PROJECT MANUAL

CHAMPAIGN COUNTY PLAZA ELEVATOR RENOVATION

FOR

CHAMPAIGN COUNTY, ILLINOIS
102 E. Main Street
URBANA, ILLINOIS 61801

ISSUED FOR BID

Architect's Project # 21212

ITB # 2023-005

July 11, 2023

Bailey Edward Design, Inc.
1103 S. Mattis Avenue
Champaign, Illinois 61821
217.363.3375

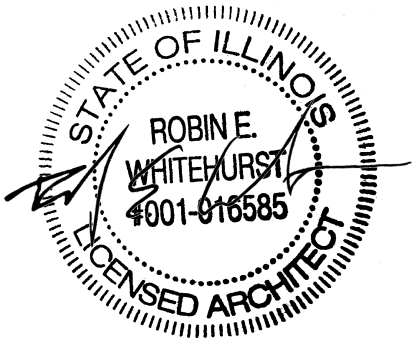


TABLE OF CONTENTS

SPECIFIER(S): Karla Smalley, Bailey Edward Design, Inc.
217.363.3375 Email: ksmalley@baileyedward.com

Dan Lopez, Building Owners Elevator Advocates, LLC
925-705-5556 Email: dan@boeainc.com

SECTION 00 11 16 – INVITATION TO BID

INVITATION TO BID:

CHAMPAIGN COUNTY PLAZA ELEVATOR RENOVATION

Sealed bids for the Champaign County Plaza Elevator Renovation Project will be received by the Champaign County at the Brookens Administrative Center, 1776 East Washington Street, Urbana, IL 61802. Bids will be opened publicly.

Work generally includes but is not limited to the following:

- Modernization of the existing three (3) elevators.
- Select removals of equipment and material at existing three (3) elevators.

Proposals must be submitted on the forms provided and shall contain no qualifications or interlineations. In submitting a bid, it is agreed that the bid may not be withdrawn for a period of thirty (30) days after Bid Date.

The Owner reserves the right to require from any bidder, prior to contract award, a detailed statement regarding the business and technical organization of the bidder that is available for the contemplated work, and a list of his proposed subcontractors. Information pertaining to financial resources may also be required.

A Bid Security in the form of a cashier's check, certified check, or acceptable bidder's surety bond, made payable to the Owner, in an amount that is not less than ten percent (10%) of the Bid proposal submitted, including all Alternates, shall accompany each Bid as a guarantee that: (1) the Bidder will not modify, withdraw or cancel the proposal for thirty (30) days after the bid date; and (2) the bidder, if awarded the contract, will promptly enter into a contract and execute such bonds and furnish such insurance certificates as may be required. Should the Bidder fail to honor these two (2) guarantees for any reason, the Owner shall total the damages and shall deduct the amount of such damages from the Bidder's Bid Security. Should the damages total less than the amount of the Bid Security, the difference shall be returned to the Bidder. However, all damages in excess of the Bid Security shall be borne by the Owner. Damages may include, but shall not be limited to, reasonable compensation for the Owner's additional time spent, additional Architect's fees, costs to the Owner for delays in completion of the Work based upon the Bidders proposed Contract Time and the Contract Time as Awarded including, but not limited to, interest expense and lost revenue, the difference between the Bidder's proposed Contract Sum and the Contract Sum as awarded and costs to re bid the Project should such action become necessary. Such bid securities will be returned to the unsuccessful bidders after execution of the Contract.

Sealed bids for the proposed work will be received up to the hour of **2:00 P.M.** Central Daylight Time on **Thursday, July 27, 2023;** at the Lyle Shields Meeting Room, Brookens Administrative Center, 1776 East Washington Street, Urbana, IL 61802.

A pre-bid conference will be held on the first level of the Champaign County Plaza site, 102 E. Main Street, Urbana, IL 61801, on **Tuesday July 18, 2023** at **1:00 P.M.** CDT.

A complete set of documents will be available from Eastern Engineering, 404 E. University Ave., Champaign, IL. 61820, www.easternengineering.com, 217.359.3261.

Refundable Plan Deposit: $100 for each set of bid documents. Two (2) sets maximum, Additional sets may be purchased without refund.

For Electronic sets, contact Eastern Engineering at www.easternengineering.com, 217.359.3261

Plan deposits will be refunded in full upon the return of the Bid Documents, in good condition, within thirty (30) days after the bid opening. The deposits of General Contractors, who do not submit a bonafide bid or do not return the Bid Documents within thirty (30) days after the bid opening, will not be refunded.

Contractor and Subcontractors shall include in bids, the cost for the current prevailing wage (Illinois Prevailing Wage Act - 820 ILCS 130/0.01 et seq.). The Contractor shall ensure that any Subcontractors shall comply with the Illinois Prevailing Wage Act.

Champaign County has a Project Labor Agreement.

The Owner reserves the right to reject any or all bids, to waive any irregularities in the bidding, or to accept the bids that in their judgment will be for their best interest.

Once awarded the contract, the Contractor will furnish a satisfactory performance bond, execute the contract and proceed with the work. The Contractor shall indicate the amount of the performance bond on the bid form.

END OF SECTION 00 11 16

SECTION 00 21 13 – INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.1 INSTRUCTIONS TO BIDDERS

A. AIA Document A701, "Instructions to Bidders," is hereby incorporated into the Procurement and Contracting Requirements by reference.
   1. A copy of AIA Document A701-2018, "Instructions to Bidders," is bound in this Project Manual.

B. AIA Document A201 “General Conditions” is hereby incorporated into the Procurement.
   1. A copy of AIA Document A201-2017 “General Conditions” is bound in this project manual.

END OF DOCUMENT 00 21 13

AIA® Document A701™ – 2018

Instructions to Bidders

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

Champaign County Plaza Elevator Renovation
102 E. Main Street
Urbana, IL 61801

THE OWNER:
(Name, legal status, address, and other information)

Champaign County, IL
1776 East Washington Street
Urbana, IL 61802

THE ARCHITECT:
(Name, legal status, address, and other information)

Bailey Edward Design, Inc.
1103 S. Mattis Avenue
Champaign, IL 61821
Telephone Number: 217.363.3375

TABLE OF ARTICLES

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.

FEDERAL, STATE, AND LOCAL LAWS MAY IMPOSE REQUIREMENTS ON PUBLIC PROCUREMENT CONTRACTS. CONSULT LOCAL AUTHORITIES OR AN ATTORNEY TO VERIFY REQUIREMENTS APPLICABLE TO THIS PROCUREMENT BEFORE COMPLETING THIS FORM.

It is intended that AIA Document G612™–2017, Owner's Instructions to the Architect, Parts A and B will be completed prior to using this document.

ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement's Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 By submitting a Bid, the Bidder represents that:

.1 the Bidder has read and understands the Bidding Documents;

.2 the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;

.3 the Bid complies with the Bidding Documents;

.4 the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder's observations with the requirements of the Proposed Contract Documents;

.5 the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and

.6 the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Distribution

§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid, for the deposit sum, if any, stated therein.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall obtain Bidding Documents.)

§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder's deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least seven days prior to the date for receipt of Bids.
(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall submit requests for clarification and interpretation.)

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least ten days prior to the date for receipt of Bids. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certifications (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Addenda will be transmitted.)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than four days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change" or as required by the bid form.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached, certifying the agent's authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by the following bid security:

(Insert the form and amount of bid security.)

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount

of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. In the event the Owner fails to comply with Section 6.2, the amount of the bid security shall not be forfeited to the Owner.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected. However, if no Contract has been awarded or a Bidder has not been notified of the acceptance of its Bid, a Bidder may, beginning days after the opening of Bids, withdraw its Bid and request the return of its bid security.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:
(Indicate how, such as by website, host site/platform, paper copy, or other method Bidders shall submit their Bid.)

§ 4.3.2 Paper copies of the Bid, the bid security, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder's name and address, and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.

§ 4.3.3 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted.

§ 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.5 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security shall be in an amount sufficient for the Bid as resubmitted.

§ 4.4.3 After the date and time designated for receipt of Bids, a Bidder who discovers that it made a clerical error in its Bid shall notify the Architect of such error within two days, or pursuant to a timeframe specified by the law of the jurisdiction where the Project is located, requesting withdrawal of its Bid. Upon providing evidence of such error to the reasonable satisfaction of the Architect, the Bid shall be withdrawn and not resubmitted. If a Bid is withdrawn pursuant to this Section 4.4.3, the bid security will be attended to as follows:
(State the terms and conditions, such as Bid rank, for returning or retaining the bid security.)

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

§ 5.3.2 Unless otherwise prohibited by law, the Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

§ 6.2 Owner's Financial Capability

A Bidder to whom award of a Contract is under consideration may request in writing, fourteen days prior to the expiration of the time for withdrawal of Bids, that the Owner furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract. The Owner shall then furnish such reasonable evidence to the Bidder no later than seven days prior to the expiration of the time for withdrawal of Bids. Unless such reasonable evidence is furnished within the allotted time, the Bidder will not be required to execute the Agreement between the Owner and Contractor.

§ 6.3 Submittals

§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect:

.1 a designation of the Work to be performed with the Bidder's own forces;

.2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and

.3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.
(If Payment or Performance Bonds are to be in an amount other than 100% of the Contract Sum, indicate the dollar amount or percentage of the Contract Sum.)

§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to commence sooner in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312, Performance Bond and Payment Bond.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

§ 8.1 Copies of the proposed Contract Documents have been made available to the Bidder and consist of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.2 AIA Document A101™–2017, Exhibit A, Insurance and Bonds, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.3 AIA Document A201™–2017, General Conditions of the Contract for Construction, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

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

.5 Drawings

Number	Title	Date

.6 Specifications

Section	Title	Date	Pages

.7 Addenda:

Number	Date	Pages

.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:
(Insert the date of the E204-2017.)

[ ] The Sustainability Plan:

Title	Date	Pages

[ ] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

.9 Other documents listed below:
(List here any additional documents that are intended to form part of the Proposed Contract Documents.)

AIA® Document A201™ – 2017

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)

Champaign County Plaza Elevator Renovation
102 E. Main Street
Urbana, IL 61801

THE OWNER:
(Name, legal status and address)

Champaign County, Illinois
1776 East Washington Street
Urbana, IL 61802

THE ARCHITECT:
(Name, legal status and address)

Bailey Edward Design, Inc,
1103 S. Mattis Avenue
Champaign, IL 61821

TABLE OF ARTICLES

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.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

14 TERMINATION OR SUSPENSION OF THE CONTRACT

15 CLAIMS AND DISPUTES

INDEX
(Topics and numbers in bold are Section headings.)

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be liable for results of interpretations or decisions rendered in good faith.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent

consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™–2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor, within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of, or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 Following commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due; or (3) a change in the Work materially changes the Contract Sum. If the Owner fails to provide such evidence, as required, within fourteen days of the Contractor's request, the Contractor may immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, if the request is made because a change in the Work materially changes the Contract Sum under (3) above, the Contractor may immediately stop only that portion of the Work affected by the change until reasonable evidence is provided. If the Work is stopped under this Section 2.2.2, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided in the Contract Documents.

§ 2.2.3 After the Owner furnishes evidence of financial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.4 Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days' notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements,

assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- **.1** allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- **.2** Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- **.3** whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the

Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the time and in the form specified by the Architect.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the

Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations

and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor,

prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and

.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work,

promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

.1 The change in the Work;
.2 The amount of the adjustment, if any, in the Contract Sum; and
.3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
.2 Unit prices stated in the Contract Documents or subsequently agreed upon;
.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
.4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

.1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;
.2 Costs of materials, supplies, and equipment, including cost of transportation, whether incorporated or consumed;
.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and
.5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will

affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and

unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- **.1** defective Work not remedied;
- **.2** third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- **.3** failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- **.4** reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- **.5** damage to the Owner or a Separate Contractor;
- **.6** reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- **.7** repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- **.1** liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- **.2** failure of the Work to comply with the requirements of the Contract Documents;
- **.3** terms of special warranties required by the Contract Documents; or
- **.4** audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- **.1** employees on the Work and other persons who may be affected thereby;
- **.2** the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- **.3** other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 Failure to Purchase Required Property Insurance. If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage, the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reimburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 Notice of Cancellation or Expiration of Owner's Required Property Insurance. Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 11.3.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 11.3.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

The Owner, at the Owner's option, may purchase and maintain insurance that will protect the Owner against loss of use of the Owner's property, or the inability to conduct normal operations, due to fire or other causes of loss. The Owner waives all rights of action against the Contractor and Architect for loss of use of the Owner's property, due to fire or other hazards however caused.

§11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 11.5.2 Prior to settlement of an insured loss, the Owner shall notify the Contractor of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The Contractor shall have 14 days from receipt of notice to object to the proposed settlement or allocation of the proceeds. If the Contractor does not object, the Owner shall settle the loss and the Contractor shall be bound by the settlement and allocation. Upon receipt, the Owner shall deposit the insurance proceeds in a separate account and make the appropriate distributions. Thereafter, if no other agreement is made or the Owner does not terminate the Contract for convenience, the Owner and Contractor shall execute a Change Order for reconstruction of the damaged or destroyed Work in the amount allocated for that purpose. If the Contractor timely objects to either the terms of the proposed settlement or the allocation of the proceeds, the Owner may proceed to settle the insured loss, and any dispute between the Owner and Contractor arising out of the settlement or allocation of the proceeds shall be resolved pursuant to Article 15. Pending resolution of any dispute, the Owner may issue a Construction Change Directive for the reconstruction of the damaged or destroyed Work.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to

the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Interest

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

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

.1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;

.2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;

.3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

.4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

.1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;

.2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or Suppliers;

.3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or

.4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

.1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

.2 Accept assignment of subcontracts pursuant to Section 5.4; and

.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance,

the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the

Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. If such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.

§ 15.3.4 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

SECTION 00 22 13 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

1.1 INSTRUCTIONS TO BIDDERS

A. Instructions to Bidders for Project consist of the following:

1. AIA Document A701 - 2018, "Instructions to Bidders" a copy of which is bound in this Project Manual.
2. The following Supplementary Instructions to Bidders that modify and add to the requirements of the Instructions to Bidders.

1.2 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS, GENERAL

A. The following supplements modify AIA Document A701, "Instructions to Bidders." Where a portion of the Instructions to Bidders is modified or deleted by these Supplementary Instructions to Bidders, unaltered portions of the Instructions to Bidders shall remain in effect.

1.3 ARTICLE 2 - BIDDER'S REPRESENTATIONS

A. Add Section 2.1.7:

1. 2.1.7 - The Bidder has investigated all required fees, permits, and regulatory requirements of authorities having jurisdiction and has properly included in the submitted bid the cost of such fees, permits, and requirements not otherwise indicated as provided by Owner.

B. Add Section 2.1.8:

1. 2.1.8 - The Bidder is a properly licensed Contractor according to the laws and regulations of the local and state jurisdictions and meets qualifications indicated in the Procurement and Contracting Documents.

C. Add Section 2.1.9:

1. 2.1.9 - The Bidder has incorporated into the Bid adequate sums for work performed by installers whose qualifications meet those indicated in the Procurement and Contracting Documents.

1.4 ARTICLE 3 - BIDDING DOCUMENTS

A. 3.4 - Addenda:

1. Delete Section 3.4.3 and replace with the following:

a. 3.4.3 - Addenda may be issued at any time prior to the receipt of bids.

