim



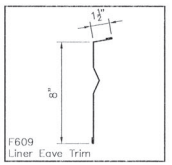
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Eave Strut Trim



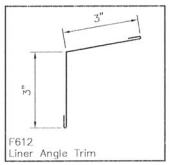
F299
Gutter Clip


F551
Gutter Support

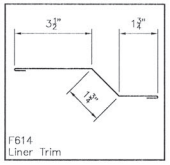

F555
Gutter Hanger



F609
Liner Eave Trim

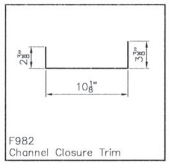


F612
Liner Angle Trim

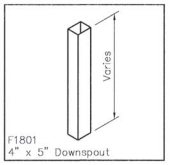


F614
Liner Trim

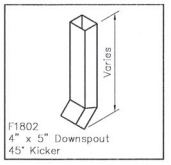

F797
Downspout Strap



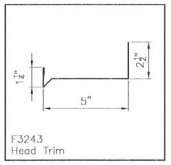
F982
Channel Closure Trim



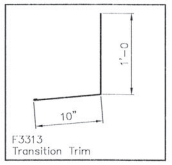
F1801
4" x 5" Downspout



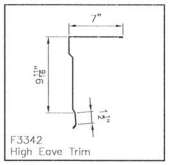
F1802
4" x 5" Downspout
45° Kicker



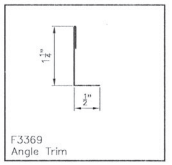
F3243
Head Trim



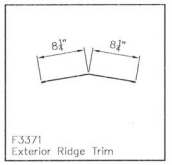
F3313
Transition Trim



F3342
High Eave Trim

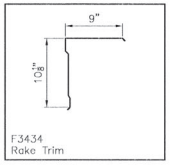


F3369
Angle Trim

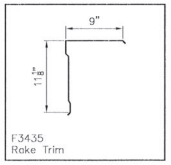


F3371
Exterior Ridge Trim

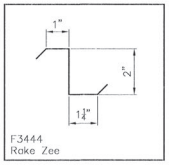

F3372
Expansion Ridge Trim Cover



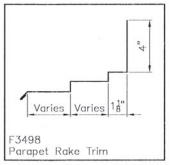
F3434
Rake Trim



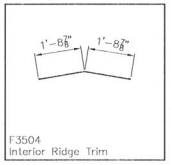
F3435
Rake Trim



F3444
Rake Zee

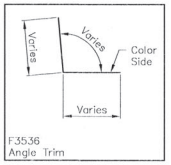


F3498
Parapet Rake Trim

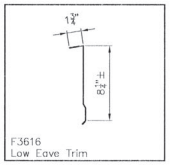


F3504
Interior Ridge Trim


F3510
Rake Angle Lap Cover

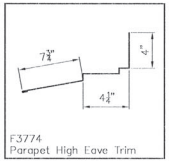


F3536
Angle Trim

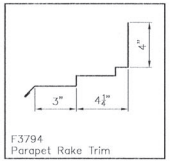


F3616
Low Eave Trim


F3700
Rake Trim End Closure



F3774
Parapet High Eave Trim

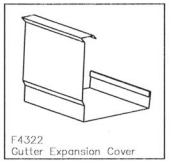


F3794
Parapet Rake Trim


F4232
Gutter End Cap

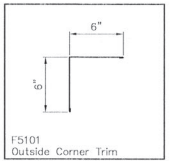


F4302
Gutter

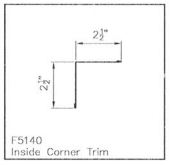

F4322
Gutter Expansion Cover


F4342
Gutter Support

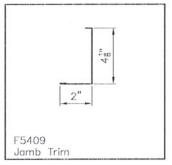

F4352
Gutter Expansion Cap



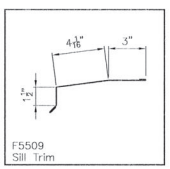
F5101
Outside Corner Trim



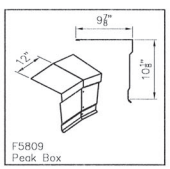
F5140
Inside Corner Trim



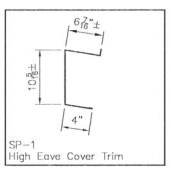
F5409
Jamb Trim



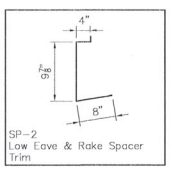
F5509
Sill Trim



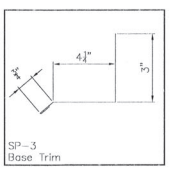
F5809
Peak Box



SP-1
High Eave Cover Trim



SP-2
Low Eave & Rake Spacer Trim



SP-3
Base Trim

Revision	Date	Description	By	Ck'd

ASTAR BUILDING SYSTEMS®
AN NCI COMPANY
P.O. BOX 94913
OKLAHOMA CITY, OK 73143
(405) 636-2013

Project Name & Location:
CITY OF BEACON
BEACON, NY

Customer:
STEEL SOLUTIONS INC
RAVENA, NY

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 15-B-10248
Sheet Number: R21 of 21

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

DRSTIA ENSTIA