



375 Essjay Road, Suite 200, Williamsville, New York 14221
P 716.688.0766 F 716.625.6825

ADDENDUM NO. 2

Ithaca Fire Station
Wendel Project No. 618601

DATE

9/13/2023

OWNER

City of Ithaca
108 E. Green Street
Ithaca, NY 14850

ARCHITECT/ENGINEER

Wendel WD Architecture, Engineering,
Surveying & Landscape Architecture, P.C.
375 Essjay Road
Suite 200
Williamsville, NY 14221
Phone: 716-688-0766
Fax: 716-625-6825

Mitchell Associates Architects, PLLC
29 Thacher Park Road
Voorheesville, NY 12186

Project No. 618601

This Addendum is being issued to clarify the bid documents and shall supersede and supplement all portions of previously issued bid documents with which it conflicts. It shall be made an integral part of the construction documents.



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ARTICLE - 1

DRAWING NO. _____
SPEC 001113- Notice to
SECTION Bidders

Minority/Women-Owned Business Requirements

REPLACE: M/WBE Participation Goal for EACH Prime Contract: 30% of Contract Sum

WITH: M/WBE Participation Goal for EACH Prime Contract: 4.5% of Contract Sum

ARTICLE - 2

DRAWING NO. _____
SPEC _____
SECTION 004113

REPLACE The Bid Form in its entirety with the Bid Form included in this addendum.

ARTICLE - 3

DRAWING NO. _____
SPEC _____
SECTION 012100

REPLACE The Allowances specifications in its entirety with the Allowances specification included in this Addenda.

ARTICLE - 4

DRAWING NO. _____
SPEC _____
SECTION AIA A101-2017

Article 3.3 Substantial Completion Paragraph 3.3.1

REPLACE: "By the following date: July 3, 2024 and Final Completion of the entire work by August 1, 2024"

WITH:

"By the following date: January 17, 2025 and Final Completion of the entire work by February 14, 2025."

REPLACE

AIA A101- 2017 in its entirety with the AIA A101-2017 included in this Addendum.



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ARTICLE - 5 DRAWING NO. _____
SPEC SECTION 011200

Multiple Contract Summary, Article 1.04 Contracts Paragraph A Sub paragraph 6a

REPLACE:

Scope of work includes but is not limited to demolition of existing structures on site (including any and all hazardous material abatement required), all excavation, earthwork, proof rolling, cutting/stock-piling, filling/compacting site improvement items, site demolition items, landscaping and site utilities(from the street to 5' outside the building, except for electrical service which is the work of Contract 3) storm system, site fencing, piling, erosion and sediment control and all ancillary or incidental items, whether shown in the drawings or not, in order to provide a complete, code compliant and fully functional system.

WITH:

Scope of work includes but is not limited to all excavation, earthwork, proof rolling, cutting/stock-piling, filling/compacting site improvement items, site demolition items, landscaping and site utilities(from the street to 5' outside the building, except for electrical service which is the work of Contract 3) storm system, site fencing, piling, all site concrete, retaining walls, erosion and sediment control and all ancillary or incidental items, whether shown in the drawings or not, in order to provide a complete, code compliant and fully functional system.

ARTICLE - 6 DRAWING NO. _____
SPEC SECTION 011200

Multiple Contract Summary, Paragraph 1.12 Contract No.1- Bid Package No. 01 – General Construction, Subparagraph A 1

REMOVE:

Subparagraph A, 1, z in its entirety
Subparagraph A, 1, aa in its entirety
Subparagraph A, 1, bb in its entirety



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ARTICLE - 7 DRAWING NO. _____
SPEC _____
SECTION _____

CLARIFICATION:

All Geothermal work depicted in the Contract documents will be covered under Allowance No. 2 in Section (Allowance) as part of the Contractor's Bid.

ARTICLE - 8 DRAWING NO. _____
SPEC _____
SECTION 275116

REMOVE Specification Section 275116 Public Address Systems from Project Manual in its entirety as well as on the Table of Contents.

ARTICLE - 9 DRAWING NO. _____
SPEC _____
SECTION 271000

ADD Specification section 271000 Structured Cabling included in this addenda to the Project Manual and Table of Contents.

ARTICLE - 10 DRAWING NO. _____
SPEC _____
SECTION 281000

REPLACE Specification section 281000 Access Control with the specification included in this addenda.

ARTICLE - 11 DRAWING NO. E001
SPEC _____
SECTION _____

REPLACE Drawing Sheet E001 with Drawing Sheet E001 included in this Addenda.



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ARTICLE - 12 DRAWING NO. E103
SPEC _____
SECTION _____

REPLACE Drawing Sheet E103 with Drawing Sheet E103 included in this Addenda.

ARTICLE - 13 DRAWING NO. E104
SPEC _____
SECTION _____

REPLACE Drawing Sheet E104 with Drawing Sheet E104 included in this Addenda.

ARTICLE - 14 DRAWING NO. E105
SPEC _____
SECTION _____

REPLACE Drawing Sheet E105 with Drawing Sheet E105 included in this Addenda.

ARTICLE - 15 DRAWING NO. E501
SPEC _____
SECTION _____

REPLACE Drawing Sheet E501 with Drawing Sheet E501 included in this Addenda.

ARTICLE - 16 DRAWING NO. E501A
SPEC _____
SECTION _____

REPLACE Drawing Sheet E501A with Drawing Sheet E501A included in this Addenda.



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ARTICLE - 17 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Column lines C & D, along the sheet piling and the concrete foundation wall. No waterproofing is called out anywhere for this wall. The remainder of the building is waterproofed. Please confirm if you want waterproofing along these column lines? If so, please provide a spec / product to use.

ANSWER:

Waterproofing as specified in Section 071300 "Sheet Waterproofing", is not required at the sheet piling/ concrete foundation wall along column lines C&D.

ARTICLE - 18 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Note F on E-106 states that no more than 3 circuits can be combined in a home run conduit. Paragraph A.7 in Specification Section 260519-10 states that no more than 3 current carrying conductors can be installed in a single raceway and to treat neutrals as a current carrying conductors. This effectively means that only 1 circuit could be installed in a raceway. Either scenario will add significant cost to the project. Will more than 3 circuits in a single conduit be allowed as long as the conductors are derated per Table 310.15(B)(3)(a) of the National Electric Code?

ANSWER:

More than 3 current carrying conductors in a single conduit shall not be allowed per drawings and specs.



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ARTICLE - 19 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTIONS:

1. The fixtures below are shown on the floor plans but not on the Light Fixture Schedule. Please provide a specification for them.

Type T22
Type VD22
Type VD42

2. On the second floor lighting plan, there are symbols that appear to exit signs but they are obscured by a question mark (?) Are these symbols exit signs? Also, the exit signs do not appear on the Light Fixture Schedule.

ANSWER:

The light fixture questions will be clarified in Addendum No.2

ARTICLE - 20 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

On M101 keynote #11 – 1st fl the return side of the indoor units open ended with bird screen.

On M201- detail #1 – Return register (rooms with ceilings)

Please clarify what is expected.

ANSWER:

Provide as shown on Dwg. M101, utilizing plenum with remote return grilles and bird screen on open ended return ducts.



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ARTICLE - 21 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Drawing M110 for proposed Geothermal Well Field plan calls for the mechanical to refer to the spec section 232113.33. This spec section indicates that mechanical contractor is responsible for the design and execution of the geothermal system. Please indicate the extent of the "delegated design" for the system? With the current information provided we are unable to obtain pricing on a well field for the system.

ANSWER:

This will be covered in addendum #2 with an allowance for bidding. The intent of the delegated design is to provide a signed and stamped design for the geothermal well field system. Testing will need to be completed once construction begins.

ARTICLE - 22 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

The scope of work states that the EC is responsible for the entirety of Div. 27. There is a specification section of a Public Address System. There are no speakers or anything related to the PA system shown on the drawings. Is the EC Responsible for anything related to the PA System?

ANSWER:

PA system shall be provided by owner and installed by EC. Spec section shall be removed part of Addendum No.2 and an allowance shall be added to bid form.

ARTICLE - 23 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Drawing E001 shows two sets of symbols for the Data (Systems) symbols. One set of symbols states that the data cables, jacks & terminations shall be provided by others and not part of this contract. The other set is symbols instructs the EC to provide a minimum of 2 cat 6 cables and terminations. Is the EC responsible for anything more than rough in and pull strings for the data drops. TV Connection drops, A/V Connection and Wireless access points? if the EC is responsible for anything more than rough in for the above referenced devices, please provide a specification for the cabling and terminations required.

ANSWER:

Cabling and terminations shall be clarified in Addendum No.2



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ARTICLE - 24 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Please identify where the access control panel should be located. Additionally, please clarify the type and number of credentials required to be provided by the EC.

ANSWER:

Access control panel shall be located in IT room and type and number required shall be clarified in Addendum No.2

ARTICLE - 25 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTIONS:

Retaining wall plan, R101.

1. All concrete retaining walls and sheet piling shown on R101, will this all be the responsibility of the site prime contractor? With the except for the concrete retaining wall that is being used as part of the buildings foundation wall shown on S101?
2. General sheet notes - grading #2, is the general contractor suppose to notify all utility companies, or should this say site prime? please advise.

ANSWERS:

1. All retaining walls and sheet piling is the responsibility of the Site Contractor (Contract #06) and the foundation/retaining wall shown on S101 is the responsibility of the General Contractor (Contract #01)
2. Site Contractor is to notify the utility companies.

ARTICLE - 26 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Is there a cost estimate , budget or ballpark figure for the project listed? Is there an actual start date for the project? Could I secure a copy of the plan holders list?

ANSWER:

Estimated costs for the project have been published in Addendum 1



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ARTICLE - 27 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Please clarify who is responsible for the delegated design related to the geothermal system. The design will effect both the mechanical contract in relation to the heat pumps and the sitework contract in relation to drilling the wells.

ANSWER:

The geothermal delegated design is the responsibility of the HVAC contractor and will be need to be coordinated with the Site Contractor.

ARTICLE - 28 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Please clarify who is responsible for the costs associated with the sewer and water tie in in the roadway. If the contractor is responsible, please consider adding an allowance for this as typically the city just performs the work and then sends a bill. They do not provide estimated costs prior to install.

ANSWER:

Per the Multiple contract Summary the Site Contractor is responsible for the site utilities from the street to 5'-0" outside the building.

ARTICLE - 29 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Please provide hazardous material surveys for the existing building to be demolished or confirm that buildings are to be priced and controlled demolitions.