2. Add Section 3.4.4.1:

a. 3.4.4.1 - Owner may elect to waive the requirement for acknowledging receipt of 3.4.4 Addenda as follows:

1) 3.4.4.1.1 - Information received as part of the Bid indicates that the Bid, as submitted, reflects modifications to the Procurement and Contracting Documents included in an unacknowledged Addendum.
2) 3.4.4.1.2 - Modifications to the Procurement and Contracting Documents in an unacknowledged Addendum do not, in the opinion of Owner, affect the Contract Sum or Contract Time.

1.5 ARTICLE 4 - BIDDING PROCEDURES

A. 4.1 - Preparation of Bids:

1. Add Section 4.1.9:

a. 4.1.9 - Owner may elect to disqualify a bid due to failure to submit a bid in the form requested, failure to bid requested alternates or unit prices, failure to complete entries in all blanks in the Bid Form, or inclusion by the Bidder of any alternates, conditions, limitations or provisions not called for.

B. 4.2 - Bid Security:
1. Delete section 4.2.1 and replace with the following:
a. Each Bid shall be accompanied by a bid security in the form and amount required in the bid documents and noted in 00 41 06.

C. 4.3 - Submission of Bids:

1. Delete section 4.3.1 and replace with the following:
a. A Bidder shall submit paper copies its Bid, the bid security, and all other documents required by the bid documents.

2. Add Section 4.3.2.1:

a. 4.3.2.1 - Include Bidder's Contractor License Number applicable in Project jurisdiction on the face of the sealed bid envelope.

D. 4.4 - Modification or Withdrawal of Bid:

1. Add the following sections to 4.4.1:

a. 4.4.1.1 - Such modifications to or withdrawal of a bid may only be made by persons authorized to act on behalf of the Bidder. Authorized persons are those so identified in the Bidder's corporate bylaws, specifically empowered by the Bidder's charter or similar legally binding document acceptable to Owner, or by a power of attorney, signed and dated, describing the scope and limitations of the power of attorney. Make such documentation available to Owner at the time of seeking modifications or withdrawal of the Bid.

b. 4.4.1.2 - Owner will consider modifications to a bid written on the sealed bid envelope by authorized persons when such modifications comply with the

following: the modification is indicated by a percent or stated amount to be added to or deducted from the Bid; the amount of the Bid itself is not made known by the modification; a signature of the authorized person, along with the time and date of the modification, accompanies the modification. Completion of an unsealed bid form, awaiting final figures from the Bidder, does not require power of attorney due to the evidenced authorization of the Bidder implied by the circumstance of the completion and delivery of the Bid.

1.6 ARTICLE 5 - CONSIDERATION OF BIDS

A. 5.2 - Rejection of Bids:

1. Add Section 5.2.1:

a. 5.2.1 - Owner reserves the right to reject a bid based on Owner's and Engineer's evaluation of qualification information submitted following opening of bids. Owner's evaluation of the Bidder's qualifications will include: status of licensure and record of compliance with licensing requirements, record of quality of completed work, record of Project completion and ability to complete, record of financial management including financial resources available to complete Project and record of timely payment of obligations, record of Project site management including compliance with requirements of authorities having jurisdiction, record of and number of current claims and disputes and the status of their resolution, and qualifications of the Bidder's proposed Project staff and proposed subcontractors.

1.7 ARTICLE 6 – POST-BID INFORMATION

A. 6.1 - Contractor's Qualification Statement:

1. Add Section 6.1.1:

a. 6.1.1 - Submit Contractor's Qualification Statement no later than five days after the bid submittal.

1.8 ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

A. 7.1 - Bond Requirements:

1. Add Section 7.1.1.1:

a. 7.1.1.1 – A Performance Bond will be required, in an amount equal to 100 percent of the Contract Sum.

B. 7.2 - Time of Delivery and Form of Bonds:

1. Delete the first sentence of Section 7.2.1 and insert the following:

a. The Bidder shall deliver the required bonds to Owner no later than 10 days after the date of Notice of Intent to Award and no later than the date of execution of the Contract, whichever occurs first. Owner may deem the failure of the Bidder to deliver required bonds within the period of time allowed a default.

2. Delete Section 7.2.3 and insert the following:

a. 7.2.3 - Bonds shall be executed and be in force on the date of the execution of the Contract.

1.9 ARTICLE 8 – ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

A. The form of agreement between Owner and Contractor is included in specifications and is bound in this project manual.

1.10 ARTICLE 9 - EXECUTION OF THE CONTRACT

A. Add Article 9:

1. 9.1.1 - Subsequent to the Notice of Intent to Award, and within 10 days after the prescribed Form of Agreement is presented to the Awardee for signature, the Awardee shall execute and deliver the Agreement to Owner, in such number of counterparts as Owner may require.

2. 9.1.2 - Owner may deem as a default the failure of the Awardee to execute the Contract and to supply the required bonds when the Agreement is presented for signature within the period of time allowed.

3. 9.1.3 - Unless otherwise indicated in the Procurement and Contracting Documents or the executed Agreement, the date of commencement of the Work shall be the date of the executed Agreement or the date that the Bidder is obligated to deliver the executed Agreement and required bonds to Owner.

4. 9.1.4 - In the event of a default, Owner may declare the amount of the Bid security forfeited and elect to either award the Contract to the next responsible bidder or re-advertise for bids.

END OF DOCUMENT 00 22 13

SECTION 00 22 44 - ADDITIONAL INSURANCE REQUIREMENTS

1.1 INSURANCE

The Contractor shall purchase and maintain insurance as required in the current edition of the Standard Form of Agreement Between Owner and Contractor where the Basis of Payment is a Stipulated Sum, AIA Document A101 and the General Condition of the Contract for Construction, AIA Document A201 as modified by these specifications, AIA General Conditions and Supplements to the AIA General Conditions, Article 11

A. All of the above documents shall be thoroughly studied prior to purchases of an insurance policy to cover the Project.

B. While not limited to the following requirements, the requirements listed below are brought to the Contractors Specific attention.

1) Champaign County, and the Architect/Engineer shall be named as additional insureds on the Commercial General Liability Policy and the Umbrella Liability Policy.

2) Waivers of Subrogation are required for both Property Insurance and for Liability Insurance.

1.2 ADDITIONAL LIABILITY INSURANCE REQUIREMENTS

In addition to the liability insurance requirements noted in Paragraph 1.01 above, the following requirements also apply:

A. The Contractor shall purchase and maintain a Commercial General Liability Policy which shall include the following coverage areas:

1) Operations of the Contractor - direct liability coverage for the Contractors activities at a permanent location and the Project Site;
2) Operations of Subcontractors - Liability coverage for those entities for which the Contractor has a duty to supervise and stand legally responsible for their conduct;
3) Completed Operations - Liability for property damage and bodily injury and death that occurs after Substantial Completion;
4) Personal Injury - Including but not limited to, libel, slander, defamation of character, wrongful eviction, right of private occupancy, false arrest and detention and other similar personal injuries;
5) Employees as Additional Insured - Include employees and their acts into the coverage;
6) Explosion, Collapse, Underground - Liability coverage for the property of others to include, but not limited to, unknown utilities; and
7) Contractual Liability - coverage for the assumption of others by Contract.

B. The Commercial General Liability Policy shall name Champaign County, the Architect, the Architect's Consultants, their agents and employees as additional insured.

C. The Contractor shall purchase and maintain Workers Compensation and Employees Liability Insurance.

D. The Contractor shall purchase and maintain commercial Automobile Liability Insurance. This policy shall cover Owned, Non-owned and Hired vehicles.

E. The Contractor shall purchase and maintain Umbrella Liability Coverage to provide higher limits of liability above those required for General Liability, Employers Liability and Automobile Liability.

F. The Umbrella Liability Policy shall name Champaign County, the Architect, the Architect's

Consultants, their agents and employees as additional insured.

G. Liability limits shall be as specified herein or the maximum exposure as stated in the Government Tort Claims Acts as most recently amended, whichever is higher.

H. The minimum amount of coverage and the limits of liability shall be as specified below:

1) Claims under workers' or workman's compensation, disability benefit and other similar employee benefit acts which are applicable to the Work to be performed:

a. As required by law.

2) Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees:

a. $1,000,000.00

3) Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees:

a. $ 500,000.00

4) Claims for damages insured by usual personal injury liability coverage which are sustained (1) by a person as a result of an offense directly or indirectly related to employment of such person by the Contractor, or (2) by another person:

a. $1,000,000.00

5) Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom:

a. $ 500,000.00

6) Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle:

a. $1,000,000.00

7) Claims involving contractual liability insurance applicable to the Contractor's obligations under Paragraph 3.18 of the General Conditions for the Contract for Construction as modified:

a. $ 500,000.00

1.3 SUBMITTAL REQUIREMENTS

A. Submit ACORD 25-S form along with the signed Agreement Between Owner and Contractor.

B. Champaign County shall be listed as Certificate Holder.

C. Include the following sentence under Special Items:

"The Certificate Holder is Champaign County, Architect, Architect's Consultants, including their Agents and Employees are named as additional insured's in both the General and Umbrella Liability Policy. Waivers of Subrogation are in effect for both liability and property insurance policies."

1.4 LOSS OF USE INSURANCE

A. The Owner, at the Owners option, may purchase and maintain such insurance that will protect the Owner against the loss of use of this property.

END OF SECTION 00 22 44

SECTION 00 25 13 – PREBID MEETING

1.1 PREBID MEETING

A. There will be a Prebid meeting as indicated below:

1. Meeting Date: Thursday, July 18, 2023.
2. Meeting Time: 1:00 P.M. CDT.
3. Location: Champaign County Plaza, 102 East Main Street, Urbana, IL 61821

B. Bidder Questions: Submit written questions to be addressed at Prebid meeting a minimum of two business days prior to meeting.

C. Agenda: Prebid meeting agenda will include review of topics that may affect proper preparation and submittal of bids, including the following:

1. Procurement and Contracting Requirements:
   a. Instructions to Bidders.
   b. Bidder Qualifications.
   c. Bonding.
   d. Insurance.
   e. Bid Form and Attachments.
   f. Bid Submittal Requirements.
   g. Notice of Award.

2. Communication during Bidding Period:
   a. Obtaining documents.
   b. Bidder's Requests for Information.
   c. Bidder's Substitution Request/Prior Approval Request.
   d. Addenda.

3. Contracting Requirements:
   a. Agreement.
   b. The General Conditions.
   c. The Supplementary Conditions.
   d. Other Owner requirements.

4. Construction Documents:
   a. Scopes of Work.
   b. Temporary Facilities.
   c. Use of Site.
   d. Work Restrictions.
   e. Unit Price.
   f. Substitutions following award.

5. Schedule:
   a. Project Schedule.
   b. Contract Time.
   c. Other Bidder Questions.

6. Site/facility visit or walkthrough.

7. Post-Meeting Addendum.

D. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes to attendees of prebid meeting only. Minutes of meeting are issued as Available Information and do not constitute a modification to the Procurement and Contracting Documents. Modifications to the Procurement and Contracting Documents are issued by written Addendum only.

1. Sign-in Sheet: Minutes will include list of meeting attendees.

END OF DOCUMENT 00 25 13

RETURN WITH BID

DOCUMENT 00 41 06 – BID BOND

_____

_____

as Principal, and _____

a corporation of the State of _____

as Surety, are held and firmly bound unto the Champaign County the amount of ten percent (10%) of the amount of the base bid for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, to this agreement.

Principal has submitted to Obligee a bid to enter into a written contract, for

Project Number: _____ Division of Work: _____

in accordance with bidding documents for the project, which contract is by reference made a part hereof and is hereinafter referred to as "the Contract".

THE CONDITION OF THIS OBLIGATION is that if Principal, upon acceptance by Obligee of its bid within the period of time specified for acceptance, shall comply with all post award requirements as required by the terms of the bid within the time specified after date of the Notice of Award, or in the event of the failure to comply with all post award requirements, if Principal shall pay Obligee (1) for all costs of procuring the work which exceeds the amount of its bid, or (2) shall pay Obligee the amount of this bond as liquidated damages in the event Principal is a sole bidder and after an attempt to secure other bids by readvertising none can be obtained, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Surety hereby agrees that its obligation shall not be impaired by any extensions of time for Obligee's acceptance or compliance with post award requirements. Surety hereby waives notice of such extensions.

Signed and sealed this _____ day of _____, 20____.

_____ _____

CONTRACTOR SURETY

BY _____ BY _____

SIGNATURE OFFICER OF THE SURETY

Title _____ Title _____

ATTEST:

_____

CORPORATE SECRETARY (Corporations only)

JURAT (Notary's Statement Authenticating Signature)

STATE OF _____

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert Name of Attorney-In-Fact for SURETY)

who is personally known to me to be the same person whose name is subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that he/she signed, sealed, and delivered said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ DAY OF _____ A.D. 20 ____

My commission expires _____

Notary Signature _____

SECTION 00 41 13 – BID FORM – STIPULATED SUM (SINGE-PRIME CONTRACT)

1.1 BID INFORMATION

A. Bidder: _____.
B. Project Name: Champaign County Plaza Elevator Renovation
C. Project Location: 102 E. Main Street, Urbana, Illinois 61801
D. Owner: Champaign County

1.2 CERTIFICATIONS AND BID

A. **Base Bid, Single-Prime (All Trades) Contract**: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by Bailey Edward Design, Inc., 1103 S. Mattis Avenue, Champaign, IL 61821, and their consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. _____ Dollars

($_____)

B. Alternates

1. Alternate1. Provide a price (addition or reduction) to install Gearless Drive Machines in lieu of Geared Drive Machines per criteria noted in **2.7 Alternate NO. 1** of the Elevator Alteration Bid Package. Bidder agrees to furnish all labor, materials, equipment, and services required to complete all work shown, specified, or required for the sum of:

_____ Dollars

($_____) ___Addition ___Deduction

2. Alternate No. 2: Reclad hall doors and jambs, all levels, all elevators.

Provide a price (addition or reduction) to re-clad hall door jambs and hall doors in lieu of painting hall doors and door jambs. Provide SS# 4 door jamb cladding and hall door cladding. per criteria noted in **2.17B and 2.18B Alternate NO. 2** of the Elevator Alteration Bid Package. Bidder agrees to furnish all labor, materials, equipment, and services required to complete all work shown, specified, or required for the sum of

_____ Dollars

($_____) Elevator Unit #1-2

_____ Dollars

($_____) Elevator Unit #3

3. Alternate No. 3: Accelerate modernization Schedule.

   All Provide a price to accelerate modernization schedule. Provide schedule and number of modernization crews.

   _____Dollars

   ($_____) Elevator Unit # 1-3

   Number of Modernization Crews_____

   Alternate New Schedule:

Proposed Timeline		
Phase	**Description**	**Timeline (in Weeks)**
1	Survey	
2	Contractor Submittals	
3	Client/Consultant Approval Period	1 Week
4	Production	
5	Modernization Installation	
6	Testing and adjusting	
	Total Modernization	

C. Alternates - with MBE/WBE Goals

1. Alternate No. 1: Gearless Drive machine Elevator

   _____Dollars

   ($_____) ___Addition ___Deduction

2. Alternate No. 2: Reclad hall doors and jambs, all levels, all elevators.

   _____Dollars

   ($_____) Elevator Unit #1-2

   _____Dollars

   ($_____) Elevator Unit #3

3. Alternate No. 3: Accelerate Modernization Schedule

   _____Dollars

   ($_____) Elevator Unit # 1-3

1.3 TIME OF COMPLETION

A. Provided the contractor receives Notice to Proceed on or prior to August 25, 2023 the bidder agrees to be substantially complete with the Base Bid work on or before April 30, 2024.