ANSWER:

Per addendum #2 the demolition of the existing buildings and hazardous material abatement will be done prior to the start of construction and is no longer a requirement of the project.



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ARTICLE - 30 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

Please confirm all of the sheeting and concrete cap for the sheets will be the responsibility of the site contractor prime?

ANSWER:

The sheeting and concrete cap is the responsibility of the Site Contractor.

ARTICLE - 31 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

I am doing a job quote for pumps and heat exchangers, but I cannot find anything for specs to quote the appropriate material for this project. Any assistance with this would be greatly appreciated.

ANSWER:

The design and specification of the plate and frame heat exchanger shall be the responsibility of the geothermal loop system delegated designer. and shall be capable of transferring the required loads from the building heat pump loop side to the geothermal well field side.

ARTICLE - 32 DRAWING NO. _____
SPEC _____
SECTION _____

QUESTION:

AIA A101- 2017- Exhibit A- Insurance and Bond Requirements state there should only be (1) builders risk on the project. Under the Owner's insurance requirements, it states that the owner will provide the builders risk policy. Now look at Contractors insurance requirements, this states the Contractor is to provide a builders risk. Please confirm the Owner will purchasing the builders risk since this is a multi prime project and the GC should not be required to provide for the entirety of the project.

ANSWER:

The Owner is to provide the Builder's risk policy.



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Project	<u>Ithaca Fire Station</u>	Addendum No.	<u>02</u>
		Contract	<u></u>
Wendel Project No.	<u>618601</u>	Date	<u>9/13/2023</u>

ARTICLE -	<u>33</u>	DRAWING NO.	<u></u>
		SPEC	<u></u>
		SECTION	<u></u>

QUESTION:

Does tempered water get insulated? If so please advise on what material and thickness to be used?

ANSWER: Provide 1" thick glass fiber insulation for tempered water going to hose reel(s).
Tempered water to eyewash does not require insulation.

BID FORM

To: City of Ithaca
Ithaca Fire Station
403 Elmwood Ave
Ithaca, NY 14850

In compliance with the Notice to Bidders, the undersigned:

(Name of firm, partnership, or Corporation)

hereby proposes to furnish all supervision, labor, materials, plant, tools, equipment, transportation, overhead and profit, and other facilities related to, proper for, or incidental to the Bid Package noted below for the Ithaca Fire Station, in strict accordance with the Project Manuals dated April 2, 2023 and the Drawings mentioned therein, and including any subsequently issued addenda for consideration of the following breakdown:

BID PACKAGE: (check one)

- ☐ Bid Package No.01 – General Construction (GCC)
- ☐ Bid Package No.02 – Heating, Ventilation and Air Conditioning (MC)
- ☐ Bid Package No.03 – Electrical (EC)
- ☐ Bid Package No.04 – Plumbing (PC)
- ☐ Bid Package No.05 – Fire Protection (FSC)
- ☐ Bid Package No.06 – Site Utility (SC)

BID ITEMS: Refer to Division 01 Section “Description of Bid Items” for complete description.

LUMP SUM COST OF CONSTRUCTION

_____ Dollars (\$_____)

REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL WITH COMPACTED

STRUCTURAL FILL – Unit price of \$_____/CY, times assumed quantity of 2,000CY.

(Fill in unit price and computed total for this bid item, applicable to Bid Package No. 06 ONLY)

Computed Total _____ Dollars

(\$_____) **OPEN EXCAVATION ROCK REMOVAL** – Unit price of \$_____/CY, times assumed quantity of 500CY. (Fill in unit price and computed total for this bid item, applicable to Bid Package No. 06 ONLY)

Computed Total _____ Dollars

(\$_____) **PLACEMENT OF LEAN CONCRETE FILL MATERIAL** – Unit price of \$_____/CY, times assumed quantity of 250CY. (Fill in unit price and computed total for this bid item,

applicable to Bid Package No. 06 ONLY)

Computed Total _____ Dollars
(\$ _____) PIER AND TRENCH ROCK REMOVAL – Unit price of \$ _____/CY, times
assumed quantity of 250CY. (Fill in unit price and computed total for this bid item, applicable to Bid
Package No. 06 ONLY)

Computed Total _____ Dollars
(\$ _____) FLUID APPLIED FLOORING MOISTURE MITIGATION – Unit price of
\$ _____/SF, times assumed quantity of 4,000SF.
(Fill in unit price and computed total for this bid item, applicable to Bid Package No. 06 ONLY)

Computed Total _____ Dollars
(\$ _____) WINTER CONDITIONS FOR FOUNDATION WORK – Allowance of \$200,000.00
for winter conditions for foundation work only (applicable to Bid Package No. 01 ONLY)

Computed Total _____ Dollars
(\$200,000.00) GEOTHERMAL SYSTEM – Allowance of \$500,000.00 (applicable to Bid Package No.
02 ONLY)

Computed Total _____ Dollars
(\$500,000.00) COMMUNICATION AND 911 BACKBONE SYSTEM – Allowance of \$45,000.00 for
Communication and 911 backbone system.

Computed Total _____ Dollars
(\$45,000.00) TOTAL LUMP SUM BASE BID (LUMP SUM OF CONSTRUCTION +
APPLICABLE ITEMS ABOVE)

_____ Dollars (\$ _____)

ALTERNATES: Refer to Division 01 Section 011200 “Multiple Contract Summary” for specific trade
description of work, and 012300 "Alternates" for complete description.

Alternate #1: Architectural Wood Casework in rooms 108 “DAY ROOM/ KITCHEN/ DINING” and
ROOM 109 “LIVING ROOM”.

ADD _____ Dollars (\$ _____)

NOTE: BASIS OF CONTRACT AWARD WILL BE IN ACCORDANCE WITH ARTICLE 5 OF
“INSTRUCTION TO BIDDERS”

MINORITY/WOMEN-OWNED BUSINESS REQUIREMENTS

The undersigned agrees to make a good faith effort in complying with the Minority and Women Owned
Business Participation Goal as indicated below. The applicable forms (Form A – MBE Utilization Plan
and Form B – WBE Utilization Plan) following this Bid Form must be completed and submitted with the
Bid Form. M/WBE Participation Goal for General Construction Contract: 30% of Contract Sum

The undersigned proposes to use the following subcontractors to complete the scope of work detailed within the Contract Documents:

MBE: YES/NO WBE: YES/NO

MBE: YES/NO WBE: YES/NO

MBE: YES/NO WBE: YES/NO

618601
Ithaca Fire Station

BID FORM
004113-3

MBE: YES/NO WBE: YES/NO

SUMMARY OF WORK:

5.	<u>SUBCONTRACTOR NAME</u>	<u>PHONE #</u>	<u>TRADE</u>
	<hr/>	<hr/>	<hr/>

MBE: YES/NO WBE: YES/NO

SUMMARY OF WORK:

ATTACH ADDITIONAL SHEET TO THIS BID FORM LISTING PROPOSED SUBCONTRACTORS AS NECESSARY.

The Bidder agrees that this Proposal shall be good and may not be withdrawn for a period of sixty (60) calendar days from the date of Bid opening. Furthermore, the undersigned will, within five (5) days of written Notice of Award of this bid, execute a contract in the form specified and submit specified insurance certificates and Performance and Payment Bonds. The undersigned also agrees that the alternate prices on this proposal shall be valid and will not increase for a period of Twelve (12) months from the date of Bid opening. The undersigned also agrees that the unit prices on this proposal, if any, shall be valid and will not increase from the date of Bid opening through project completion.

The Bidder understands that the Owner specifically reserves the right to reject any and all Bids and to waive any informality therein.

The undersigned agrees to complete the work in accordance with the time period specified in the Standard Form of Agreement Between Owner and Contractor – AIA A101-2017.

Addendum Receipt: The receipt of the following addenda to the Specifications is acknowledged:

Addendum No. _____	Date _____	Addendum No. _____	Date _____
Addendum No. _____	Date _____	Addendum No. _____	Date _____
Addendum No. _____	Date _____	Addendum No. _____	Date _____
Addendum No. _____	Date _____	Addendum No. _____	Date _____

Contractor Qualification Form, shall be completed and delivered to the Construction Manager, by the two (2) low bidders of each bid package, within 48 hrs after the Bid opening, upon receiving the request for the submittals by the Construction Manager.

Dated _____, 20__

(Sign Bid Here) By:

Legal Business Address:

Legal name of person, partnership, or corporation

Name and Title

Street

City and State

Phone Number

Email

IF BIDDER IS A FIRM OR PARTNERSHIP, COMPLETE THE FOLLOWING:

Name of Members or Partners

Legal Residence

IF BIDDER IS A CORPORATION, COMPLETE THE FOLLOWING:

State of Incorporation: _____

Name and Title

Legal Residence

President

Vice President

Secretary

WAIVER OF IMMUNITY CLAUSE

The bidder hereby agrees to the provisions of the applicable General Municipal Law which requires that upon the refusal of person, when called before a grand Jury to testify concerning any transaction or contract had with the State, any political subdivision thereof, a public authority or with any public department, agency or official of the state or of any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract.

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

Individual

Corporation

Date _____ By: _____

AFFIRMATIVE ACTION AGREEMENT

Firm Name: _____

Business Address: _____

Telephone Number: _____

Non-discrimination Clauses:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color, or national origin and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, sex, color, or national origin. Such action shall be taken with reference, but not limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on-the-job training.
2. The Contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice, to be provided by the State of New York Equal Rights Division, advising such labor union or representative of the Contractor's agreement under clauses (1) through (7) (hereinafter called "non-discrimination clauses"). If the Contractor was directed to do so by the contracting agency as part of the bid or negotiation of this Contract, the Contractor shall request such labor union or representative to furnish him with a written statement that such labor union or representative will not discriminate because of race, creed, sex, color or national origin and that such labor union or representative either will affirmatively cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these non-discrimination clauses or that it consents and agrees that recruitment, employment and the terms and conditions of employment under this Contract shall be in accordance with the purposes and provisions of these non-discrimination clauses. If such labor union or representative fails or refuses to comply with such a request that it furnish such a statement, the Contractor shall promptly notify the State Commission for Human Rights of such failure or refusal.
3. The Contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the State of New York Equal Rights Division setting forth the substance of the provisions of clauses (1) and (2) and such provisions of the State's laws against discrimination as the State of New York Equal Rights Division shall determine.
4. The Contractor will state, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, sex, color, or national origin.
5. The Contractor will comply with all applicable local, state and federal non-discrimination laws will furnish all information and reports deemed necessary by the State of New York Equal Rights Division under these non-discrimination clauses and such sections of the Executive Law, and will permit access to his books, records and accounts by the State of New York Equal Rights Division,

the Attorney General and the New York Employment Relations Commission (WERC) for the purposes of investigation to ascertain compliance with these non-discrimination clauses and such sections of the Executive Law and Civil Rights Law.