1.4 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated _____.
2. Addendum No. 2, dated _____.
3. Addendum No. 3, dated _____.

1.5 SUBMISSION OF BID

A. In submitting the Bid, the undersigned agree that this Proposal will not be withdrawn for a period of thirty (30) calendar days from the date of submission. It is understood the Owner reserves the right to reject any and all Bids and to waive informalities and irregularities.

1. Respectfully submitted this ____ day of _____, 2023.

2. Submitted By :_____
(Name of bidding firm or corporation).

3. Authorized Signature :_____
(Handwritten signature).

4. Signed By :_____
(Type or print name).

5. Title :_____
(Owner/Partner/President/Vice President).

6. Witness By :_____
(Handwritten signature).

7. Attest :_____
(Handwritten signature).

8. By :_____
(Type or print name).

9. Title :_____
(Corporate Secretary or Assistant Secretary).

10. Street Address:_____.

11. City, State, Zip: _____.

12. Phone: _____.

13. License No.:_____.

14. Federal ID No. :_____

(Affix Corporate Seal Here).

END OF DOCUMENT 00 41 13

RETURN WITH BID

BIDDER'S / CONTRACTOR'S DISCLOSURE AFFIDAVIT

STATE OF ILLINOIS)
) SS
COUNTY OF _____)

BUSINESS STATUS STATEMENT

I, the undersigned, being duly sworn, do state as follows:

A. _____ (hereafter "Contractor") is a:
Company Name

(Place a mark in front of appropriate type of business)

_____ Corporation (If a Corporation, complete B)

_____ Partnership (If a Partnership, complete C)

_____ Individual Proprietorship (If an Individual, complete D)

B. CORPORATION

The State of Incorporation is _____

The registered agent of the Corporation in Illinois is:

Name: _____

Address: _____

City, State, Zip: _____

Telephone: _____

The Corporate officers are as follows:

President: _____

Vice President: _____

Secretary: _____

Treasurer: _____

RETURN WITH BID

C. PARTNERSHIP
The Partners are as follows (attach additional sheets if necessary):

Name	Address
Name	Address
Name	Address
Name	Address

The business address is: _____

D. INDIVIDUAL PROPRIETORSHIP

The business address is: _____

Business Telephone: _____

My home address is: _____

Home Telephone: _____

E. Under penalty of perjury _____
(Contractor's Name)

Certifies that _____ (FEIN / SSN)
is its correct Federal Taxpayer Identification Number, or in the case of an individual or sole proprietorship, Social Security Number.

NON-DISCRIMINATION STATEMENT
The Contractor does not and will not engage in discriminatory practices; the Contractor does not and will not engage in discrimination because of race, sex, age, religion, national origin or sensory, mental, or physical handicap in hiring or firing; and the Contractor is, in fact, an equal opportunity employer.

RETURN WITH BID

NON-COLLUSION STATEMENT

A. That the only persons or corporations interested with _____ (Name of Bidder) in the delivery of the materials and/or services bid upon under the Contract other than its officers, directors, shareholders and employees are:

Name	Address
Name	Address
Name	Address
Name	Address

B. That the said Bid is made without any connection or common interest in the profits with any other persons making any Bid or Proposal for said Work except as listed above.

C. That this Contract is in all respects fair and entered into without collusion or fraud.

D. That no employee or any officer of the Owner has any financial interest, directly or indirectly, in the award of this Bid to Bidder except as listed above.

E. That the Bidder is not barred from bidding on this Contract as a result of violation of either Section 33E-3 (Bid Rigging) or Section 33E-4 (Bid Rotating) of Chapter 38, Illinois Revised Statutes.

F. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

NO DELINQUENT ILLINOIS TAXES STATEMENT

The undersigned certifies that the Contractor is not delinquent in payment of any tax administered by the Illinois Department of Revenue except that the taxes for which liability for the taxes or the amount of the taxes are being contested, in accordance with the procedure established by the appropriate Revenue Act; or the Contractor has entered into an agreement (2) with the Illinois Department of Revenue for the payment of all such taxes due and is in compliance with the agreement.

RETURN WITH BID

FAMILIARITY WITH LAWS STATEMENT

I, the undersigned, being duly sworn, do hereby state that _____
(Company Name)
is familiar with and will comply with all Federal, State and Local laws applicable to the Project, which include, but are not limited to, the Prevailing Wage Act and the Davis-Bacon Act.

PENDING AND UNCOMPLETED WORK

I, the undersigned, being duly sworn, do hereby declare that the following is a true and correct statement relating to **all** uncompleted contracts of the undersigned for Federal, State, County, City and private work, including **all** subcontract work; and all pending low BIDS not yet awarded or rejected:

Total Projects Under Contract _____

Total Projects with Pending Low Bids _____

Total Value of Projects Under Contract and Pending Low Bids

_____
(Affiant's Signature) (Print Name & Title)

_____
(Company Name)

SUBSCRIBED and SWORN to before me this

_____ day of _____ , 2022

Notary Public

My Commission Expires: _____

(SEAL)

INSTRUCTIONS: This affidavit is to be completely filled out and executed by the chief officer of the Bidder authorized to submit the affidavit. Attach written explanation where applicable.

RETURN WITH BID

DRUG FREE WORKPLACE CERTIFICATION

STATE OF _____)
) SS
COUNTY OF _____)

Note: The Illinois Drug Free Workplace Act, effective January 2, 1992, requires the Owner to obtain this certification from each contractor with 25 or more employees or with contracts for $5,000 or more.)

The Contractor certifies that it will:

A. Public a statement:

1. Notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.

2. Specifying the actions that will be taken against employees for violations of such prohibitions.

3. Notifying the employee that, as a condition of employment on such contract or grant, the employee will:

   a. Abide by the terms of the statement; and

   b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than 5 days after such conviction.

B. Establish a drug free awareness program to inform employees about:

1. The dangers of drug abuse in the workplace.

2. The Contractor's policy of maintaining a drug free workplace.

3. Any available drug counseling, rehabilitation and employee assistance program.

4. The penalties that may be imposed upon employees for drug violations.

C. Give a copy of the published statement referred to in paragraph A above to each employee engaged in the performance of the Owner's contract and post the statement in a prominent place in the workplace.

D. Notify the Owner within 10 days after receiving notice under paragraph A.3.b. above from an employee or otherwise receiving actual notice of such conviction.

E. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program by any employee who is so convicted.

F. Assist employees in selecting a course of action in the event drug counseling, treatment or rehabilitation is required and a trained referral team is in place.

G. Make a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

If an individual, the Contractor certifies that it will not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance in the performance of the Owner's contract.

The Contractor shall, within 30 days after receiving notice from an employee of a conviction of a violation of a criminal drug statute occurring in the workplace:

A. Take appropriate personnel action against such employee up to and including termination; and

B. Require the employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State or local health, law enforcement or other appropriate agency.

Contractor:

By:_____

Title:_____

SIGNED and SWORN to before me this

_____ day of _____, 2023.

_____
Notary Public

SECTION 00 43 43 – PREVAILING RATE OF WAGES

1. PREVAILING WAGE ACT

1.1 Pursuant to Illinois Compiled Statutes 820 ILCS 130/0.01 et seq., these specifications list on the following pages, the Illinois Department of Labor prevailing rate of wages for the county where the contract is being performed and for each craft or type of worker needed to execute the contract.

1.2 Contractor shall submit certified payrolls with monthly application for payment.

1.3 A Project Labor Agreement (PLA) is required for this project.

END OF SECTION 00 43 43

Champaign County Prevailing Wage Rates posted on 5/22/2023

						Overtime								
Trade Title	**Rg**	**Type**	**C**	**Base**	**Foreman**	**M-F**	**Sa**	**Su**	**Hol**	**H/W**	**Pension**	**Vac**	**Trng**	**Other Ins**
ASBESTOS ABT-GEN	All	BLD		35.12	36.37	1.5	1.5	2.0	2.0	7.25	18.61	0.00	0.90	
ASBESTOS ABT-MEC	All	BLD		25.45	26.45	1.5	1.5	2.0	2.0	9.95	8.25	0.00	0.50	
BOILERMAKER	All	BLD		42.13	45.13	1.5	1.5	2.0	2.0	7.07	24.01	0.00	2.07	
BRICK MASON	All	BLD		35.16	36.92	1.5	1.5	2.0	2.0	9.25	16.30	0.00	0.91	
CARPENTER	All	BLD		37.83	40.08	1.5	1.5	2.0	2.0	9.25	17.23	0.00	0.78	
CARPENTER	All	HWY		38.10	39.85	1.5	1.5	2.0	2.0	9.25	19.40	0.00	0.75	
CEMENT MASON	All	BLD		36.36	38.86	1.5	1.5	2.0	2.0	10.00	11.70	0.00	0.50	
CEMENT MASON	All	HWY		37.24	39.24	1.5	1.5	2.0	2.0	10.00	13.00	0.00	0.50	
CERAMIC TILE FINISHER	All	BLD		33.17	33.17	1.5	1.5	2.0	2.0	9.25	12.70	0.00	0.50	
ELECTRIC PWR EQMT OP	All	ALL		50.97	60.48	1.5	1.5	2.0	2.0	8.53	14.27	0.00	0.76	
ELECTRIC PWR GRNDMAN	All	ALL		34.63	60.48	1.5	1.5	2.0	2.0	8.04	9.70	0.00	0.52	
ELECTRIC PWR LINEMAN	All	ALL		56.74	60.48	1.5	1.5	2.0	2.0	8.70	15.88	0.00	0.85	
ELECTRIC PWR TRK DRV	All	ALL		36.35	60.48	1.5	1.5	2.0	2.0	8.09	10.18	0.00	0.54	
ELECTRICIAN	All	BLD		46.05	50.66	1.5	1.5	2.0	2.0	7.85	11.95	0.00	0.69	
ELECTRONIC SYSTEM TECH	All	BLD		35.06	38.06	1.5	1.5	2.0	2.0	7.35	11.79	0.00	0.40	
ELEVATOR CONSTRUCTOR	All	BLD		53.26	59.92	2.0	2.0	2.0	2.0	16.07	20.56	4.26	0.70	
FENCE ERECTOR	All	ALL		35.50	37.50	1.5	1.5	2.0	2.0	11.74	15.00	0.00	1.11	
GLAZIER	All	BLD		38.60	40.60	1.5	1.5	2.0	2.0	7.85	13.77	0.00	0.68	
HEAT/FROST INSULATOR	All	BLD		34.90	36.40	1.5	1.5	2.0	2.0	8.49	13.79	0.00	0.30	0.65
IRON WORKER	All	ALL		35.50	37.50	1.5	1.5	2.0	2.0	11.74	15.00	0.00	1.11	
LABORER	All	BLD		32.12	33.37	1.5	1.5	2.0	2.0	7.25	18.61	0.00	0.80	
LABORER	All	HWY		35.17	36.17	1.5	1.5	2.0	2.0	7.25	18.73	0.00	0.80	
LATHER	All	BLD		37.83	40.08	1.5	1.5	2.0	2.0	9.25	17.23	0.00	0.78	
MACHINIST	All	BLD		53.18	57.18	1.5	1.5	2.0	2.0	9.93	8.95	1.85	1.47	
MARBLE FINISHER	All	BLD		33.17	33.17	1.5	1.5	2.0	2.0	9.25	12.70	0.00	0.50	
MARBLE MASON	All	BLD		34.69	34.69	1.5	1.5	2.0	2.0	9.25	12.70	0.00	0.50	
MILLWRIGHT	All	BLD		34.58	36.83	1.5	1.5	2.0	2.0	9.25	20.94	0.00	0.78	
MILLWRIGHT	All	HWY		38.82	40.57	1.5	1.5	2.0	2.0	9.25	21.71	0.00	0.75	
OPERATING ENGINEER	All	ALL	1	43.85	46.85	1.5	1.5	2.0	2.0	11.35	12.50	0.00	1.30	
OPERATING ENGINEER	All	ALL	2	28.75	46.85	1.5	1.5	2.0	2.0	11.35	12.50	0.00	1.30	
OPERATING ENGINEER	All	ALL	3	45.85	46.85	1.5	1.5	2.0	2.0	11.35	12.50	0.00	1.30	

PAINTER	All	ALL		37.45	38.95	1.5	1.5	2.0	2.0	9.85	7.79	0.00	0.60	
PAINTER - SIGNS	All	ALL		37.45	38.95	1.5	1.5	2.0	2.0	9.85	7.79	0.00	0.60	
PILEDRIVER	All	BLD		38.83	41.08	1.5	1.5	2.0	2.0	9.25	17.23	0.00	0.78	
PILEDRIVER	All	HWY		38.10	39.85	1.5	1.5	2.0	2.0	9.25	19.40	0.00	0.75	
PIPEFITTER	All	BLD		48.54	51.55	1.5	1.5	2.0	2.0	8.75	11.14	0.00	2.14	0.10
PLASTERER	All	BLD		36.05	38.05	1.5	1.5	2.0	2.0	9.85	13.77	0.00	0.50	
PLUMBER	All	BLD		48.54	51.55	1.5	1.5	2.0	2.0	8.75	11.14	0.00	2.14	0.10
ROOFER	All	BLD		36.00	39.00	1.5	1.5	2.0	2.0	10.47	9.34	0.00	0.56	
SHEETMETAL WORKER	All	BLD		41.30	43.80	1.5	1.5	2.0	2.0	10.05	15.97	0.00	0.55	2.02
SPRINKLER FITTER	All	BLD		47.09	50.09	1.5	1.5	2.0	2.0	11.45	14.92	0.00	0.52	
STONE MASON	All	BLD		35.16	36.92	1.5	1.5	2.0	2.0	9.25	16.30	0.00	0.91	
TERRAZZO FINISHER	All	BLD		33.17	33.17	1.5	1.5	2.0	2.0	9.25	12.70	0.00	0.50	
TERRAZZO MASON	All	BLD		34.69	34.69	1.5	1.5	2.0	2.0	9.25	12.70	0.00	0.50	
TILE MASON	All	BLD		34.69	34.69	1.5	1.5	2.0	2.0	9.25	12.70	0.00	0.50	
TRUCK DRIVER	All	ALL	1	40.91	45.27	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	ALL	2	41.50	45.27	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	ALL	3	41.77	45.27	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	ALL	4	42.16	45.27	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	ALL	5	43.26	45.27	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	O&C	1	32.73	36.22	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	O&C	2	33.20	36.22	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	O&C	3	33.42	36.22	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	O&C	4	33.73	36.22	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TRUCK DRIVER	All	O&C	5	34.61	36.22	1.5	1.5	2.0	2.0	14.69	7.16	0.00	0.25	
TUCKPOINTER	All	BLD		35.16	36.92	1.5	1.5	2.0	2.0	9.25	16.30	0.00	0.91	

Legend

Rg Region
Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers
C Class
Base Base Wage Rate
OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.
OT Sa Overtime pay required for every hour worked on Saturdays
OT Su Overtime pay required for every hour worked on Sundays
OT Hol Overtime pay required for every hour worked on Holidays
H/W Health/Welfare benefit
Vac Vacation