6. This Contract may be forthwith canceled, terminated or suspended, in whole or in part, by the contracting agency upon the basis of a finding made by the State of New York Equal Rights Division that the Contractor has not complied with these non-discrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the state, until he satisfies the State of New York Equal Rights Division that he has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such finding shall be made by the State of New York Equal Rights Division after conciliation efforts by the New York Employment Relations Commission have failed to achieve compliance with these non-discrimination clauses and after a verified complaint has been filed with the New York Employment Relations Commission, notice thereof has been given to the Contractor and an opportunity has been afforded him to be heard publicly before members of the New York Employment Relations Commission. Such sanctions may be imposed and remedies invoked dependently of or in addition to sanctions and remedies otherwise provided by law.
7. The Contractor will include the provisions of clauses (1) through (6) in every subcontract or purchase order in such a manner that such provisions will be binding upon each subcontractor or vendor as to operations to be performed within the State of New York. The Contractor will take such action in enforcing such provisions of such subcontract or purchase order as the contracting agency may direct, including sanctions or remedies for non-compliance. If the Contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Contractor shall promptly so notify the Attorney General, requesting him to intervene and protect the interests of the State of New York.

Signature (Authorized): _____

Title: _____

BID PROPOSAL CERTIFICATIONS

Firm Name _____

Business Address _____

Telephone Number _____ Date of Bid _____

I. General Bid Certification

The bidder certifies that he will furnish, at the prices herein quoted, the materials, equipment, and/or services as proposed on this bid.

II. Non-Collusive Bidding Certifications

By submission of this bid proposal, the bidder also certifies compliance with the following:

Statement of non-collusion in bids and proposals to political subdivision of the state. Every bid or proposal hereafter made to a political subdivision of the state or any public department, agency or official thereof where competitive bidding is required by statute, rule, regulation, or local law, 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 penalties of perjury: Non-collusive bidding certification.

(a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

(1) The prices in this bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or 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 to any competitor; and

(4) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition. (b) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) and (3) above have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) above have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting completions.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or

revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning subparagraph one (a).

2. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work of services performed or to be performed or goods sold or not to be sold, where competitive bidding is required by statute, rule, regulation, or local law, and where such bid contains the certification referred to in subdivision one of the section, shall be deemed to have been authorized by the board of directors of the bidder, and such authorization shall be deemed the board of directors of the bidder, and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

III. Schedule Acknowledgement Certification

The bidder certifies, that he acknowledges that time is the essence of the project schedule as outlined in specification section 011200 Multiple Contract Summary and they have formally confirmed all specified materials and equipment will be procured and installed within the stipulated project schedule or be subject to liquidated damages as specified.

Signature (Authorized) _____

Title _____

WOMEN/MINORITY OWNED BUSINESS ENTERPRISES

NEW YORK STATE LAW

In 2006, the State of New York commissioned a disparity study to evaluate whether minority and women-owned business enterprises had a full and fair opportunity to participate in state contracting. The findings of the study were published on April 29, 2010, under the title "The State of Minority and Women-Owned Business Enterprises: Evidence from New York" ("Disparity Study"). The report found evidence of statistically significant disparities between the level of participation of minority-and women-owned business enterprises in state procurement contracting versus the number of minority-and women-owned business enterprises that were ready, willing and able to participate in state procurements. As a result of these findings, the Disparity Study made recommendations concerning the implementation and operation of the statewide certified minority- and women-owned business enterprises program. The recommendations from the Disparity Study culminated in the enactment and the implementation of New York State Executive Law Article 15-A, which requires, among other things, that DOS establishes goals for maximum feasible participation of New York State Certified minority- and women – owned business enterprises ("MWBE") and the employment of minority groups members and women in the performance of New York State contracts.

In order to meet state established Women/Minority-Owned Business Enterprises goals, the contractor must document good faith efforts to provide meaningful participation by MWBEs as contractors, subcontractors or suppliers in the performance of the Contract and Contractor agrees that Wendel may withhold payment pending receipt of the required MWBE documentation. The Contractor is required to complete and submit the MWBE Utilization Plan with their bid.

Contractors must submit the Monthly MWBE Contractor Compliance Report each month during the term of the contract for the preceding month's activity, documenting progress made towards achievement of the contract MWBE goals. Wendel requires that all Contractors use the New York State Contract System ("NYSCS") to report subcontractor and supplier payments made by Contractor to MWBEs performing work under the Contract. The NYSCS may be accessed at <https://ny.newnycontracts.com/>.

Please note that the Contractor Compliance Report must be submitted every month with the Contractor's Application for Payment. If there is no MWBE utilization in a given month, the report must be submitted reflecting a \$0 value.

MBE UTILIZATION PLAN – FORM A
MINORITY OWNED BUSINESS ENTERPRISE (MBE) INFORMATION

In order to achieve the MBE Goals, grantee expects to subcontract/purchase with New York State certified MINORITY-OWNED entities as follows: (add additional pages as needed)

MBE Firm (Exactly as Registered)	Description of Work (Products/Services) [MBE]	Projected MBE Expenditure Amount
Name Address City, State, ZIP Employer I.D. Telephone Number () -		\$ _____
Name Address City, State, ZIP Employer I.D. Telephone Number () -		\$ _____
Name Address City, State, ZIP Employer I.D. Telephone Number () -		\$ _____

WBE UTILIZATION PLAN – FORM B
WOMEN OWNED BUSINESS ENTERPRISE (WBE) INFORMATION

In order to achieve the MBE Goals, grantee expects to subcontract/purchase with New York State certified WOMEN-OWNED entities as follows: (add additional pages as needed)

WBE Firm (Exactly as Registered)	Description of Work (Products/Services) [WBE]	Projected WBE Expenditure Amount
Name Address City, State, ZIP Employer I.D. Telephone Number () -		\$ _____
Name Address City, State, ZIP Employer I.D. Telephone Number () -		\$ _____
Name Address City, State, ZIP Employer I.D. Telephone Number () -		\$ _____

SECTION 012100 - ALLOWANCES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract including General and Supplementary Conditions and other Division 01 Specification Sections apply to this Section.

1.02 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor by the Architect and Construction Manager. Additional requirements will be issued by Change Order, if any, by the Architect and Construction Manager.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.
 - 2. Unit-cost allowances.
 - 3. Quantity allowances.
 - 4. Contingency allowances.
 - 5. Testing and inspecting allowances.

1.03 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, inform Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At the Architect and Construction Manager's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.04 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.

1.05 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.

- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.06 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.07 LUMP-SUM, UNIT-COST, and QUANTITY ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by the Architect under allowance and shall include taxes and freight and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials selected by Architect under allowance shall be included as part of the Contract Sum and not as part of the allowance.
- C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 - 1. If requested by Construction Manager, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

1.08 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect and Construction Manager for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.
- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins.
- D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.09 TESTING AND INSPECTING ALLOWANCES

- A. Testing and inspecting allowances include the cost of engaging testing agencies, actual tests and inspections, and reporting results.
- B. The allowance does not include incidental labor required to assist the testing agency or costs for retesting if previous tests and inspections result in failure. The cost for incidental labor to assist the testing agency shall be included in the Contract Sum.
- C. Costs of services not required by the Contract Documents are not included in the allowance.

- D. At Project closeout, credit unused amounts remaining in the testing and inspecting allowance to Owner by Change Order.

1.10 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, submit a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
 - 1. Include installation costs in purchase amount only where indicated as part of the allowance.
 - 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other margins claimed.
 - 3. Submit substantiation of a change in scope of work, if any, claimed in Change Orders related to unit-cost allowances.
 - 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measurement or count.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
 - 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.
 - 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.02 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.03 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1 - Winter Conditions: LUMP-SUM Allowance: The General Contractor shall include the sum of \$200,000.00 for winter conditions. This allowance includes Temporary heat, blanketing, ground thaw and heated water (for concrete mix) for concrete foundation activities only. All other winter condition scope shall be included in the base bid of each contractor, refer to section 015000 Temporary Facilities and Controls.

1. This allowance includes equipment, material cost, receiving, handling, and installation, and Contractor overhead and profit .
 2. Coordinate quantity allowance adjustment with corresponding unit-price requirements in Section 012200 "Unit Prices."
 3. Any unused portion of this Allowance shall be returned to the Owner in the form of a credit change order at the conclusion of the project.
- B. Allowance No. 2-Geothermal System: LUMP-SUM Allowance: The HVAC Contractor shall include the sum of \$500,000.00 for the delegated design, materials, labor and equipment to install the geothermal system as detailed in the contract documents.
1. This allowance includes the delegated design, equipment, material cost, receiving, handling, and installation, and Contractor overhead and profit .
 2. Any unused portion of this Allowance shall be returned to the Owner in the form of a credit change order at the conclusion of the project.
- C. Allowance No. 3- Communication/911 backbone system: LUMP-SUM Allowance: The Electrical Contractor shall include the sum of \$45,000.00 for .the materials, labor and equipment to install all conduit and boxes and misc. hardware to create a backbone system for the Owner supplied communication and 911 systems.
1. This allowance includes equipment, material cost, receiving, handling, and installation, and Contractor overhead and profit .
 2. Any unused portion of this Allowance shall be returned to the Owner in the form of a credit change order at the conclusion of the project.

END OF SECTION 012100

SECTION 271000 - STRUCTURED CABLING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Communications system design requirements.
- B. Communications pathways.
- C. Copper cable and terminations.
- D. Fiber optic cable and interconnecting devices.
- E. Communications equipment room fittings.
- F. Communications outlets.
- G. Communications grounding and bonding.
- H. Communications identification.

1.02 RELATED REQUIREMENTS

- A. Section 260526 - Grounding and Bonding for Electrical Systems.
 - 1. Includes intersystem bonding termination.
 - 2. Includes bonding jumpers for bonding of communications systems and electrical system grounding.
- B. Section 260533.16 - Boxes for Electrical Systems.
- C. Section 260553 - Identification for Electrical Systems: Identification products.
- D. Section 262726 - Wiring Devices.
- E. Section 270529 - Hangers and Supports for Communications Systems.
- F. Section 270533.13 - Conduit for Communications Systems.