Trng Training
Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations CHAMPAIGN COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four

axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Draglines, Derricks, Shovels, Gradalls, Mechanics, Tractor Highlift, Tournadozer, Concrete Mixers with Skip, Tournamixer, Two Drum Machine, One Drum Hoist with Tower or Boom, Cableways, Tower Machines, Motor Patrol, Boom Tractor, Boom or Winch Truck, Winch or Hydraulic Boom Truck, Tournapull, Tractor Operating Scoops, Bulldozer, Push Tractor, Asphalt Planer, Finishing Machine on Asphalt, Large Rollers on Earth, Rollers on Asphalt Mix, Ross Carrier or similar Machine, Gravel Processing Machine, Asphalt Plant Engineer, Paver Operator, Dredging Equipment, or Dredge Engineer, or Dredge Operator, Central Mix Plant Engineer, CMI or similar type machine, Concrete Pump, Truck or Skid Mounted, Engineer or Rock Crusher Plant, Concrete Plant Engineer, Ditching Machine with dual attachment, Tractor Mounted Loaders, Hydro Crane, Standard or Dinkey Locomotives, Scoopmobiles, Euclid Loader, Soil Cement Machine, Back Filler, Elevating Machine, Power Blade, Drilling Machine, including Well Testing, Caissons, Shaft or any similar type drilling machines, Motor Driven Paint Machine, Pipe Cleaning Machine, Pipe Wrapping Machine, Pipe Bending Machine, Apsco Paver, Boring Machine, (Head Equipment Greaser), Barber-Greene Loaders, Formless Paver, (Well Point System), Concrete Spreader, Hydra Ax, Span Saw, Marine Scoops, Brush Mulcher, Brush Burner, Mesh Placer, Tree Mover, Helicopter Crew (3), Piledriver-Skid or Crawler, Stump Remover, Root Rake, Tug Boat Operator, Refrigerating Machine, Freezing Operator, Chair Cart- Self-Propelled, Hydra Seeder, Straw Blower, Power Sub Grader, Bull Float, Finishing Machine, Self-Propelled Pavement Breaker, Lull (or similar type Machine), Two Air Compressors, Compressors hooked in Manifold, Chip Spreader, Mud Cat, Sull-Air, Fork Lifts (except when used for landscaping work), Soil Stabilizer (Seaman Tiller, Bo Mag, Rago Gator, and similar types of equipment), Tube Float, Spray Machine, Curing Machine, Concrete or Asphalt Milling Machine, Snooper Truck-Operator, Backhoe, Farm Tractors (with attachments), 4 Point Lift System (Power Lift or similar type), Skid-Steer (Bob Cat or similar type), Wrecking Shears, Water Blaster.

Class 2. Concrete Mixers without Skips, Rock Crusher, Ditching Machine under 6', Curbing Machine, One Drum Machines without Tower or Boom, Air Tugger, Self-Propelled Concrete Saw, Machine Mounted Post Hole Digger, two to four Generators, Water Pumps or Welding Machines, within 400 feet, Air Compressor 600 cu. ft. and under, Rollers on Aggregate and Seal Coat Surfaces, Fork Lift (when used for landscaping work), Concrete and Blacktop Curb Machine, One Water Pump, Oilers, Air Valves or Steam Valves, One Welding Machine, Truck Jack, Mud Jack, Gunnite Machine, House Elevators when used for hoisting material, Engine Tenders, Fireman, Wagon Drill, Flex Plane, Conveyor, Siphons and Pulsometer, Switchman, Fireman on Paint Pots, Fireman on Asphalt Plants, Distributor Operator on Trucks, Tampers, Self-Propelled Power Broom, Striping Machine (motor driven), Form Tamper, Bulk Cement Plant, Equipment Greaser, Deck Hands, Truck Crane Oiler-Driver, Cement Blimps, Form Grader, Temporary Heat, Throttle Valve, Super Sucker (and similar type of equipment).

Class 3. Power Cranes, Truck or Crawler Crane, Rough Terrain Crane (Cherry Picker), Tower Crane, Overhead Crane.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If

a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

SECTION 01 11 00 – PROJECT SUMMARY

1. GENERAL

1.1 WORK INCLUDED

A. Contractor shall provide all labor and materials associated with the work of this section, including:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Coordination with occupants and other contractors.
5. Work restrictions.
6. Specification and drawing conventions.

1.2 PROJECT INFORMATION

A. Project Identification:

1. Champaign County Plaza Elevator Renovation

   102 E. Main Street, Urbana, Illinois 61801

B. Owner's Representative: Dana Brenner.

2. PRODUCTS (NOT APPLICABLE)

3. EXECUTION (NOT APPLICABLE)

END OF SECTION 01 11 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.

2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other work of the Contract.

C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate Bid No. 1: Gearless Drive Machine Elevator:

1. Provide a price (addition or reduction) to install Gearless Drive Machines in lieu of Geared Drive Machines per criteria noted in **2.7 Alternate NO. 1** of the Elevator Alteration Bid Package. Bidder agrees to furnish all labor, materials, equipment, and services required to complete all work shown, specified, or required for the sum of:

B. Alternate Bid No. 2: Reclad hall doors and jambs, all levels, all elevators:

1. Provide a price (addition or reduction) to re-clad hall door jambs and hall doors in lieu of painting hall doors and door jambs. Provide SS# 4 door jamb cladding and hall door cladding. per criteria noted in **2.17B and 2.18B Alternate NO. 2** of the Elevator Alteration Bid Package. Bidder agrees to furnish all labor, materials, equipment, and services required to complete all work shown, specified, or required for the sum of

C. Alternate Bid No. 3: Accelerate modernization schedule:

1. All Provide a price to accelerate modernization schedule. Provide schedule and number of modernization crews.

Alternate New Schedule: Include on the Bid Form

Proposed Timeline		
Phase	**Description**	**Timeline (in Weeks)**
1	Survey	
2	Contractor Submittals	
3	Client/Consultant Approval Period	1 Week
4	Production	
5	Modernization Installation	
6	Testing and adjusting	
	Total Modernization	

END OF SECTION 01 23 00

SECTION 01 32 00 - CONSTRUCTION SCHEDULE

1. GENERAL

1.1 REQUIREMENTS INCLUDE:

A. The Contractor shall prepare and maintain a detailed project schedule as described below.

B. The project schedule shall be the Contractor's working schedule; used to execute the work and record and report actual progress. It shall show how the Contractor plans to complete the work within the contract time and meet any contractually specified intermediate milestone dates.

1.2 RELATED REQUIREMENTS

A. Specified Elsewhere:

1. Section 01 11 00 - Project Summary
2. Section 01 33 23 - Shop Drawings, Product Data and Samples

1.3 FORM OF SCHEDULE

A. The schedule shall provide sufficient detail and clarity so that the General Contractor can plan and control the work and the Owner and the A/E can readily monitor and follow the progress of all portions of the work. The critical activities must be clearly shown. The degree of detail must be satisfactory to the A/E and the Owner.

1. Scope of work should be identified by floor level as applicable.
2. Scope of work should be identified further by subcontractor and by CSI division.

B. The project schedule shall be in the form of a Gantt chart, and shall indicate the critical path, including durations.

1.4 CONTENTS OF SCHEDULE

A. The schedule must be inclusive of all installation tasks of the work.

B. Submittal and approval of shop drawings and material samples as well as delivery dates of major equipment shall be included in the project schedule.

C. Activity duration shall be in whole working days.

D. There should be at least one activity for each specification section.

1.5 UPDATING

A. The project schedule shall be updated monthly.

B. Actual activity completion dates shall be reported and recorded on the schedule.

C. Progress on uncompleted activities shall be reported.

D. Projected completion dates and activities shall be reviewed and revised if necessary.

1.6 REPORTS AND SUBMITTALS

A. Within 15 days of the Authorization to Proceed, the Contractor shall submit the project schedule to the A/E and the Owner.

B. Five (5) days prior to the pay/progress meeting, the contractor shall submit the current updated schedule to the A/E and the Owner.

1.7 REVIEWS

A. Payment and reduction of retainage may be denied by the Owner for failure to submit a proper schedule and maintaining work progress according to the project schedule.

2. PRODUCTS

(NOT APPLICABLE)

3. EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 32 00

SECTION 01 33 23 - SHOP DRAWINGS, PRODUCT DATA & SAMPLES

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. The Sub-contractor shall make submittals to the General Contractor. The General Contractor shall maintain a master list of submittals.

B. Submittals shall be complete and legible. Incomplete submittals will be returned and not reviewed.

1.2 GENERAL CONTRACTOR:

A. Review Sub-contractor's submittals within 5 business days.

1. Verify field dimensions.
2. Verify compliance with Contract requirements.

1.3 RELATED REQUIREMENTS

A. Specified elsewhere:

1. Submittals specific to each section are further outlined within the technical specifications. Submittals deemed incomplete or not indication as supplied by separate sub, shall be returned without review.

1.4 DEFINITIONS

A. Shop drawings: Shop drawings are original drawings prepared by Contractor, subcontractor, sub-subcontractor, supplier or distributor, which illustrated some portion of the work, showing fabrication, layout, setting or erection details.

1. Prepared by qualified detailer.
2. Identify details by reference to sheet and detail numbers shown on contract drawings.
3. Maximum sheet size: 30" x 42"
4. Submit a maximum of (3) copies. Electronic copies of submittals are preferred.

B. Product data:

1. Manufacturer's standard schematic drawings edited to fit this project.
2. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations and other standard descriptive data.

a. Clearly mark each copy to identify pertinent materials, products or models.
b. Show dimensions and clearances.
c. Show wiring diagrams and controls.

C. Samples: Physical samples to illustrate materials, equipment or workmanship. Approved samples establish standards by which complete work is judged. Maintain at site as directed. Protect until no longer needed.

1. Office samples: Of sufficient size to clearly illustrate:

a. Functional characteristics of product or material.
b. Full range of color samples.
c. After review, samples may be used on construction of project.

2. Field samples and mock-ups:
    a. Erect at project site at location approved by the Architect.
    b. Construct each sample or mock-up complete, including work of all crafts required in finished work.
    c. Remove as directed.

1.5 SUBMITTAL SCHEDULE

A. Submit schedule of all exhibits to Architect/Engineer within fifteen (15) business days after preconstruction meeting.

1. Prepare schedule in gnatt chart format, Include:
    a. Exhibit identification
    b. Specification section and page number
    c. Date of submittal to Architect/Engineer
    d. Latest date for final approval
    e. Fabrication time.
    f. Date of Installation
2. Architect/Engineer will review and comment on exhibit schedule and will advise the Contractor as to which submittals require longer review durations.
3. Submit number of copies of shop drawings, product data and samples which contractor requires for distribution plus (2) copies which will be retained by Architect/Engineer.

B. Accompany submittals with transmittal letter, in duplicate, containing:

1. Date
2. Project title and number
3. Contractor's name and address.
4. The number of shop drawings, product data and samples submitted.
5. Notification of deviations from Contract.
6. Other pertinent data.

C. Submittals shall include:

1. Date and revision
2. Project title and number
3. Name of:
    a. Architect/ Engineer
    b. Architect/ Engineer consultant
    c. Subcontractor
    d. Sub-subcontractor
    e. Supplier
    f. Manufacturer
    g. Separate detailer when pertinent
4. Identification of product or material.
5. Relation to adjacent structure or material.
6. Field dimensions clearly identified as such.
7. Specification section and page number.
8. Specified standards, such as ASTM number or ANSI.
9. A blank space, (5"x5"), for Architect/Engineer's stamp.
10. Identification of previously approved deviation(s) from contract documents.

11. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of field measurements and compliance with Contract.
12. Space for Contractor's approval stamp.

D. Electronic Submittals: All submittals may be submitted electronically except for those specifically listing a requirement for paper submittals or physical samples. Identify and incorporate information in each electronic submittal file as follows:

1. Assemble complete submittal package into a single file (pdf format) incorporating submittal requirements of a single Specification Section and transmittal form. Only complete submittals will be accepted.
2. Name file with submittal number or other unique identifier, including revision identifier.
   a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g.; PROJNAME_061000.01). Resubmittals shall include an alphabetic suffix after the decimal point (e.g.; PROJNAME_061000.01A)
3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Using Agency/ Architect/ Engineer.
4. Transmittal Cover Sheet Form for Electronic Submittals: As described by the Architect and containing all information as indicated above for paper submittals.

1.6 RESUBMISSION REQUIREMENTS

A. Resubmit all shop drawings, product data, and samples as requested by the Contractor and/or A/E.

B. Resubmit complete package to Architect within 14 days of receiving rejected submittal.

1.7 RESPONSIBILITIES

A. Review shop drawings, product data and samples prior to submission to the next level of authority. Review Subcontractor's submittals within five (5) business days. Certify review and transmit to Architect.

B. Verify:

1. Field dimensions.
2. Field construction criteria.
3. Catalog numbers and similar data.
4. Verify compliance with contract documents.

C. Coordinate each submittal with requirements of:

1. The work.
2. The contract documents.
3. The work of other contractors.
4. The existing conditions indicated to remain.

D. Contractor's responsibility for errors, omissions or deviation from contract documents in submittals is not relieved by the Architect/Engineer's review of submittals.

E. Prior to submission, notify the Architect/Engineer in writing of all proposed deviations in submittals from Contract requirements. Substitution of materials or equipment may only be approved by change order.

F. Do not begin any work which requires submittals without Architect/Engineer's approval.

G. After Architect/Engineer's review, make response required by A/E's stamp and distribute copies. Indicate by transmittal that copy of approved data has been delivered to installer.

1.8 ARCHITECT/ENGINEER'S RESPONSIBILITIES

A. Review submittals within fourteen (14) calendar days.

B. Review for:

1. Design concept of project.
2. Compliance with Contract Documents.

C. Review all requests for proposed deviations.

D. Affix stamp, date and initials or signature certifying review of submittal, and with instructions for the Contractor.

E. Return submittals to sender for response or distribution.

2. PRODUCTS
(NOT APPLICABLE)

3. EXECUTION
(NOT APPLICABLE)

END OF SECTION 01 33 23

SECTION 01 35 16 - REMODELING PROJECT PROCEDURES

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. Each Contractor:

1. Coordinate work of employees and subcontractors.
2. Schedule elements of remodeling and renovation work to expedite completion.
3. Schedule noisy or hazardous work to avoid problems with Owner's operations.
4. In addition to demolition, cut, move or remove existing construction to provide access or to allow remodeling and new work to proceed. Include:

   a. Repair or remove hazardous or unsanitary conditions.
   b. Remove abandoned piping, conduit and wiring.
   c. Remove unsuitable or extraneous materials not marked for salvage, such as rotted wood, brick paving, rusted metals and deteriorated concrete.

5. Patch, repair and refinish existing items to remain, to the specified condition for each material, with a neat transition to adjacent new or restored construction.
6. Note or record existing project conditions before beginning work to minimize later disputes.

1.2 RELATED REQUIREMENTS

A. Specified elsewhere:

1. 01 32 00 - Construction Schedule.
2. 01 51 50 – Use of Existing Facilities
3. 01 73 29 - Cutting and Patching
4. 01 74 13 - Construction Cleaning
5. 01 74 23 - Final Cleaning.

1.3 SEQUENCE AND SCHEDULES

A. Submit separate detailed sub-schedule for alterations work, coordinated with Construction Schedule. Show:

1. Each stage of work; occupancy dates of areas.
2. Date of Substantial Completion for each area of alteration work.
3. Crafts and subcontractors employed in each stage.

1.4 ALTERATIONS, CUTTING AND PROTECTION

A. Cut finish surfaces by methods to terminate surfaces in a straight line at a natural point of division.

2. PRODUCTS (NOT USED)

3. EXECUTION

3.1 REMOVE EXISTING CONSTRUCTION

A. Temporary Removals:

1. Remove all items as noted on the drawings or otherwise required to complete the work shown.
2. Store all items as noted on the drawings or otherwise required to complete the work shown.
3. Recondition all existing items as noted on the drawings or otherwise required to complete the work shown.
4. Reinstall all items as noted on the drawings or otherwise required to complete the work shown.

B. Remove and dispose of existing items as noted in the documents.

3.2 PERFORMANCE. Patch and extend existing work using skilled craftsmen capable of matching existing quality of workmanship. For patched or extended work, provide quality equal to that specified for new work.

3.3 DAMAGED SURFACES

A. Patch and replace all portions of existing finished surfaces found to be damaged, lifted, discolored or showing other imperfections, with matching material.

1. Provide adequate support prior to patching the finish.
2. Refinish patched portions of painted or coated surfaces in a manner to produce uniform color and texture over entire surface.
3. When existing surface cannot be matched, refinish entire surface to nearest intersections or change of direction.

3.4 TRANSITION FROM EXISTING TO RESTORED WORK

A. When restored work abuts or finishes flush with existing work, make a smooth transition. Patched work shall match existing adjacent work in texture and appearance.

1. When finished surfaces are cut in such a way that a smooth transition with restored work is not possible, terminate existing surface in a neat manner along a straight line at a natural line of division, and provide trim appropriate to finished surface.

3.5 CLEANING

A. Perform construction cleaning as specified in 01 74 13

B. At completion of work of each craft, clean area and make surfaces ready for work of successive crafts.

C. At completion of alterations work in each area, provide final cleaning in accord with 01 74 23 and return space to a condition suitable for use of User.

END OF SECTION 01 35 16

SECTION 01 51 50 - USE OF EXISTING FACILITIES

1. GENERAL

1.1 These requirements supplement and other sections of the Project Manual.

1.2 The Owner and public will not use the facility during construction if installation is prior to March 1, 2024. Portions of the parking lot may be used by the Owner and other contractors during construction. Some limited closure or barricades are expected for portions of the work. Contractor is responsible for coordinating all closures with Champaign County and other contractors as necessary.

1.3 REQUIREMENTS INCLUDE - Contractor provide:

A. Scheduling

B. Security and site regulations

C. Entrances (if required)

D. Construction aids

E. Temporary enclosures and barriers

F. Fences

G. Temporary utilities

H. Construction Cleaning

I. Storage

J. Close-out

2. EXECUTION

2.1 SECURITY AND SITE REGULATIONS

A. Confer with the Owner's representative and obtain full knowledge of all site rules and regulations affecting work.

2.2 CONSTRUCTION AIDS: Except as noted, Contractor provide and maintain construction aids and equipment for common use and to facilitate execution of the work.

2.3 TEMPORARY ENCLOSURES AND BARRIERS - Contractor:

A. Provide temporary enclosures to separate work areas from existing parking and from areas occupied by Owner.

B. Provide and maintain suitable barriers to prevent unauthorized entry, and to protect the work.

2.4 TEMPORARY UTILITIES

A. Contractor shall provide and pay for extension or modification of services to perform the work, and for restoration of services at completion of work.

2.5 ACCESS ROADS & PARKING AREAS

A. Limit any loading of existing paved areas to 4000 p.s.i. maximum.

B. Use of existing parking facilities for construction personnel or for contractor's vehicles or equipment is limited. Coordinate with Owner and contractor on site.

C. Maintain roads, walks and parking areas in a sound, clean condition. Restore areas, damaged by construction operations, not in contract to original condition upon work completion prior to Final Acceptance.

D. Control vehicular parking to preclude interference with public traffic or parking, access by emergency vehicles, Owner's operations or construction operations.

E. Coordinate any temporary construction vehicle entrance onto the property for deliveries or access with the Owner a minimum of five (5) days prior to the necessity.

F. Equipment with bearing pressure above 4000 psi shall not be allowed on the grounds or on the elevated parking deck.

2.6 TRAFFIC REGULATION: Contractor provide traffic control and directional signs, mounted on barricades or standard posts:

A. At each change of direction of a roadway and at parking areas.

B. Provide qualified and suitably equipped flaggers when construction operations encroach on traffic lanes, as required for traffic regulation.

C. Where contractor requires sidewalk closure to execute scope of work, permits and alternative access for pedestrians shall be provided in the work of this contract.

2.7 CONSTRUCTION CLEANING

A. General Contractor shall provide cleaning and disposal of waste materials, debris and rubbish during construction.

B. General Contractor to supervise and coordinate cleaning operations of all Sub-Contractors.

C. General Contractor shall provide covered containers for deposit of waste materials, debris and rubbish.

2.8 STORAGE: Make arrangements with Owner's Representative for any on-site storage of materials and equipment to be installed in project. Protection and security for stored materials and equipment is solely contractor's responsibility.

2.9 CLOSEOUT

A. Upon completion of need to use existing user-provided facilities, or when directed by Architect/Engineer, restore each to original or specified condition.

B. At completion of work in each area, provide final cleaning and return space to a condition suitable for use of Owner.

END OF SECTION 01 51 50

SECTION 01 54 00 – CONSTRUCTION AIDS

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDE

A. Contractor shall provide all labor and material to install and maintain construction aids and equipment for all personnel use and to facilitate execution of the work:

1. Ladders, working platforms and Scaffolding/Fall Protection.
2. Heavy Equipment.
3. Temporary enclosures, electrical power & water services, etc.
4. Construction Barriers, and dust/noise/fume separations.
5. Platforms.
6. Stairs.
7. Power and hand tools.

B. Each Contractor must comply with OSHA regulations as they relate to these construction aids and all applicable standards.

C. See respective specification sections for particular requirements.

D. Provide and maintain for own forces all other construction aids required to complete his work.

E. Remove all construction aids upon completion of the work, or as directed.

1.2 RELATED REQUIREMENTS

A. Specified elsewhere:

1. Section 01 11 00 - Project Summary.
2. Section 01 51 50 – Use of Existing Facilities.
3. Section 01 74 23 - Final Cleaning.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Materials may be new or used, suitable for purpose. Comply with specified codes, standards, and regulations.

2.2 CONSTRUCTION AIDS

A. Maintain facilities and equipment in first class, clean and operable condition.

PART 3 - EXECUTION

3.1 PREPARATION

A. Consult with Architect and Owner, review site conditions and factors which affect construction procedures and construction aids, including adjacent occupied areas which may be affected by execution of the work.

B. Coordinate with Owner for placement of barriers to maintain Owner operations, while protecting occupants form exposure to dust, noise, and fumes.

3.2 INSTALLATION

A. Comply with respective Project Manual Specification Sections.

B. Relocate construction aids as construction progresses to expedite storage or work and to accommodate legitimate requirements of the Owner and other contractors at the site.

3.3 REMOVAL:

A. Completely remove temporary materials, equipment and services:

1. When construction needs can be met by authorized use of permanent construction.
2. At project completion.

B. Clean and repair damage caused by installation or use of temporary facilities.

C. Restore existing facilities used for temporary purposes to original condition.

END OF SECTION 01 54 00

SECTION 01 56 00 - TEMPORARY BARRIERS AND ENCLOSURES

PART I - GENERAL

1.1 WORK INCLUDES

A. Base Bid: Use of Barriers and Enclosures: The Contractor shall provide all labor and materials necessary to furnish, erect and maintain temporary barriers, barricades, enclosures, and temporary construction fencing as required for the following:

1. To provide weather tight protection of building as roofing or deck is removed as part of the work in contract.
2. To protect the health and safety of occupants and the general public from exposure to immediate physical harm as well as to noise, dust, and fumes. Note that this Section does not provide minimum requirements related to Indoor Air Quality.
2. To protect new and pre-existing adjacent construction from exposure to physical damage, dust, dirt, and water.
3. To provide security of valuable property.
4. To protect trees and plants.

1.2 RELATED SECTIONS

A. Section 01 54 00 - Construction Aids

PART 2 - PRODUCTS

2.1 GENERAL FABRICATION

A. Substantial Construction: Barriers and enclosures shall be of adequately substantial construction to serve their purpose without failure throughout the duration of their use. Materials may be new or used, suitable for the intended purpose, but shall not violate requirements of applicable codes and standards.

B. Rigid Fencing: The general public, as well as adjacent lawns and plantings, shall be protected from harm by the installation of continuous, durable, rigid 6 foot high fencing at the limit lines of each construction area.

C. Dust enclosures.

PART 3 - EXECUTION

3.1 BASIC REQUIREMENTS

A. Install facilities of a neat and reasonable uniform appearance, structurally adequate for required purposes.

B. Install barriers and enclosures so as to not create new hazards such as tripping or protrusions that might be a source of safety concern to pedestrians or passers by.

C. Establish reasonable alternative access when necessary due to placement of barriers.

D. Maintain barriers during entire construction period.

E. Relocate barriers as required by progress of construction.

3.2 DUST ENCLOSURES

A. Dust enclosures shall be continuous barriers with a rigid frame, made of clean materials, which will prevent dust from leaving work areas. Additionally, they may be required to resist noise and fumes as necessitated by contractors work plan.

3.3 REMOVAL

A. Completely remove barricades, including foundations, when construction has progressed to the point that they are no longer needed, and when approved by the Architect.

B. Clean and repair damage caused by installation, fill and grade areas of the site to required elevations and slopes, and clean the area.

END OF SECTION 01 56 00

SECTION 01 62 04 – SUBSTITUTION PROCEDURES

1. GENERAL

1.1 SUMMARY

A. Section Includes:

1. Administrative and procedural requirements for substitutions.

1.2 SUBSTITUTIONS

A. Base Bid shall be in accordance with the Contract Documents.

B. Substitution requests prior to bidding shall be submitted to Architect, in writing, a minimum of ten (10) days prior to bid date.

C. After the end of the bidding period, substitution requests will be considered only in case of:

1. Product unavailability
2. Other conditions beyond the control of the Contractor

D. Substitution Requests: Submit PDF electronic file of each request submitted for consideration. Identify product or fabrication or installation method to be replaced. Submit requests for substitutions on attached form. Submit a separate request form for each substitution. Include Specification Section number, title, and Drawing numbers and titles. Support each request with the following information:

1. Complete data substantiating compliance of proposed substitution with requirements stated in Contract Documents:

a. Product identification, including manufacturer's name and address.
b. Manufacturer's literature, identifying:

1) Product description
2) Reference standards
3) Performance and test data

2. Itemized comparison of the proposed substitution with product specified, listing significant variations.
3. Data relating to changes in construction schedule.
4. Effects of substitution on separate contracts.
5. List of changes required in other work or products.
6. Accurate cost data comparing proposed substitution with product specified.

a. Amount of net change to Contract Sum

7. Designation of required license fees or royalties.
8. Designation of availability of maintenance services sources replacement materials.

E. Substitutions will not be considered for acceptance when:

1. A substitution is indicated or implied on shop drawings or product data submittals without a formal request from the Contractor.
2. Acceptance will require substantial revision of Contract Documents.
3. In judgment of the Architect, the substitution request does not include adequate information necessary for a complete evaluation.
4. Requested directly by a Subcontractor or supplier.

F. Substitutions for Convenience: Not allowed

G. Do not order or install substitute products without recommendation of the Architect and acceptance by the Owner/Using Agency.

H. Architect will determine acceptability of proposed substitutions.

I. No verbal or written approvals other than by Change Order will be valid.

1.3 CONTRACTOR'S REPRESENTATION

A. In making formal request for substitution the Contractor represents that:

1. The proposed product has been investigated and it has been determined that it is equivalent, or superior, in all respects to the product specified.
2. The same warranties or bonds will be provided for the substitute product as for the product specified.
3. Coordination and installation of the accepted substitution into the Work will be accomplished and changes as may be required for the Work to be complete will be accomplished.
4. Claims for additional costs caused by substitution which may subsequently become apparent will be waived by the Contractor.
5. Complete cost data is attached and includes related costs under the Contract, but not:

a. Costs under separate contracts.
b. Architect's costs for redesign or revision of Contact Documents.

1.4 REQUEST FOR SUBSTITUTION FORM

A. 01 62 04.1 – Substitution Request Form

B. Substitutions will be considered only when the substitution form is completed and included with the request for substitution submittal and back-up data.

2. PRODUCTS

(NOT APPLICABLE)

3. EXECUTION

(NOT APPLICABLE)

END OF SECTION 01 62 04

SECTION 01 62 04.1 – REQUEST FOR SUBSTITUTION FORM

REQUEST FOR SUBSTITUTION FORM

Note: Use separate form for each material, product, or equipment item.

Date: _____ Request No.: _____

Project: _____

Location: _____

Name of material, product, or equipment item submitted as substitution:

_____

Name of material, product, or equipment item specified:

_____

Specification Section _____, Article _____, Paragraph_____

Qualities that differ from specified product or system: _____

_____

_____

_____

_____

Name of Manufacturer/(Fabricator):

_____

Address

_____ (_____) _____

City, State, and Zip Telephone

_____

Name of Vendor/Supplier

_____

Address

_____ (_____) _____

City, State, and Zip Telephone

Reason for requesting substitution: _____

_____

_____

Substitution affects other materials or systems, such as dimensional revisions, redesign of structure, or modifications to other work:

_____ No

_____ Yes; describe requirements:

_____

_____

_____

If substitution requires modifications to dimensions indicated on drawings, are such modifications clearly indicated on attached data?

_____ Yes

_____ No; if no, explain: _____

Substitution has an effect on construction schedule:

_____ No

_____ Yes; describe effect on schedule:

_____

_____

_____

Savings or credit to Contract Amount for accepting substitute:

_____

_____Dollars ($_____)
Written Amount Amount in Figures

The attached data is furnished herewith for evaluation of the substitution:

Product Data _____, Drawings _____, Samples _____, Tests _____, Reports _____

Other Information _____

The undersigned hereby certifies:

1. The proposed substitution has been fully investigated and is equal or superior to specified product.

2. The same or better warranty will be furnished for proposed substitution as for specified material, product or equipment.

3. All changes in the work resulting from the use of this substitution, if approved, will be coordinated and completed in all respects and all costs, including, but not limited to, those for additional services rendered by the Architect are the responsibility of this Contractor at no additional cost to the Contract.

_____ _____
Contractor Signed by

_____
Address

_____
City, State, and Zip

For Use by Architect:
____Recommend
____Not Recommended
____Insufficient Data
____Recommend as Noted
____Received Too Late

By:_____
Date: _____

For Use by Owner:
____Approved
____Not Approved
____Approved as Noted

By: _____
Date: _____

END OF FORM

SECTION 01 66 00 - STORAGE AND PROTECTION

1. GENERAL

   A. REQUIREMENTS INCLUDE

      1. General Contractor make arrangements with Owner for storage of materials and equipment to be installed in project. Protection and security for stored materials and equipment, on and off site is solely contractor's responsibility.

   B. OFF-SITE AUTHORIZATION. Payment for materials/equipment stored off-site will be permitted only on prior written authorization, proof of insurance is submitted, and the material is stored in an independent warehouse under the owner's name and paid for by the contractor.