1.03 REFERENCE STANDARDS

- A. BICSI N1 - Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure, 1st Edition.
- B. EIA/ECA-310 - Cabinets, Racks, Panels, and Associated Equipment.
- C. ICEA S-83-596 - Indoor Optical Fiber Cable.
- D. NFPA 70 - National Electrical Code.
- E. TIA-455-21 - FOTP-21 - Mating Durability of Fiber Optic Interconnecting Devices.

- F. TIA-492AAAC - Detail Specification for 850-nm Laser-Optimized, 50-um Core Diameter/125-um Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers.
- G. TIA-526-7 - Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant, Adoption of IEC 61280-4-2 Edition 2: Fibre-Optic Communications Subsystem Test Procedures – Part 4-2: Installed Cable Plant – Single-Mode Attenuation and Optical Return Loss Measurement.
- H. TIA-526-14 - Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant; IEC 61280-4.1 Edition 3.1, Fiber Optic Communications Subsystem Test Procedures- Part 4-1: Installed Cable Plant- Multimode Attenuation Measurement.
- I. TIA-568 (SET) - Commercial Building Telecommunications Cabling Standard Set.
- J. TIA-568.2 - Balanced Twisted-Pair Telecommunications Cabling and Components Standards.
- K. TIA-568.3 - Optical Fiber Cabling and Components Standard.
- L. TIA-569 - Telecommunications Pathways and Spaces.
- M. TIA-598 - Optical Fiber Cable Color Coding.
- N. TIA-606 - Administration Standard for Telecommunications Infrastructure.
- O. TIA-607 - Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises.
- P. UL 444 - Communications Cables.
- Q. UL 514C - Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers.
- R. UL 1651 - Fiber Optic Cable.
- S. UL 1863 - Communications-Circuit Accessories.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate requirements for service entrance and entrance facilities with Communications Service Provider.
 - 2. Coordinate the work with other trades to avoid placement of other utilities or obstructions within the spaces dedicated for communications equipment.
 - 3. Coordinate arrangement of communications equipment with the dimensions and clearance requirements of the actual equipment to be installed.
 - 4. Notify Engineer of Record of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.
- B. Arrange for Communications Service Provider to provide service.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product.

- C. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.
- D. Field Test Reports.

1.06 QUALITY ASSURANCE

- A. Products: Listed, classified, and labeled as suitable for the purpose intended.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Keep stored products clean and dry.

1.08 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a 2 year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 SYSTEM DESIGN

- A. Provide a complete permanent system of cabling and pathways for voice and data communications, including cables, conduits and wireways, pull wires, support structures, enclosures and cabinets, and outlets.
 - 1. Comply with TIA-568 (SET) (cabling) and TIA-569 (pathways) (commercial standards).
 - 2. Comply with Communications Service Provider requirements.
 - 3. Provide fixed cables and pathways that comply with NFPA 70 and TIA-607 and are UL listed or third party independent testing laboratory certified.
 - 4. Provide connection devices that are rated for operation under conditions of 32 to 140 degrees F at relative humidity of 0 to 95 percent, noncondensing.
 - 5. In this project, the term plenum is defined as return air spaces above ceilings, inside ducts, under raised floors, and other air-handling spaces.
- B. Main Distribution Frame (MDF): Centrally located support structure for terminating horizontal cables that extend to telecommunications outlets, functioning as point of presence to external service provider.
 - 1. Locate main distribution frame as indicated on the drawings.
- C. Backbone Cabling: Cabling, pathways, and terminal hardware connecting intermediate distribution frames (IDF's) with main distribution frame (MDF), wired in star topology with main distribution frame at center hub of star.
- D. Cabling to Outlets: Specified horizontal cabling, wired in star topology to distribution frame located at center hub of star; also referred to as "links".

2.02 PATHWAYS

- A. Conduit: See section 270533.13.
- B. Firestop Sleeves: Listed; provide as required to preserve fire resistance rating of building elements.

2.03 COPPER CABLE AND TERMINATIONS

- A. Copper Horizontal Cable:
 - 1. Description: 100 ohm, balanced twisted pair cable complying with TIA-568.2 and listed and labeled as complying with UL 444.
 - 2. Cable Type - Voice and Data: TIA-568.2 Category 6 UTP (unshielded twisted pair); 23 AWG.
 - 3. Cable Capacity: 4-pair.
 - 4. Cable Applications: Use listed NFPA 70 Type CMP plenum cable unless otherwise indicated.
 - 5. Cable Applications:
 - a. Plenum Applications: Use listed NFPA 70 Type CMP plenum cable.
 - b. Riser Applications: Use listed NFPA 70 Type CMR riser cable or Type CMP plenum cable.
 - c. General Purpose Applications: Use listed NFPA 70 Type CM/CMG general purpose cable, Type CMR riser cable, or Type CMP plenum cable.
 - 6. Cable Jacket Color - _____ Data Cable: Blue.
- B. Copper Cable Terminations: Insulation displacement connection (IDC) type using appropriate tool; use screw connections only where specifically indicated.
- C. Jacks and Connectors: Modular RJ-45, non-keyed, terminated with 110-style insulation displacement connectors (IDC); high impact thermoplastic housing; suitable for and complying with same standard as specified horizontal cable; UL 1863 listed.
 - 1. Performance: 500 mating cycles.
 - 2. Voice and Data Jacks: 8-position modular jack, color-coded for both T568A and T568B wiring configurations.
- D. Copper Patch Cords:
 - 1. Description: Factory-fabricated 4-pair cable assemblies with 8-position modular connectors terminated at each end.
 - 2. Patch Cords for Patch Panels:
 - a. Quantity: One for each pair of patch panel ports.
 - b. Length: _____ feet.

2.04 FIBER OPTIC CABLE AND INTERCONNECTING DEVICES

- A. Fiber Optic Backbone Cable:
 - 1. Description: Tight buffered, non-conductive fiber optic cable complying with TIA-568.3, TIA-598, ICEA S-83-596 and listed as complying with UL 444 and UL 1651.
 - 2. Cable Type: Multimode, laser-optimized 50/125 um (OM3) complying with TIA-492AAAC.
 - 3. Cable Capacity: Quantity of fibers as indicated on drawings.
 - 4. Cable Applications:
 - a. Plenum Applications: Use listed NFPA 70 Type OFNP plenum cable.

5. Cable Jacket Color:

B. Fiber Optic Horizontal Cable:

1. Description: Tight buffered, non-conductive fiber optic cable complying with TIA-568.3, ICEA S-83-596 and listed as complying with UL 444 and UL 1651.
 2. Cable Type: Multimode, laser-optimized 50/125 um (OM3) complying with TIA-492AAAC.
 3. Cable Capacity: 2-fiber.
 4. Cable Applications:
 - a. Plenum Applications: Use listed NFPA 70 Type OFNP plenum cable.
 5. Cable Jacket Color:
 - a. Laser-Optimized Multimode Fiber (OM3/OM4): Aqua.
 - b. Multimode Fiber (OM1/OM2): Orange.
 - c. Single-Mode Fiber (OS1/OS2): Yellow.
- C. Fiber Optic Interconnecting Devices:
1. Connector Type: Type LC.
 2. Connector Performance: 500 mating cycles, when tested in accordance with TIA-455-21.
 3. Maximum Attenuation/Insertion Loss: 0.3 dB.

2.05 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

A. Copper Cross-Connection Equipment:

1. Patch Panels for Copper Cabling: Sized to fit EIA/ECA-310 standard 19 inch wide equipment racks; 0.09 inch thick aluminum; cabling terminated on Type 110 insulation displacement connectors; printed circuit board interface.
 - a. Jacks: Non-keyed RJ-45, suitable for and complying with same standard as cable to be terminated; maximum 48 ports per standard width panel.
 - b. Capacity: Provide ports sufficient for cables to be terminated plus 25 percent spare.
 - c. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606.
 - d. Provide incoming cable strain relief and routing guides on back of panel.

B. Backboards: Interior grade plywood without voids, 3/4 inch thick; UL-labeled fire-retardant.

1. Size: As indicated on drawings.
2. Do not paint over UL label.

C. Equipment Frames, Racks and Cabinets:

1. Component Racks: EIA/ECA-310 standard 19 inch wide.
2. Floor Mounted Racks: Aluminum or steel construction with corrosion resistant finish; vertical and horizontal cable management channels, top and bottom cable troughs, and grounding lug.

D. Cable Management:

1. Product(s):

2.06 COMMUNICATIONS OUTLETS

A. Outlet Boxes: Comply with Section 260533.16.

1. Provide depth as required to accommodate cable manufacturer's recommended minimum conductor bend radius.

2. Minimum Size, Unless Otherwise Indicated:
 - a. Data or Combination Voice/Data Outlets: 4 inch square by 2-1/8 inch deep (100 by 54 mm) trade size.

- B. Wall Plates:
 1. Comply with system design standards and UL 514C.
 2. Accepts modular jacks/inserts.
 3. Capacity:
 4. Wall Plate Material/Finish - Flush-Mounted Outlets: Match wiring device and wall plate finishes specified in Section 262726.

2.07 GROUNDING AND BONDING COMPONENTS

- A. Comply with TIA-607.
- B. Comply with Section 260526.

2.08 IDENTIFICATION PRODUCTS

- A. Comply with TIA-606.

2.09 SOURCE QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for additional requirements.
- B. Factory test cables according to TIA-568 (SET).

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

- A. Comply with latest editions and addenda of TIA-568 (SET) (cabling), TIA-569 (pathways), TIA-607 (grounding and bonding), BICSI N1, NFPA 70, and SYSTEM DESIGN as specified in PART 2.
- B. Comply with Communication Service Provider requirements.
- C. Grounding and Bonding: Perform in accordance with TIA-607 and NFPA 70.

3.02 INSTALLATION OF PATHWAYS

- A. Install pathways with the following minimum clearances:
 1. 48 inches from motors, generators, frequency converters, transformers, x-ray equipment, and uninterruptible power systems.
 2. 12 inches from power conduits and cables and panelboards.
 3. 5 inches from fluorescent and high frequency lighting fixtures.
 4. 6 inches from flues, hot water pipes, and steam pipes.
- B. Minimum Cover - Underground Service Entrance: Comply with NFPA 70 and Communications Service Provider requirements.
- C. Outlet Boxes:

1. Coordinate locations of outlet boxes provided under Section 260533.16 as required for installation of telecommunications outlets provided under this section.
 - a. Mounting Heights: Unless otherwise indicated, as follows:
 - 1) Telephone and Data Outlets: 18 inches above finished floor.

3.03 INSTALLATION OF EQUIPMENT AND CABLING

- A. Cabling:
 1. Do not bend cable at radius less than manufacturer's recommended bend radius; for unshielded twisted pair use bend radius of not less than 4 times cable diameter.
 2. Do not over-cinch or crush cables.
 3. Do not exceed manufacturer's recommended cable pull tension.
 4. When installing in conduit, use only lubricants approved by cable manufacturer and do not chafe or damage outer jacket.
- B. Service Loops (Slack or Excess Length): Provide the following minimum extra length of cable, looped neatly:
 1. At Distribution Frames: 120 inches.
 2. At Outlets - Copper: 12 inches.
 3. At Outlets - Optical Fiber: 39 inches.
- C. Copper Cabling:
 1. Category 5e and Above: Maintain cable geometry; do not untwist more than 1/2 inch from point of termination.
 2. For 4-pair cables in conduit, do not exceed 25 pounds pull tension.
 3. Use T568B wiring configuration.
- D. Fiber Optic Cabling:
 1. Prepare for pulling by cutting outer jacket for 10 inches from end, leaving strength members exposed. Twist strength members together and attach to pulling eye.
 2. Support vertical cable at intervals as recommended by manufacturer.
- E. Floor-Mounted Racks and Enclosures: Permanently anchor to floor in accordance with manufacturer's recommendations.
- F. Identification:
 1. Use wire and cable markers to identify cables at each end.
 2. Use manufacturer-furnished label inserts, identification labels, or engraved wallplate to identify each jack at communications outlets with unique identifier.
 3. Use identification nameplate to identify cross-connection equipment, equipment racks, and cabinets.

3.04 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for additional requirements.
- B. Comply with inspection and testing requirements of specified installation standards.
- C. Visual Inspection:
 1. Inspect cable jackets for certification markings.
 2. Inspect cable terminations for color coded labels of proper type.
 3. Inspect outlet plates and patch panels for complete labels.

- D. Testing - Copper Cabling and Associated Equipment:
 - 1. Test backbone cables after termination but before cross-connection.
- E. Testing - Fiber Optic Cabling:
 - 1. Backbone: Perform optical fiber end-to-end attenuation test using an optical time domain reflectometer (OTDR) and manufacturer's recommended test procedures; perform verification acceptance tests and factory reel tests.
 - 2. Multimode Backbone: Perform tests in accordance with TIA-526-14.
 - 3. Single Mode Backbone: Perform tests in accordance with TIA-526-7.
- F. Final Testing: After all work is complete, including installation of telecommunications outlets, and telephone dial tone service is active, test each voice jack for dial tone.

END OF SECTION 271000

SECTION 281000 - ACCESS CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Access control system requirements.
- B. Access control units and software.
- C. Access control point peripherals, including readers and keypads.
- D. Accessories.

1.02 RELATED REQUIREMENTS

- A. Section 087100 - Door Hardware: Electrically operated door hardware, for interface with access control system.
- B. Section 260526 - Grounding and Bonding for Electrical Systems.
- C. Section 260533.13 - Conduit for Electrical Systems.
- D. Section 260553 - Identification for Electrical Systems: Identification products and requirements.
- E. Section 271000 - Structured Cabling: Data cables for access control system IP network connections.
- F. Section 282000 - Video Surveillance: For interface with access control system.
- G. Section 284600 - Fire Detection and Alarm: For interface with access control system.

1.03 DEFINITIONS

- A. Access Control Cloud Services: Subscription-based hosted application utilizing Software as a Service (SaaS) delivery model in lieu of on-premises servers/software.

1.04 REFERENCE STANDARDS

- A. NECA 1 - Standard for Good Workmanship in Electrical Construction.
- B. NFPA 70 - National Electrical Code.
- C. UL 294 - Access Control System Units.

1.05 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate the work with other installers to provide suitable door hardware as required for both access control functionality and code compliance.

2. Coordinate the placement of readers with millwork, furniture, equipment, etc. installed under other sections or by others.
3. Coordinate the work with other installers to provide power for equipment at required locations.
4. Notify Engineer of Record of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Access Control Cloud Services:

C. Preinstallation Meetings:

1. Conduct meeting with facility representative to review reader and equipment locations.

1.06 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.
- C. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
- D. Design Data: Standby battery/UPS calculations.
- E. Evidence of qualifications for manufacturer.
- F. Evidence of qualifications for installer.
- G. Project Record Documents: Record actual locations of system components and installed wiring arrangements and routing.
- H. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.
- I. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in Owner's name and registered with manufacturer.
- J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 1. See Section 016000 - Product Requirements, for additional provisions.

1.07 QUALITY ASSURANCE

- A. Comply with the following:
 1. NFPA 70.
 2. The requirements of the local authorities having jurisdiction.
 3. Applicable TIA/EIA standards.
- B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.

- C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- D. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.
- B. Store products in manufacturer's unopened packaging, keep dry and protect from damage until ready for installation.

1.09 FIELD CONDITIONS

- A. Maintain field conditions within manufacturer's required service conditions during and after installation.

1.10 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Access Control Units - Basis of Design: Brivo.
- B. Access Control Software - Basis of Design: Brivo.
- C. Access Control Cloud Services - Basis of Design: Brivo.
- D. Readers and Keypads - Basis of Design: Brivo, as indicated under product descriptions below ; www.brivo.com/#sle.
- E. Readers and Keypads - Basis of Design: Brivo.

2.02 ACCESS CONTROL SYSTEM REQUIREMENTS

- A. Provide new access control system consisting of required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.
- B. System Battery Backup: Provide batteries/uninterruptible power supplies (UPS) as required 15 minutes.
- C. Surge Protection:
- D. Access Control Points:

1. See article "ACCESS CONTROL POINT PERIPHERALS" below for device descriptions.
- E. Computers Required:
1. See article "ACCESS CONTROL UNITS AND SOFTWARE" below for product descriptions.
 2. Server(s):
 - a. Quantity: One.
 - b. Location(s): To be determined.
 - c. Peripherals required for each server:
 - 1) Mouse and keyboard.
 - 2) Monitor(s): One.
- F. Interface with Other Systems:
1. Provide products compatible with other systems requiring interface with access control system.
 2. Interface with electrically operated door hardware as specified in Section 087100.
 - a. Capable of locking/unlocking/releasing controlled doors.
 - b. Capable of receiving input from integral door hardware switches.
 3. Interface with fire alarm system as specified in Section 284600.
- G. Provide products listed, classified, and labeled as suitable for the purpose intended.
1. Access Control Units and Readers: Listed and labeled as complying with UL 294.

2.03 ACCESS CONTROL UNITS AND SOFTWARE

- A. Provide access control units and software compatible with readers to be connected.
- B. Unless otherwise indicated, provide software and licenses required for fully operational system.
- C. Access Control Cloud Services - Basis of Design: Brivo Onair; www.brivo.com/#sle.
1. Capacity: Unlimited cardholders; unlimited doors, readers, and administrators; unlimited workstations; unlimited events (viewable for 365 days); 60 custom fields.
 2. Communication: Supports TLS1.2+ authentication with AES256 encryption.
 3. Mobile Credentials: Supports Brivo Mobile Pass mobile application.
 - a. Standard Mode: Enables user to select from list of authorized doors; supports Brivo smart readers, other compatible readers, and doors without readers.
 - b. Magic Button: Enables automatic selection of reader closest to user; supports Brivo smart readers.
 - c. Biometric Authentication: Utilizes mobile device biometric scanning capabilities.
 4. Features: Anti-passback; text/email event notifications; elevator control (up to 118 floors per reader); mobile administration application.
- D. Access Control Unit - Basis of Design: Brivo ACS6000 Control Panel (for Brivo Onair); www.brivo.com/#sle.
1. Quantity of Credentials Supported: Unlimited when connected to Brivo Onair; 250,000 when offline.
 2. Quantity of Readers Supported: Two onboard (Wiegand or RS-485 OSDP); up to 30 total utilizing up to 14 expansion door boards.
 3. Event History: 60,000 events when offline.
 4. Inputs: Eight onboard (two door position, two request-to-exit, and four auxiliary); up to 120 total utilizing up to 14 expansion boards.

5. Output Relays: Six onboard (two lock-switching and four auxiliary); up to 118 total utilizing up to 14 expansion boards.
6. Communication: Ethernet or Wi-Fi; supports TLS1.2+ authentication with AES256 encryption.

2.04 ACCESS CONTROL POINT PERIPHERALS

- A. Provide devices compatible with control units and software.
- B. Provide devices suitable for operation under the service conditions at the installed location.
- C. Readers and Keypads:
 1. General Requirements:
 - a. Provide readers compatible with credentials to be used.
 - b. Color: To be selected by Architect from manufacturer's available standard colors.
 - c. Contactless Smart Card Readers:
 - 1) Utilize 13.56 MHz RF communication with compatible credentials.
 - 2) Utilize 64 bit authentication keys.
 - 3) Support ISO compliant credentials.
 - 4) Support data encryption.
 - d. Proximity Readers:
 - 1) Utilize 125 kHz RF communication with compatible credentials.
- D. Door Locking Devices (Electric Strikes and Magnetic Locks): Comply with Section 087100.

2.05 ACCESSORIES

- A. Provide components as indicated or as required for connection of access control system to devices and other systems indicated.
- B. Unless otherwise indicated, credentials to be provided by Contractor.
 1. Provide credentials compatible with readers and control units/software to be used.
- C. Provide cables as indicated or as required for connections between system components.
 1. Data Cables for IP Network Connections: Unshielded twisted pair (UTP), _____, complying with Section 271000.
- D. Provide accessory racks/cabinets as indicated or as required for equipment mounting.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that ratings and configurations of system components are consistent with the indicated requirements.
- C. Verify that mounting surfaces are ready to receive system components.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system.