   C. SUBMITTALS.

      1. In accordance with Section 01 33 23, submit:

         a. Request for allocation of storage space.
         b. List of materials and equipment to be stored.
         c. Proposed location for storage.
         d. Special storage requirements.
         e. Schedule of anticipated storage dates.

2. PRODUCTS

   A. PROTECTIVE MATERIALS

      1. For duration of storage period, provide materials which will provide proper protection against the elements or other harmful environmental conditions.

3. EXECUTION

   A. LOCATION

      1. Where authorized by Owner.

      2. Contractor will resolve conflicts in storage requirements of all subcontractors.

   B. PROTECTION

      1. Appropriate protection is required as necessary to maintain quality and intent of stored materials.

END OF SECTION 01 66 00

SECTION 01 73 29 - CUTTING AND PATCHING

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. Unless noted otherwise, each contractor shall:

1. Execute cutting (including excavating), filling or patching of work to:

   a. Install specified work.
   b. Remove samples of installed work specified for testing.
   c. Remove and replace defective work.

2. In addition, upon written instructions of Architect/Engineer:

   a. Uncover work to provide for observation of covered work.
   b. Remove samples of installed materials for testing.
   c. Remove work to provide for alteration of existing work.

3. Do not cut or alter work of another contractor without written consent of Architect/Engineer.

1.2 SUBMITTALS

A. Prior to cutting which affects structural members or work of another contractor, submit written notice to Architect/Engineer requesting consent to proceed with cutting, including:

1. Project identification.
2. Description of affected work.
3. Necessity for cutting.
4. Effect on other work, on structural integrity of project.
5. Description of proposed work. Designate:

   a. Scope of cutting and patching.
   b. Contractor and Crafts to execute the work.
   c. Products proposed to be used.
   d. Extent of refinishing.

6. Alternatives to cutting and patching.
7. Designation of party responsible for cost of cutting and patching.

B. Prior to cutting and patching done on instruction of Architect/ Engineer, submit cost estimate.

C. When conditions of work, or schedule, indicate change of materials or methods, submit recommendation to Architect/Engineer, including:

1. Condition indicating change.
2. Recommendation for alternative materials or methods.
3. Submittals specified for substitutions.

D. Submit written notice to Architect/Engineer, designating time work will be uncovered, to provide for observation.

1.3 PAYMENT FOR COSTS

A. Costs caused by ill-timed or defective work, or work not conforming to contract documents, including costs for additional services of Architect/Engineer: Party responsible for ill-timed, rejected or non-conforming work.

B. Work done on instructions of Architect/Engineer (by change order only), other than defective or non-conforming work: Owner

2. PRODUCTS

2.1 MATERIALS. For replacement of work removed: Comply with specifications for type of work to be performed.

3. EXECUTION

3.1 INSPECTION

A. Inspect existing conditions of work, including elements subject to movement or damage during:

1. Cutting and patching.
2. Excavating and backfilling.

B. After uncovering work, inspect conditions affecting installation of new products.

3.2 PREPARATION

A. Prior to cutting:

1. Provide shoring, bracing and support to maintain structural integrity of project.
2. Provide protection for other portions of the project.
3. Provide protection from elements.

3.3 PERFORMANCE

A. Execute fitting and adjustment of products to provide finished installation to comply with specified tolerances, finishes.

B. Execute cutting and demolition by methods which will prevent damage to other work, and will provide proper surfaces to receive installation of repairs and new work.

C. Restore work which has been cut or removed; install new products to provide completed work in accord with contract documents.

D. Refinish entire surfaces to provide an even finish.

E. Continuous surfaces: To nearest intersection(s).

F. Assembly: Entire refinishing.

END OF SECTION 01 73 29

SECTION - 01 74 13 - CONSTRUCTION CLEANING

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. General Contractor: Supervise and coordinate cleaning operations.

1.2 RELATED REQUIREMENTS

A. Specified elsewhere:

1. Individual Specification Sections: specific cleaning for product or work.
2. Section 01 35 16 – Remodeling Project Procedures

2. PRODUCTS

2.1 EQUIPMENT

A. As designated in individual specification sections.

3. EXECUTION

3.1 CLEANING

A. As designated in individual specification sections.

3.2 DISPOSAL

A. Maintain individual disposal units for sorting of debris for recycling and general disposal.

B. Properly dispose of all contents of dumpsters off site in an environmentally friendly manner and in compliance with local, state and federal regulations.

C. No burning of debris or materials is acceptable on site.

D. All hazardous materials shall be disposed of off-site in an EPA approved facility.

END OF SECTION 01 74 13

SECTION - 01 74 23 - FINAL CLEANING

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. Contractor: Provide final cleaning:

1. At completion of work, or at such other times as directed by the Contractor, remove all waste, debris, rubbish, tools, equipment, machinery and surplus materials. Clean all sight exposed surfaces; leave work clean and ready for occupancy.

1.1 RELATED REQUIREMENTS

A. Specified elsewhere:

1. Section 01 74 13 - Construction Cleaning.

2. PRODUCTS

2.1 All products shall be environmentally friendly “Green” cleaning products.

3. EXECUTION

3.1 FINAL CLEANING

A. Employ experienced workmen for final cleaning.

B. Remove grease, dust, dirt, stains, labels, fingerprints, protection and other foreign materials from sight-exposed finished surfaces; polish surfaces so designated to specified finish.

1. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed surfaces, and of concealed spaces to ensure performance.

C. Repair, patch and touch up marred surfaces to specified finish, to match adjacent surfaces.

D. Contractor soft broom clean all exposed concrete surfaces clean; other paved areas with soft or stiff broom as directed. Rake clean other surfaces on grounds.

E. Contractor to maintain finally cleaned areas until project, or designated portion thereof, is accepted by A/E.

END OF SECTION 01 74 23

SECTION 01 78 36 - WARRANTIES & BONDS

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. Each Contractor shall warrant their work in accordance with the Standard Documents for Construction. In addition, the following Warranties and Bonds shall be provided as specified.

B. Champaign County will be the designated agent during the warranty period.

2. PRODUCTS

A. Warranties and Bonds. Include the following:
   1. Warranty and/or bond.
   2. List of circumstances and conditions that would affect validity of warranty or bond.

3. EXECUTION (NOT APPLICABLE)

END OF SECTION 01 78 36

SECTION 02 41 19 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 WORK INCLUDES

A. Contractor shall provide all labor, materials, equipment and supplies necessary for

1. Demolition and removal of selected portions of building as noted on the drawings and as required to complete the work shown on the drawings.

B. General Contractor is responsible for providing the penetrations, and patching required to complete their work in the Contactor's respective division.

1.2 RELATED SECTIONS

A. Section 01 35 16 – Remodeling Project Procedures.

B. Section 01 73 29 – Cutting and Patching.

1.3 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and returned to owner or removed and reinstalled.

B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Using Agency/University cleaned and ready for reuse.

C. Remove and Reinstall: Detach items from existing construction, clean and prepare for reuse, and reinstall where indicated.

D. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 INFORMATIONAL SUBMITTALS

A. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property for dust control and for noise control. Indicate proposed locations and construction of barriers.

B. Schedule of Selective Demolition Activities: Indicate the following:

1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
2. Interruption of utility services. Indicate how long utility services will be interrupted.
3. Coordination for shutoff, capping, and continuation of utility services.
4. Coordination on the use of elevator and stairs.

C. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.
   1. Coordinate on-site with Owner's representative.

D. Pre-demolition Photographs or Video: Submit before Work begins.
   1. Any damage not documented as pre-existing will be repaired by contractor.

E. Warranties: Documentation indicated that existing warranties are still in effect after completion of selective demolition.

F. Closeout Submittals
   1. Inventory: Submit a list of items that have been removed and salvaged

1.5 QUALITY ASSURANCE

A. Pre-demolition Conference: Conduct conference at Project site. General Contractor, demolition contractor, project managers, site Forman, and Architect shall be in attendance if work impacts other trades, a representative from those contractors shall also be in attendance.
   1. Inspect and discuss condition of construction to be selectively demolished.
   2. Review structural load limitations of existing structure.
   3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
   4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
   5. Review areas where existing construction is to remain and requires protection.

B. Demolition Firm Qualifications: Company specializing int eh type of work required and has a minimum of five (5) years documented experience.

1.6 PROJECT CONDITIONS

A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

C. Storage or sale of removed items or materials on-site is not permitted.

D. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

E. If any suspected hazardous materials are encountered do not disturb; immediately notify Architect and Owner.

PART 2 - PRODUCTS

2.1 PEFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

C. Call the Fire Department and notify the Using Agency if the following systems will be disabled/ restricted at any time during construction/ renovation.
1. Fire Alarm.
2. Fire Suppression.
3. Emergency exit and evacuation.

D. Any construction/renovation that creates excessive dust (i.e. demolition of plaster, drywall, or flooring) must use dust barriers and negative pressure ventilation.

E. Any construction/renovation that involves temporary loss of power or ventilation must be coordinated/scheduled with the Facility Manager and will be discussed and determined at the pre-construction meeting.

F. Any construction/ renovation that creates excessive noise (i.e. jack hammering, use of power saws, power drills,) must be coordinated/ scheduled with the Facility Manager or Using Agency, which will be determined at the pre-construction meeting.

G. Any construction/ renovation that breaches/ penetrates the building envelope (roof, window, and wall) must be protected from water damage and subsequent mold growth.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Review record documents of existing construction provided by Owner. Owner and Architect do not guarantee that existing conditions are same as those indicated in record documents.

C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

E. Verify hazardous materials have been remediated where impacted, prior to proceeding with building demolition operations.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL/PLUMBING SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
   1. Comply with requirements for existing services/systems interruptions specified in Division 01 Section "Summary."

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
   1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
   2. Arrange to shut off indicated utilities with utility companies.
   3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
   4. Disconnect, demolish, and remove plumbing, and HVAC systems, equipment, and components indicated to be removed.

      a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.

      b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material. Any piping or conduit to be abandoned in place shall be approved by the Architect, otherwise all pipe and conduit abandoned shall be removed completely.

      c. Equipment to Be Removed: Disconnect and cap services and remove equipment.

      d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational. Any disruption in operations is to be scheduled with Facility Manager a minimum of 72 hours in advance and will be operational at the end of each construction day.

3.3 PREPARATION

A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
   1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."

B. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
   2. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
   3. Cover and protect furniture, furnishings, and equipment that have not been removed.

4. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Division 01 Section "Temporary Facilities and Controls."

C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
1. Strengthen or add new supports when required during progress of selective demolition.

D. Remove temporary barricades and protections where/when hazards no longer exist.

3.4 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations and for two (2) hours after operations cease.
4. Maintain adequate ventilation when using cutting torches.
5. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
6. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
7. Dispose of demolished items and materials promptly.

B. Removed and Reinstalled Items:
1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

C. Unless otherwise indicated, demolition waste becomes the property of the Contractor.

D. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials indicated to be reused, returned to Owner, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site.
   1. Do not allow demolished materials to accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

B. Burning: Do not burn demolished materials.

C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.6 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 41 19

ASBESTOS INSPECTION REPORT

at

CHAMPAIGN COUNTY PLAZA
102 E. MAIN STREET
URBANA, ILLINOIS 61801

Date of Sampling: May 27, 2022

prepared by

Reliable Environmental Solutions, Inc. RES
2760 W. Jefferson Street, Springfield, IL 62702
217.787.9800
www.ReliableEnv.com

RES Project #22220

TABLE OF CONTENTS

INTRODUCTION

I. SCOPE

Reliable Environmental Solutions, Inc. (RES) performed an asbestos inspection of the County Plaza located at 102 E. Main Street in Urbana, Illinois on May 27, 2022. The purpose of the inspection was to identify asbestos containing materials on the above referenced structure prior to renovations.

II. INSPECTION PROTOCOL

The inspection was performed in accordance with the Asbestos Hazard Emergency Response Act (AHERA) and the National Emission Standards for Hazardous Air Pollutants (NESHAP). Personnel performing the inspection are accredited by the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and are licensed by the Illinois Department of Public Health (IDPH). Credentials of the on-site licensed inspector are located in Section 5 of this report.

The intent of the inspection is to survey all areas; however, inaccessible areas that would require destructive methods to uncover suspect materials may not have been surveyed. Any suspect material discovered during a renovation or demolition that has not been identified in this report must be sampled**.**

III. SAMPLING PROTOCOL

Bulk samples of materials suspected of containing asbestos were collected in a random manner. The Summary of Findings located in Section 2 of this report identifies these suspect materials. The Summary of Findings also provides the number of samples collected for each suspect material.

Between three and seven samples were collected from each homogeneous material. A homogeneous material is a material that is uniform in color and texture and installed at the same time. The number of samples collected is dictated by AHERA based on the type of material sampled. State of the art practices require three negative results to state that a material is negative, whereas one positive result will result in the entire homogeneous area being identified as positive.

IV. ANALYSIS PROTOCOL

Samples were analyzed by TEM Environmental, Inc. of Glendale Heights, Illinois. TEM Environmental, Inc. is an NVLAP accredited laboratory. Credentials for the laboratory are located in Section 4 of this report. Samples were analyzed by Polarized Light Microscopy (PLM) according to AHERA protocol.

Friable materials found to contain less than ten percent asbestos are recommended to be point counted according to the NESHAP regulations. IDPH does not allow point counting in schools and the transmission electron microscopy (TEM) method has proven to be more reliable method for a similar cost; therefore, RES recommends utilizing TEM in lieu of point counting.

Certain non-friable materials are difficult to properly ascertain the asbestos content with the PLM method; therefore, in some circumstances the laboratory will recommend TEM analysis to determine if these materials are actually negative. The Illinois regulatory agencies will use TEM analysis to determine if a material contains asbestos; therefore, it is recommended that the non-friable materials identified by the laboratory be further analyzed by TEM.

V. SUMMARY

The County Plaza located at 102 E. Main Street in Urbana, Illinois, was inspected for asbestos containing materials. The materials found to contain asbestos are listed below.

- **MMI – Exterior stucco siding contains 10-15% Chrysotile asbestos as analyzed by Polarized Light Microscopy.**

County Plaza
Urbana, Illinois

SUMMARY OF FINDINGS BY PLM ANALYSIS

HOMO AREAS	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMI	EXTERIOR STUCCO SIDING		3		
SPA	PLASTER			3	
MCA	2' X 2' CEILING TILE, PINHOLES			3	
MCB	2' X 4' CEILING TILE, FISSURES AND PINHOLES			3	
MCC	1' X 1' CEILING TILE, GOUGES AND PINHOLES			3	
MCD	2' X 2' CEILING TILE, GOUGES AND PINHOLES, WHITE			3	
MMA	ROOF TAR UNDER FOAM			3	
MMB	FELT PAPER AND FOAM			3	
MMC	WHITE GLAZING			3	
MMD	BLOCK GLAZING			3	
MME	FELT PAPER AND FOAM			3	
MMF	ROOF TAR UNDER FOAM			3	
MMG	ROOF FLASHING			3	
MMH	VINYL BASE MASTIC			3	
MXA	DRYWALL AND COMPOUND			3	

**EPA recommends that bulk materials found negative for asbestos or less than one percent asbestos by Polarized Light Microscopy (PLM) that fall into one of five dominantly non-friable categories by reanalyzed by an additional method, such as Transmission Electron Microscopy (TEM) (EPA Notice of Advisory, FR Vol. 59, No. 146 & Test Method EPA 600/R-93/116)