- E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install access control system in accordance with NECA 1 (general workmanship).
- B. Install products in accordance with manufacturer's instructions.
- C. Wiring Method: Unless otherwise indicated, use cables (not in conduit).
 - 1. Use suitable listed cables in wet locations, including underground raceways.
 - 2. Use suitable listed cables for vertical riser applications.
 - 3. Use listed plenum rated cables in spaces used for environmental air.
 - 4. Install wiring in conduit for the following:
 - a. Where required for rough-in.
 - b. Where required by authorities having jurisdiction.
 - c. Where exposed to damage.
 - d. Where installed outside the building.
 - e. For exposed connections from outlet boxes to devices.
 - 5. Conduit: Comply with Section 260533.13.
 - 6. Conceal cables unless specifically indicated to be exposed.
 - 7. Use power transfer hinges complying with Section 087100 for concealed connections to door hardware.
 - 8. Route exposed cables parallel or perpendicular to building structural members and surfaces.
 - 9. Do not exceed manufacturer's recommended maximum cable length between components.
- D. Provide grounding and bonding in accordance with Section 260526.
- E. Identify system wiring and components in accordance with Section 260553.

3.03 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for additional requirements.
- B. Prepare and start system in accordance with manufacturer's instructions.
- C. Program system parameters according to requirements of Owner.
- D. Test for proper interface with other systems.
- E. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.04 CLEANING

- A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.05 CLOSEOUT ACTIVITIES

- A. Training: Train Owner's personnel on operation, adjustment, and maintenance of system.

1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
2. Provide minimum of four hours of training.
3. Location: At project site.

3.06 PROTECTION

- A. Protect installed system components from subsequent construction operations.

3.07 MAINTENANCE

- A. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.
- B. Provide trouble call-back service upon notification by Owner:
 1. Include allowance for call-back service during normal working hours at no extra cost to Owner.
 2. Owner will pay for call-back service outside of normal working hours on an hourly basis, based on actual time spent at site and not including travel time; include hourly rate and definition of normal working hours in maintenance contract.

END OF SECTION 281000

AIA® Document A101® – 2017

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of in the year
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

City of Ithaca
108 E. Green Street
Ithaca, NY 14850

and the Contractor:
(Name, legal status, address and other information)

for the following Project:
(Name, location and detailed description)

Ithaca Fire Station
403 Elmwood Avenue
Ithaca, NY 14850

Wendel Project No. 618601

The Architect:
(Name, legal status, address and other information)

Mitchell Associates Architects, PLLC
29 Thacher Road
Voorheesville, NY 12186

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101®–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201®–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 4 CONTRACT SUM
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 TERMINATION OR SUSPENSION
- 8 MISCELLANEOUS PROVISIONS
- 9 ENUMERATION OF CONTRACT DOCUMENTS

EXHIBIT A INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be:

(Check one of the following boxes.)

- ☐ The date of this Agreement.
- ☒ A date set forth in a notice to proceed issued by the Owner.
- ☐ Established as follows:
(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

(Check one of the following boxes and complete the necessary information.)

[] Not later than () calendar days from the date of commencement of the Work.

[X] By the following date: January 17, 2025 and Final Completion of the entire Work by February 14, 2025

§ 3.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

Portion of Work	Substantial Completion Date
-----------------	-----------------------------

§ 3.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be (\$), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price
------	-------

§ 4.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner following execution of this Agreement. Upon acceptance, the Owner shall issue a Modification to this Agreement.
(Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item	Price	Conditions for Acceptance
------	-------	---------------------------

§ 4.3 Allowances, if any, included in the Contract Sum:
(Identify each allowance.)

Item	Price
------	-------

§ 4.4 Unit prices, if any:

(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit (\$0.00)
------	-----------------------	-------------------------

§ 4.5 Liquidated damages, if any:

(Insert terms and conditions for liquidated damages, if any.)

The Owner and Contractor recognize that time is of the essence and that the Owner will suffer financial loss if the work is not complete within the times specified in the Contract. If the Contractor fails to achieve Substantial Completion July 4, 2024, the Owner and Contractor agree that as liquidated damages, and not as a penalty for delay in performance, the Contractor shall pay the Owner in the amount of five hundred dollars (\$500.00) for each and every working day that expires beyond the agreed upon date for Substantial completion and that the Owner shall have the right to deduct liquidated damages from any amount due or that may become due to the Contractor, or to collect such liquidated damages from the Contractor or its Surety. The Owner has the option to enforce such liquidated damages or to waive such damages.

§ 4.6 Other:

(Insert provisions for bonus or other incentives, if any, that might result in a change to the Contract Sum.)

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the 25th day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the 25th day of the following month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than Thirty (30) days after the Architect receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 In accordance with AIA Document A201™–2017, General Conditions of the Contract for Construction, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 5.1.6.1 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- .1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of Five (5%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201™–2017, General Conditions of the Contract for Construction;
- .2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of Five (5%);
- .3 Subtract the aggregate of previous payments made by the Owner; and
- .4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201–2017.

§ 5.1.6.2 The progress payment amount determined in accordance with Section 5.1.6 herein shall be further modified under the following circumstances:

- .1 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and
(Section 9.8.5 of AIA Document A201–2017 requires release of applicable retainage upon Substantial Completion of Work with consent of surety, if any.)

(Paragraph deleted)

- .2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201–2017.

(Paragraphs deleted)

§ 5.1.7. Reduction or limitation of retainage, if any, shall be as follows:

(If the retainage established in Section 5.1.6.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)

§ 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201–2017.

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A201–2017, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment has been issued by the Architect.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

§ 5.3 Interest

Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

(Insert rate of interest agreed upon, if any.)

%

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

The Architect will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201–2017, unless the parties appoint below another individual, not a party to this Agreement, to serve as the Initial Decision Maker.

Init.

(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

Mitchell Associates Architects, PLLC
29 Thatcher Road
Voorheesville, NY 12186

§ 6.2 Binding Dispute Resolution

For any Claim subject to, but not resolved by, mediation pursuant to Article 15 of AIA Document A201–2017, the method of binding dispute resolution shall be as follows:

(Check the appropriate box.)

- ☐ Arbitration pursuant to Section 15.4 of AIA Document A201–2017
- ☒ Litigation in a court of competent jurisdiction
- ☐ Other *(Specify)*

If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017.

§ 7.1.1 If the Contract is terminated for the Owner's convenience in accordance with Article 14 of AIA Document A201–2017, then the Owner shall pay the Contractor a termination fee as follows:

(Insert the amount of, or method for determining, the fee, if any, payable to the Contractor following a termination for the Owner's convenience.)

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's representative:

(Name, address, email address, and other information)

Wendel Construction, Inc.
427 New Karner Road
Albany, NY 12205

§ 8.3 The Contractor's representative:

(Name, address, email address, and other information)

§ 8.4 Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in AIA Document A101™-2017, Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, Exhibit A, Insurance and Bonds, and elsewhere in the Contract Documents.

§ 8.5.2 The Contractor shall provide bonds as set forth in AIA Document A101™-2017 Exhibit A, and elsewhere in the Contract Documents.

§ 8.6 Other provisions:

(Paragraphs deleted)

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

- .1 AIA Document A101™-2017, Standard Form of Agreement Between Owner and Contractor
- .2 AIA Document A101™-2017, Exhibit A, Insurance and Bonds
- .3 AIA Document A201™-2017, General Conditions of the Contract for Construction
- .4

.4 Drawings

Number

Title

Date

Bid Plans

April 3, 2023

.6 Specifications

Section

Title

Date

Pages

Project Manual

April 3, 2023

.7 Addenda, if any:

Number

Date

Pages

Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are also enumerated in this Article 9.

.8 Other Exhibits:

(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

[] AIA Document E204™-2017, Sustainable Projects Exhibit, dated as indicated below:

Init.

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User Notes:

(1349676405)

(Insert the date of the E204-2017 incorporated into this Agreement.)

[] The Sustainability Plan:

Title	Date	Pages
-------	------	-------

[] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
----------	-------	------	-------

.9 Other documents, if any, listed below:

(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201™-2017 provides that the advertisement or invitation to bid, Instructions to Bidders, sample forms, the Contractor's bid or proposal, portions of Addenda relating to bidding or proposal requirements, and other information furnished by the Owner in anticipation of receiving bids or proposals, are not part of the Contract Documents unless enumerated in this Agreement. Any such documents should be listed here only if intended to be part of the Contract Documents.)

Scope Review Meeting Minutes

This Agreement entered into as of the day and year first written above.

OWNER (Signature)

CONTRACTOR (Signature)

(Printed name and title)

(Printed name and title)

Init.

Additions and Deletions Report for

AIA® Document A101® – 2017

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 13:32:54 ET on 09/13/2023.

PAGE 1

City of Ithaca
108 E. Green Street
Ithaca, NY 14850

...

Ithaca Fire Station
403 Elmwood Avenue
Ithaca, NY 14850

Wendel Project No. 618601

...

Mitchell Associates Architects, PLLC
29 Thacher Road
Voorheesville, NY 12186

PAGE 2

☒ A date set forth in a notice to proceed issued by the Owner.

PAGE 3

☒ By the following date: January 17, 2025 and Final Completion of the entire Work by February 14, 2025

...

The Owner and Contractor recognize that time is of the essence and that the Owner will suffer financial loss if the work is not complete within the times specified in the Contract. If the Contractor fails to achieve Substantial Completion July 4, 2024, the Owner and Contractor agree that as liquidated damages, and not as a penalty for delay in performance, the Contractor shall pay the Owner in the amount of five hundred dollars (\$500.00) for each and every working day that expires beyond the agreed upon date for Substantial completion and that the Owner shall have the right to deduct liquidated damages from any amount due or that may become due to the Contractor, or to collect such liquidated damages from the Contractor or its Surety. The Owner has the option to enforce such liquidated damages or to waive such damages.

PAGE 4

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the 25th day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the 25th day of the following month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than Thirty (30) days after the Architect receives the Application for Payment.

...

§ 5.1.6.1 ~~The Subject to other provisions of the Contract Documents, the amount of each progress payment shall first include: be computed as follows:~~

- ~~.1 That Take that portion of the Contract Sum properly allocable to completed Work; Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of Five (5%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201™–2017, General Conditions of the Contract for Construction;~~
- ~~.2 That Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction; or, construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and writing), less retainage of Five (5%);~~
- ~~.3 That portion of Construction Change Directives that the Architect determines, in the Architect's professional judgment, to be reasonably justified. Subtract the aggregate of previous payments made by the Owner; and~~
- ~~.4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201–2017.~~

§ 5.1.6.2 ~~The amount of each progress payment shall then be reduced by: progress payment amount determined in accordance with Section 5.1.6 herein shall be further modified under the following circumstances:~~

- ~~.1 The aggregate of any amounts previously paid by the Owner;~~
- ~~.2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017; Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and (Section 9.8.5 of AIA Document A201–2017 requires release of applicable retainage upon Substantial Completion of Work with consent of surety, if any.)~~
- ~~.3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;~~
- ~~.4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and, 2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201–2017.~~

~~.5 Retainage withheld pursuant to Section 5.1.7.~~

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

§ 5.1.7.1.1 The following items are not subject to retainage:

(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

~~§ 5.1.7.2~~ Reduction or limitation of retainage, if any, shall be as follows:

~~(If the retainage established in Section 5.1.7.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)~~

~~§ 5.1.7.3~~ Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:

~~(Insert any other conditions for release of retainage upon Substantial Completion.)~~

~~§ 5.1.7.~~ Reduction or limitation of retainage, if any, shall be as follows:

~~(If the retainage established in Section 5.1.6.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)~~

PAGE 6

Mitchell Associates Architects, PLLC
29 Thatcher Road
Voorheesville, NY 12186

...

[☒] Litigation in a court of competent jurisdiction

...

Wendel Construction, Inc.
427 New Karner Road
Albany, NY 12205

PAGE 7

~~§ 8.6~~ Notice in electronic format, pursuant to Article 1 of AIA Document A201–2017, may be given in accordance with AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

~~(If other than in accordance with AIA Document E203–2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)~~Other provisions:

...

~~§ 8.7~~ Other provisions:

...

.4 AIA Document E203™ 2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:
(Insert the date of the E203-2013 incorporated into this Agreement.)

...

.5 — .4 Drawings

...

Bid Plans

April 3, 2023

...

Project Manual

April 3, 2023

PAGE 8

Scope Review Meeting Minutes

Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, , hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 13:32:54 ET on 09/13/2023 under Order No. 4104237337 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A101™ – 2017, Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

(Title)

(Dated)



1 SECOND FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. UNLESS OTHERWISE NOTED, ALL LUMINARIES SHOWN ON THIS PLAN SHALL BE CONNECTED TO PANELBOARD LLP1, CIRCUIT AS INDICATED.
- B. UNLESS OTHERWISE NOTED, ALL EXIT SIGNS SHOWN ON THIS DRAWING SHALL BE CONNECTED TO PANELBOARD LLP1, CIRCUIT #19
- C. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHTING SHALL BE WIRED TO A LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF ALL MANUAL OR AUTOMATIC CONTROL DEVICES.
- D. UNLESS OTHERWISE NOTED, ALL 'NIGHTLIGHT' TAGGED 'NL' SHOWN ON THIS DRAWING SHALL BE PROVIDED UNSWITCHED.

CONSTRUCTION NOTES

1. PROVIDE (1) CCT SIDE CONTROLLER AT THIS LOCATION. SIDE CONTROLLER SHALL BE CONNECTED TO THE LIGHTING IN THIS AREA TO CONTROL COLOR TEMPERATURE.

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Landscape Architecture, P.C.

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04/03/2023

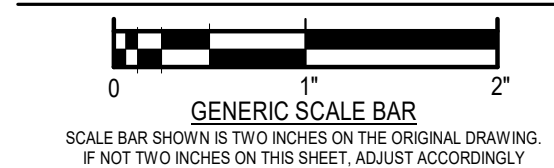
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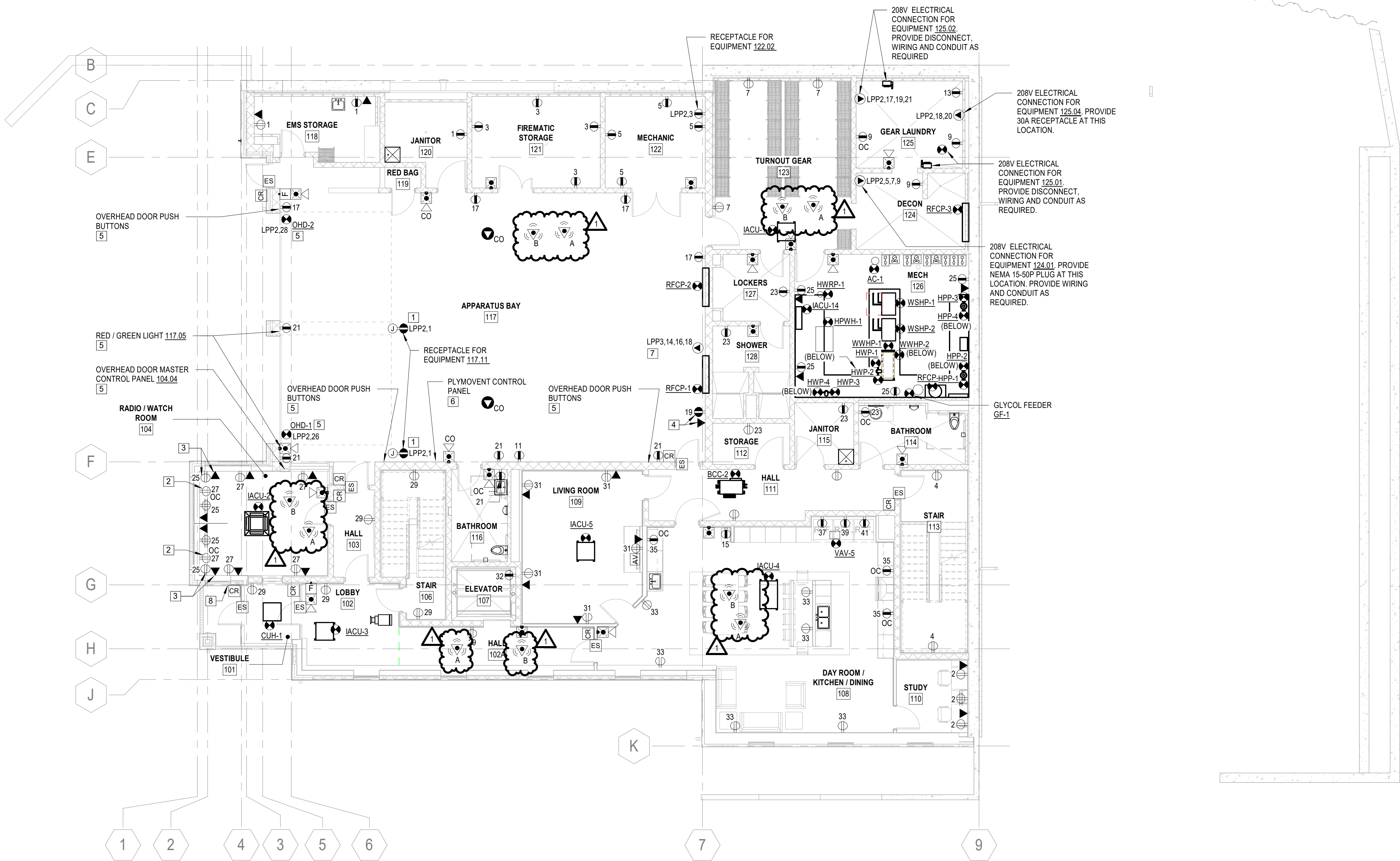
DWG. TITLE

SECOND FLOOR PLAN -
LIGHTING



DATE 04/03/2023
SCALE As indicated
DWN VB1 CHK JFW
PROJ. No. 618601
DWG. No.

E103



1 FIRST FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHOWN ON THIS PLAN SHALL BE CONNECTED TO PANELBOARD LPP1, CIRCUIT AS INDICATED.
- REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E502 FOR WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT INDICATED ON THIS DRAWING.

CONSTRUCTION NOTES

- PROVIDE (1) RECEPTACLE AT THIS LOCATION. WIRE TO PANELBOARD & BRANCH CIRCUIT AS INDICATED. PROVIDE (1) GFCI CIRCUIT BREAKER FOR BRANCH CIRCUIT. FIELD VERIFY EXACT LOCATION WITH CONTRACTOR INSTALLING REEL. ATTACH TO STRUCTURE AS REQUIRED.
- PROVIDE (1) RECEPTACLE WITH USB CHARGING AT THIS LOCATION. WIRE TO PANELBOARD & BRANCH CIRCUIT AS INDICATED.
- PROVIDE (1) RECEPTACLE AND (1) DATA DROP AT THIS LOCATION. WIRE TO PANELBOARD & BRANCH CIRCUIT AS INDICATED. VERIFY EXACT MOUNTING HEIGHT OF RECEPTACLE DATA DROP PRIOR TO ROUGH-IN WITH ARCHITECT.
- PROVIDE (1) RECEPTACLE AND (1) DATA DROP AT THIS LOCATION. WIRE TO PANELBOARD & BRANCH CIRCUIT AS INDICATED. PROVIDE (1) GFCI CIRCUIT BREAKER FOR BRANCH CIRCUIT. VERIFY EXACT MOUNTING HEIGHT OF RECEPTACLE DATA DROP PRIOR TO ROUGH-IN WITH ARCHITECT.
- PROVIDE INTERCONNECT BETWEEN OVERHEAD DOOR OPERATORS (OHD-1 & OHD-2), RED / GREEN LIGHT, OVERHEAD DOOR PUSH BUTTONS AND OVERHEAD DOOR MASTER CONTROL PANEL. PROVIDE CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. OVERHEAD DOOR EQUIPMENT PROVIDED BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- PROVIDE ELECTRICAL CONNECTION TO PLYMOVENT VEHICLE EXHAUST CAPTURE SYSTEM. PROVIDE WIRING AND CONDUIT CONCEALED IN THE WALL AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- REFER DETAIL No.6 ON DRAWING E401 FOR ADDITIONAL INFORMATION ABOUT WELDER RECEPTACLE.
- PROVIDE FIRE ALARM INTERERENCE TO KNOX BOX LOCATED HERE.

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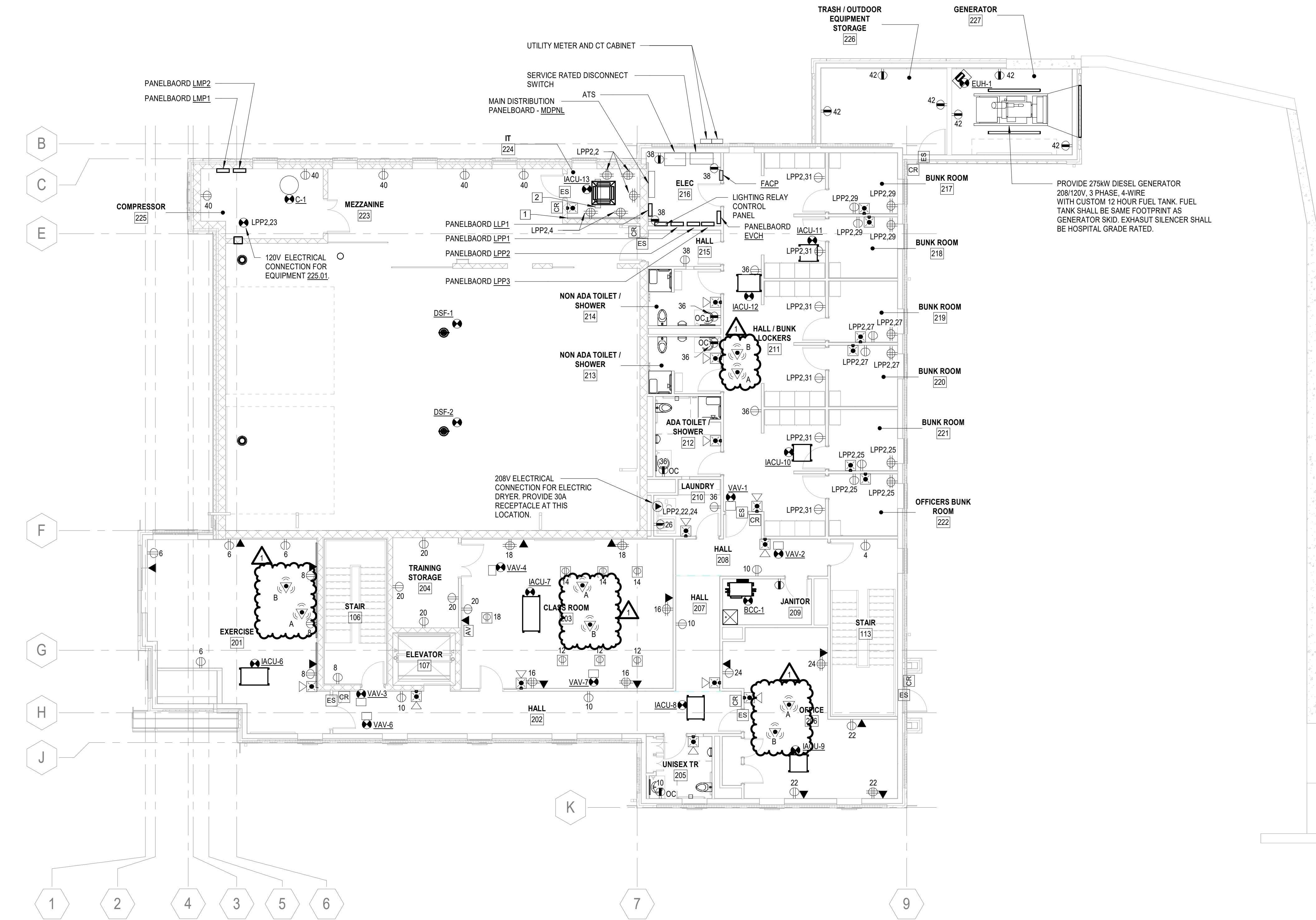
FIRST FLOOR PLAN - POWER &
SYSTEMS



SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE 04/03/23
SCALE As indicated
DWN VB1 CHK JFW
PROJ. No. 618601
DWG. No.

E104



1 SECOND FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHOWN ON THIS PLAN SHALL BE CONNECTED TO PANELBOARD LPP1, CIRCUIT AS INDICATED.
- B. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E502 FOR WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT INDICATED ON THIS DRAWING.

CONSTRUCTION NOTES

1. PROVIDE (1) 4'x8'x3/4" PLYWOOD ON WALL, PAINTED ON BOTH SIDES WITH FIRE RETARDANT PAINT.
2. PROVIDE (1) FLOOR MOUNTED 2 POST EQUIPMENT RACK WITH VERTICAL CABLE MANAGEMENT.

CITY OF ITHACA

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DWG. TITLE

SECOND FLOOR PLAN - POWER & SYSTEMS



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PROJ. No. 618601
DWG. No.

E105

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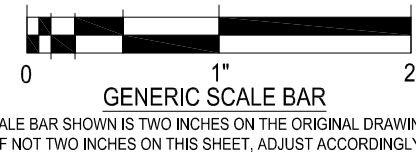
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1	ADDENDUM #01	08-12-2023
NO.	REVISIONS	DATE

DWG. TITLE

ELECTRICAL
SCHEDULES



DATE	08-17-2023
SCALE	AS NOTED
DWN.	RB CHK: JFW
PROJ. No.	618601
DWG. No.	

E501

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	SHIELDING	DRIVER	LIGHT SOURCE	INPUT WATTS	BASIS OF DESIGN
A6	NOMINAL 6" DIAMETER, RECESSED, LED DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: WIDE BEAM, 2-STAGE REFLECTOR SYSTEM SPECIFICALLY DESIGNED FOR LED SOURCES. FIXTURE MOUNTED JUNCTION BOX WITH DRIVER PRE-WIRED TO THE LED ENGINE. SPECULAR CLEAR REFLECTOR. PROVIDE COMPLETE WITH ALL REQUIRED INSTALLATION HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN ASSOCIATED CEILINGS. CEILING TYPES SHALL BE VERIFIED PRIOR TO SUBMITTAL. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, ENERGY STAR & UL LISTED.	LENSED	(1) LED DRIVER, 120-277, 0-10V, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING 1,500 LUMENS, 3500K, MINIMUM 90 CRI.	15	PORTFOLIO - LD6B1.0 SERIES OR EQUAL
B6	NOMINAL 6" DIAMETER, RECESSED, LED DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: WIDE BEAM, 2-STAGE REFLECTOR SYSTEM SPECIFICALLY DESIGNED FOR LED SOURCES. FIXTURE MOUNTED JUNCTION BOX WITH DRIVER PRE-WIRED TO THE LED ENGINE. SPECULAR CLEAR REFLECTOR. PROVIDE COMPLETE WITH ALL REQUIRED INSTALLATION HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN ASSOCIATED CEILINGS. CEILING TYPES SHALL BE VERIFIED PRIOR TO SUBMITTAL. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, ENERGY STAR & UL LISTED. <u>PROVIDE WITH IP66 GASKET KIT.</u>	LENSED	(1) LED DRIVER, 120-277, 0-10V, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING 3,500 LUMENS, 3500K, MINIMUM 90 CRI.	15	PORTFOLIO - LD6B1.0 SERIES OR EQUAL
D22	2X2, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH TEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING NOMINAL 3,000 LUMENS, 3500K, MINIMUM 85 CRI.	30	METALUX - CRUZE 22C2 SERIES OR EQUAL
D41	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH TEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 3,000 LUMENS, 3500K, MINIMUM 85 CRI.	30	METALUX - CRUZE 24C2 SERIES OR EQUAL
D42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH TEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 3,000 LUMENS, 3500K, MINIMUM 85 CRI.	39.9	METALUX - CRUZE 24C2 SERIES OR EQUAL
VD22	2X2, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLOR TUNING CCT, RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH TEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING NOMINAL 3,000 LUMENS, 2700K - 6500K, MINIMUM 85 CRI.	30	METALUX - CRUZE 22C2Z SERIES OR EQUAL
VD42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLOR TUNING CCT, RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH TEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 5,000 LUMENS, 2700K - 6500K, MINIMUM 85 CRI.	39.9	METALUX - CRUZE 24C2Z SERIES OR EQUAL
RC8	CUSTOM LENGTH, RECESSED, PERIMETER WALL WASHER TYPE, LINEAR LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATION: MAIN BODY HOUSING SHALL BE FABRICATED FROM 20-GAUGE STEEL, 8" APERTURE WITH ALL ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE WITH DUST SHIELD. PROVIDE ALL HARDWARE FOR INSTALLATION IN GWB OR ACT TYPE CEILINGS (COORDINATE CEILING REQUIREMENTS ON PLANS). REFER TO DRAWINGS FOR EXACT REQUIRED LENGTH. PROVIDE ALL REQUIRED INTERCONNECTION HARDWARE (CORNERS, EXTENSIONS) FOR A COMPLETE SYSTEM LENGTH AS INDICATED.	NA	INTEGRAL LED DRIVERS, MULTI VOLT (VERIFY DRIVER QUANTITY THAT ARE REQUIRED BY MANUFACTURER FOR RUN LENGTH SHOWN ON DRAWINGS)	LED ARRAY DELIVERING 582 LUMENS PER FOOT, 3500K	7.25 PER FOOT	NEO-RAY - 79-PF LED SERIES OR EQUAL
S4	1X4, SURFACE, LED ARCHITECTURAL LENSED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE STEEL HOUSING, CURVED LUMINOUS SURFACE WITH MATCHING RIBBED CURVED REFLECTOR IN THE MIDDLE. DLC LISTED.	ACRYLIC LINEAR WITH FROST FINISH	(1) UNIVERSAL LED DRIVER, DIMMABLE 0-10V, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING NOMINAL 3,600 LUMENS, 3500K, MINIMUM 85 CRI.	34.8	METALUX - WSNLED SERIES OR EQUAL

GENERAL LUMINAIRE SCHEDULE NOTES:

- UNLESS OTHERWISE NOTED, BASIS OF DESIGN MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED FOR QUALITY AND PERFORMANCE ONLY. WHERE INDICATED "OR EQUAL" LUMINAIRE AND THEIR ASSOCIATED DEVICES MANUFACTURED BY OTHERS SHALL BE EQUALLY ACCEPTABLE PROVIDED THEY MEET OR EXCEED IN PERFORMANCE AND QUALITY OF THE BASIS OF DESIGN LUMINAIRE.
- B. CONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LUMINAIRE PRIOR TO ORDERING THE APPROVED FIXTURE.
- C. ALL LUMINAIRES SHALL BE FURNISHED COMPLETE WITH SPECIFIED LAMPS IF APPLICABLE.
- D. LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES & SPECIFICATIONS
- E. CONTRACTOR SHALL VERIFY CEILING TYPE FOR EACH LUMINAIRE LOCATION & ORDER ACCORDINGLY.
- F. ALL LED LUMINAIRES SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.
- G. CONTRACTOR SHALL VERIFY ALL MOUTING REQUIREMETNS OF EACH EXIT SIGN PRIOR TO ORDERING, AS WELL AS DIRECTIONAL REQUIREMENTS.
- H. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE ALL LISTED OPTIONS AND ACCESSORIES.

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NO.	REVISIONS	DATE
1	ADDENDUM #01	09-12-2023

DIA. TITL

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 08-17-2023

SCALE AS NOTED

DWN. RB CHK. JFY

PROJ. No. 618601

DVG. No

E501A