MMI-1

EXTERIOR STUCCO SIDING

MMI-2

EXTERIOR STUCCO SIDING

MMI-3

EXTERIOR STUCCO SIDING

SPA-1

PLASTER

SPA-2

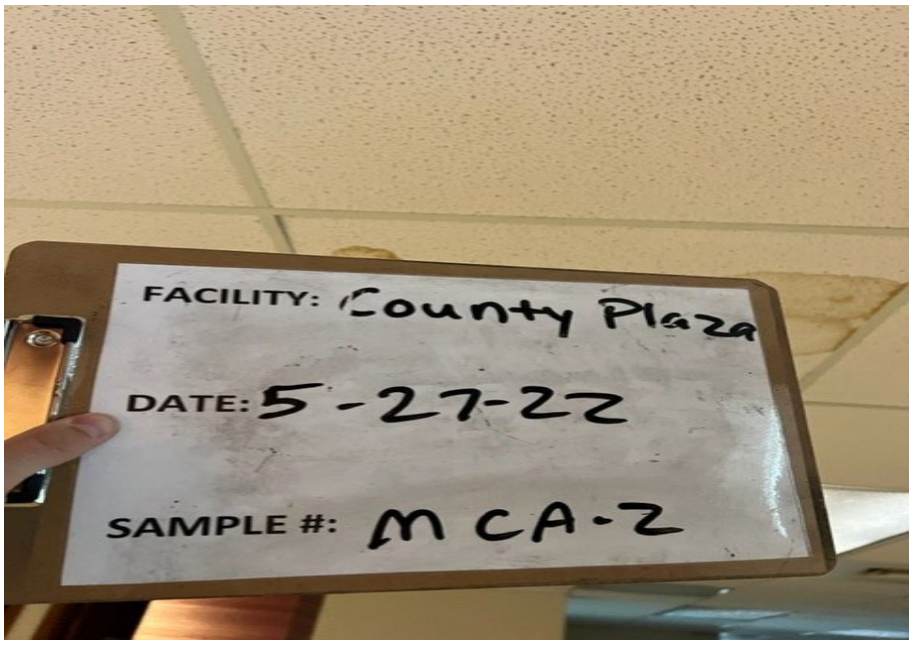
PLASTER

SPA-3

PLASTER

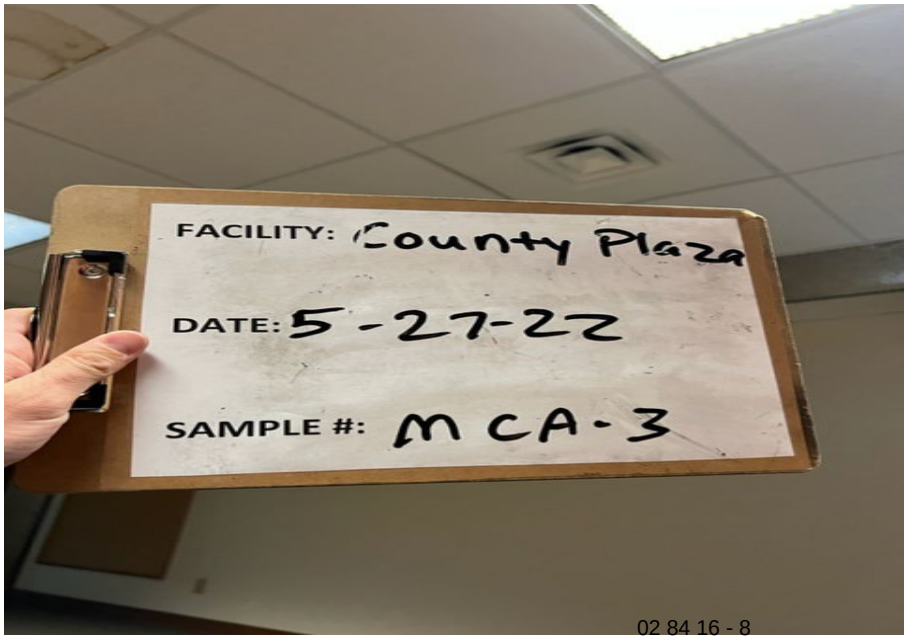
MCA-1

2’ X 2’ CEILING TILE, PINHOLES



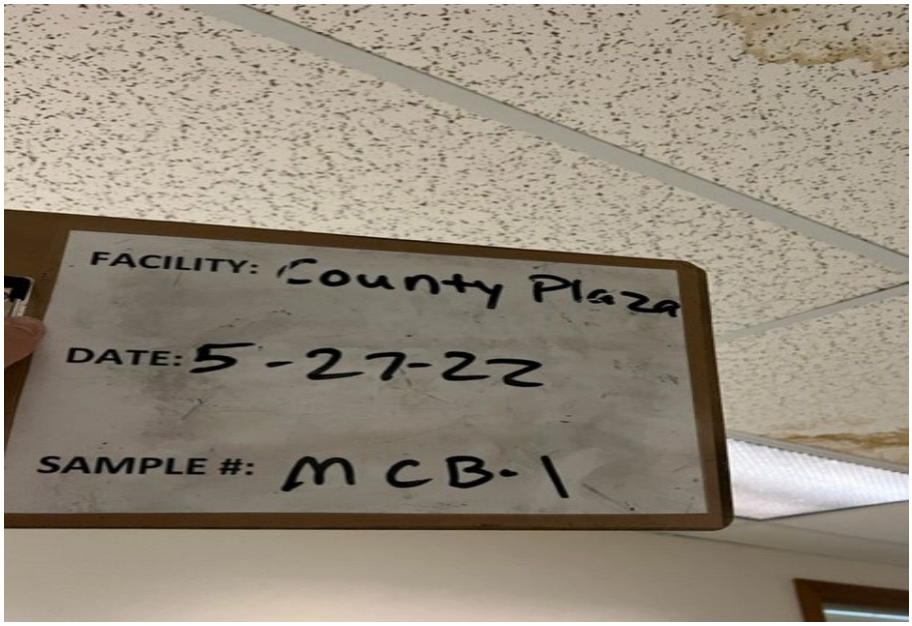
MCA-2

2’ X 2’ CEILING TILE, PINHOLES



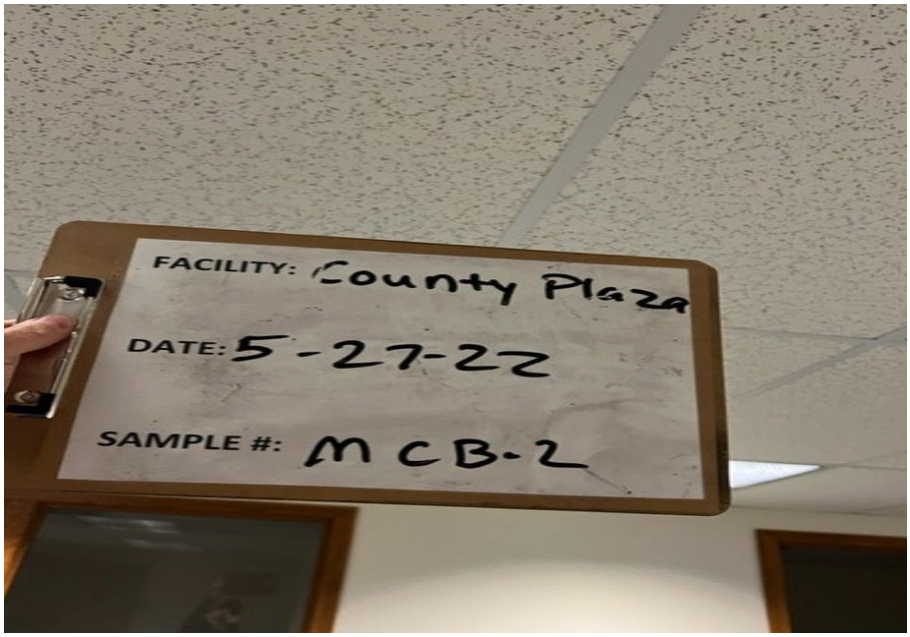
MCA-3

2’ X 2’ CEILING TILE, PINHOLES



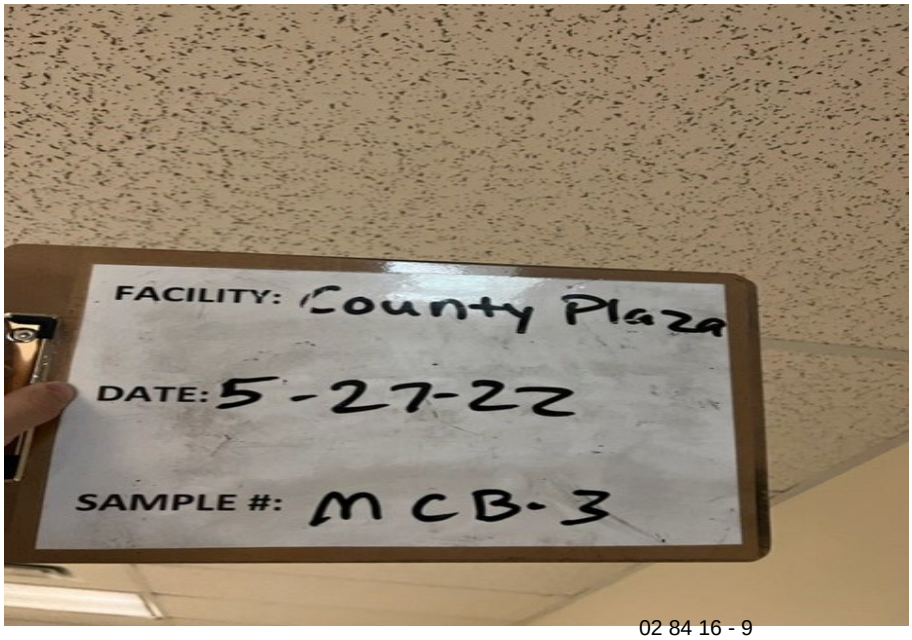
MCB-1

2’ X 4’ CEILING TILE, FISSURES AND PINHOLES



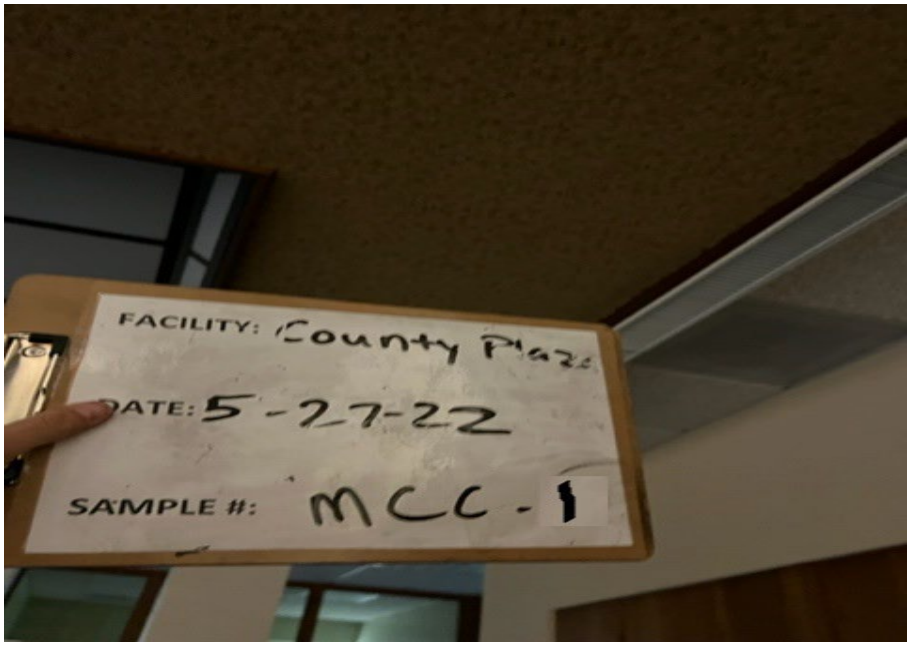
MCB-2

2’ X 4’ CEILING TILE, FISSURES AND PINHOLES



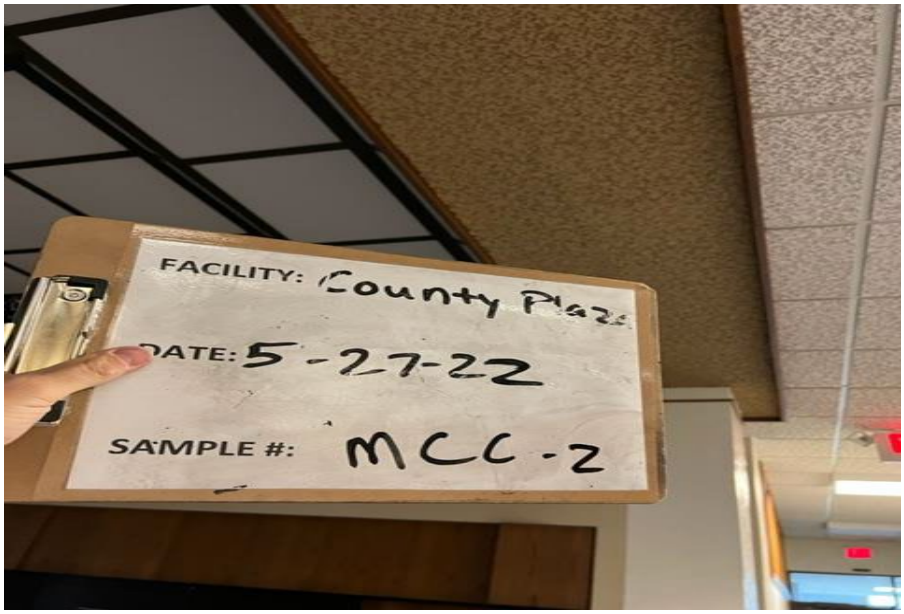
MCB-3

2’ X 4’ CEILING TILE, FISSURES AND PINHOLES



MCC-1

1' X 1' CEILING TILE, GOUGES AND PINHOLES, BROWN

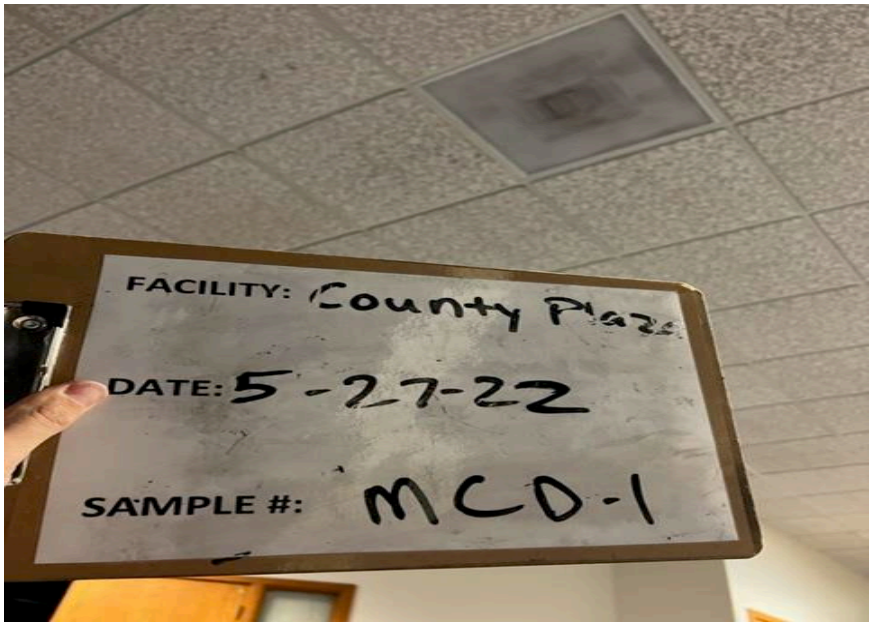


MCC-2

1' X 1' CEILING TILE, GOUGES AND PINHOLES, BROWN

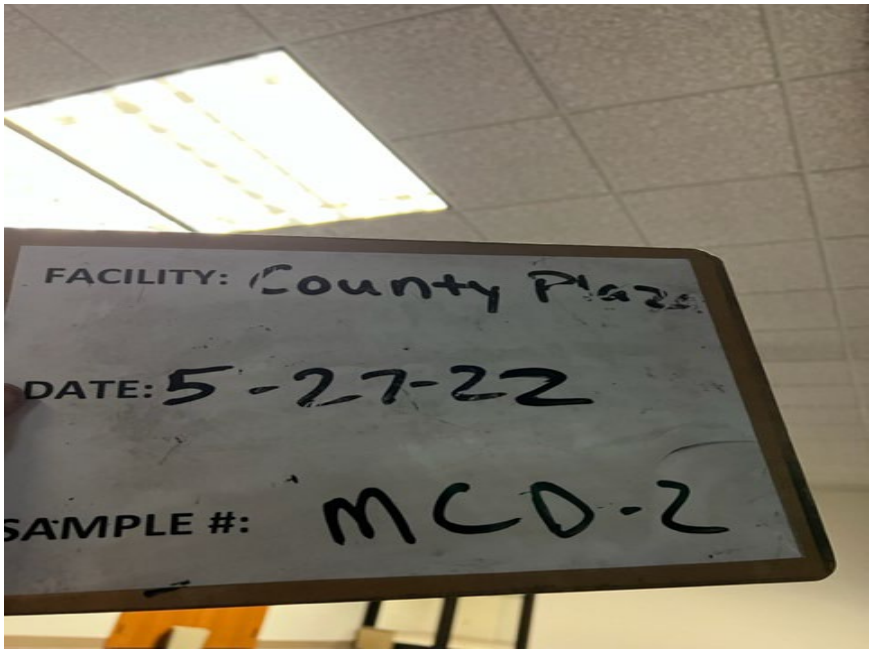
MCC-3

1' X 1' CEILING TILE, GOUGES AND PINHOLES, BROWN



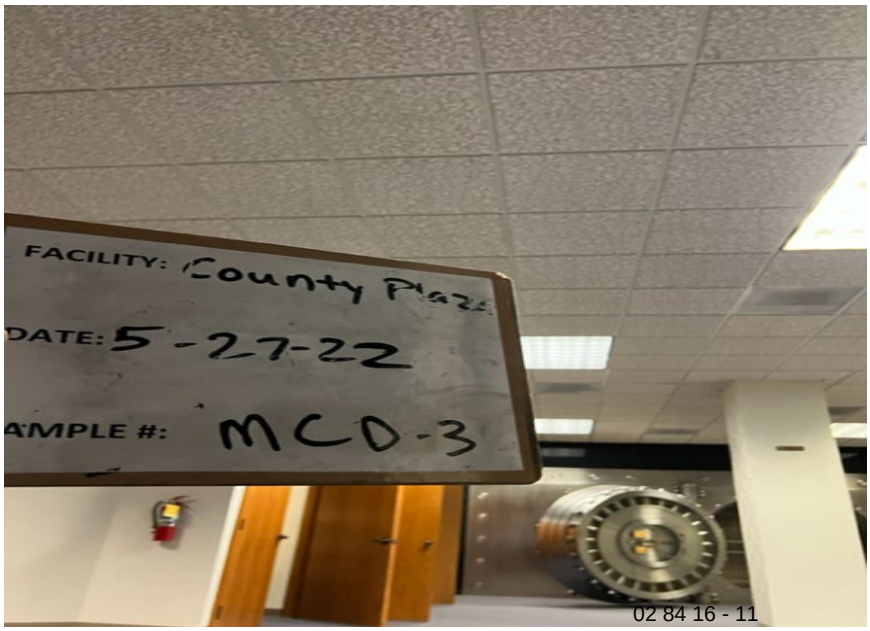
MCD-1

2' X 2' CEILING TILE, GOUGES AND PINHOLES, WHITE



MCD-2

2' X 2' CEILING TILE, GOUGES AND PINHOLES, WHITE



MCD-3

2' X 2' CEILING TILE, GOUGES AND PINHOLES, WHITE

MMA-1

TAR

MMA-2

TAR

MMA-3

TAR

MMB-1

FELT PAPER AND FOAM

MMB-2

FELT PAPER AND FOAM

MMB-3

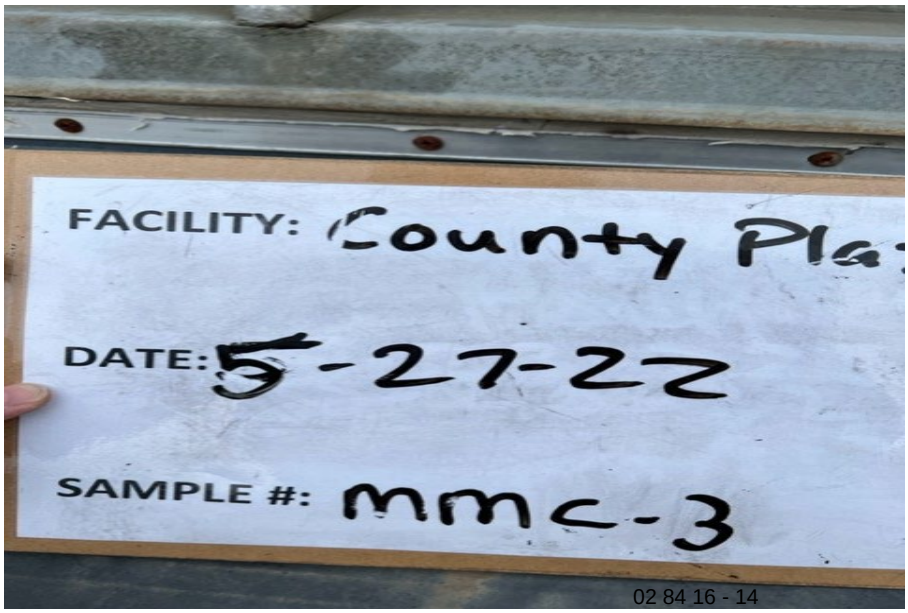
FELT PAPER AND FOAM

MMC-1

WHITE GLAZING

MMC-2

WHITE GLAZING



MMC-3

WHITE GLAZING

MMD-1

BLACK GLAZING

MMD-2

BLACK GLAZING

MMD-3

BLACK GLAZING

MME-1

FELT PAPER AND FOAM

MME-2

FELT PAPER AND FOAM

MME-3

FELT PAPER AND FOAM

MMF-1

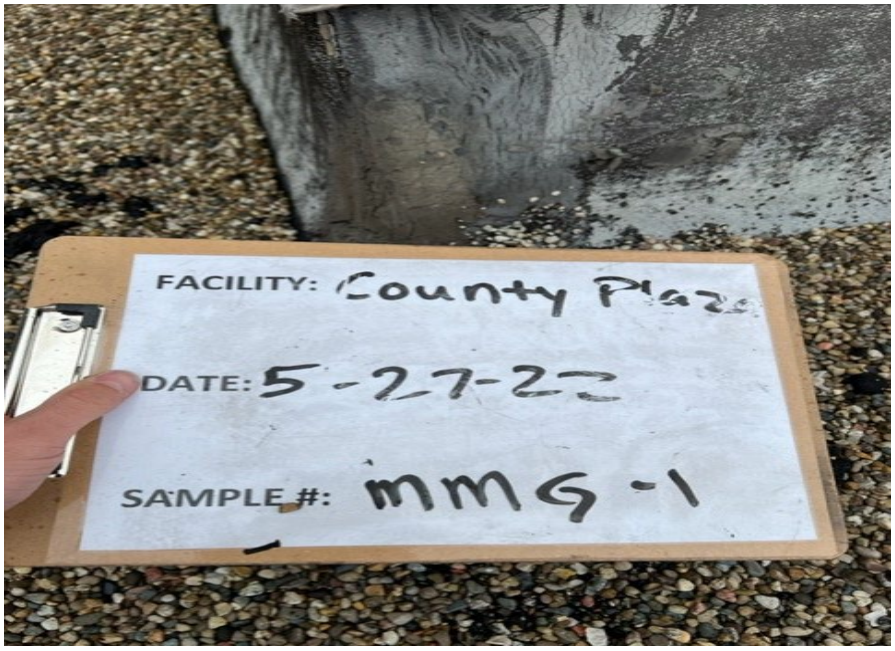
TAR UNDER FELT

MMF-2

TAR UNDER FELT

MMF-3

TAR UNDER FELT



MMG-1

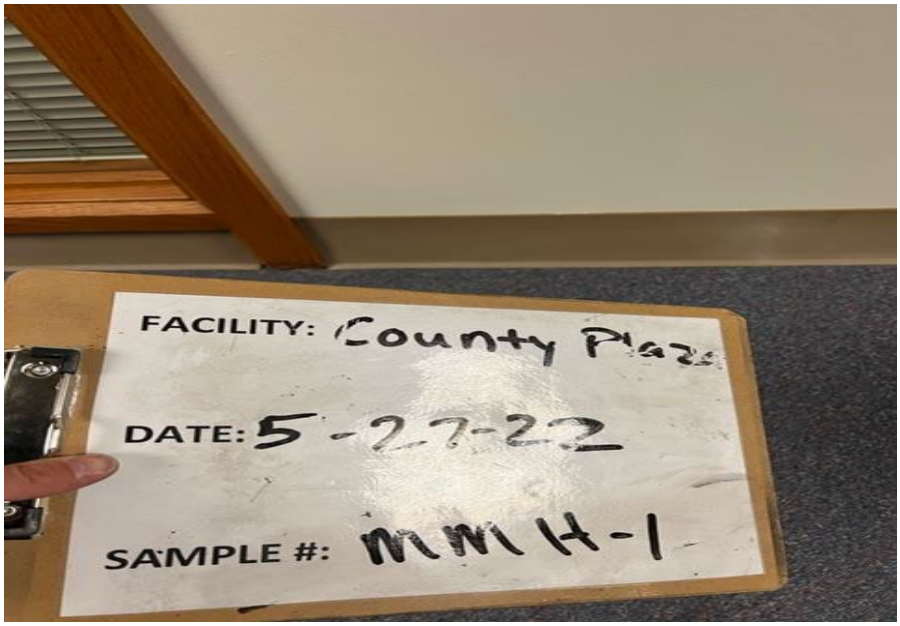
GLAZING

MMG-2

GLAZING

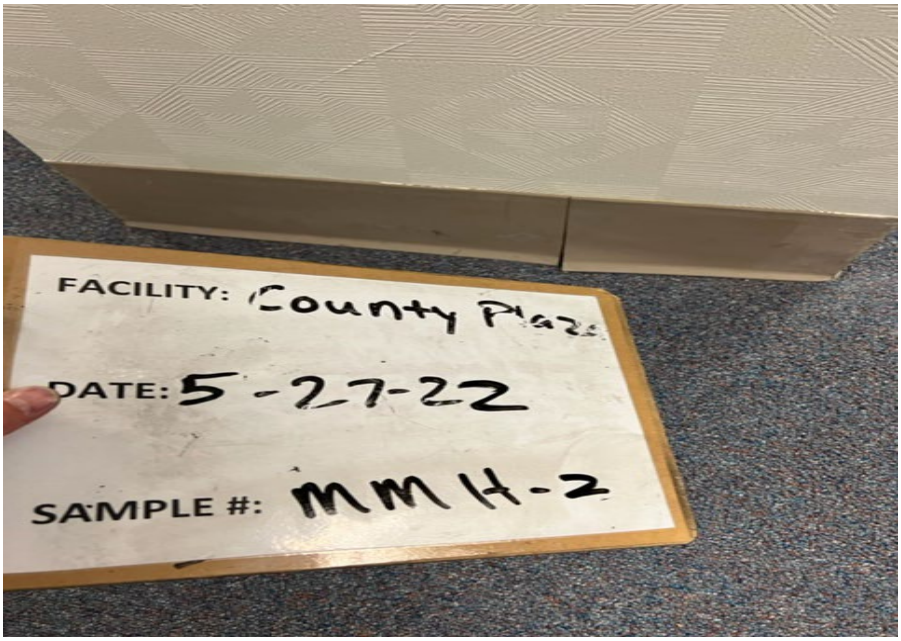
MMG-3

GLAZING



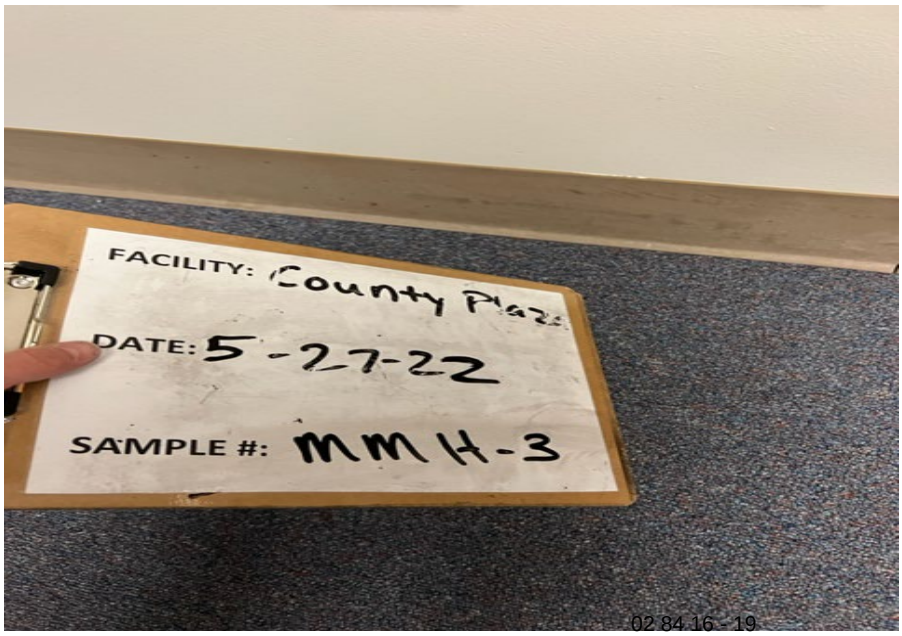
MMH-1

VINYL BASE MASTIC



MMH-2

VINYL BASE MASTIC



MMH-3

VINYL BASE MASTIC

MXA-1

DRYWALL AND COMPOUND

MXA-2

PICTURE NOT AVAILABLE

MXA-3

PICTURE NOT AVAILABLE

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID / Description	Lab ID	Color		Type	Percent	Type	Percent	Filler / Binder	Comments
SPA-1	446319	Brown/White	None Detected	-	-	Cellulose: Glass:	5-7 2-3	90-93	
SPA-2	446320	White	None Detected	-	-	- Glass:	- 2-3	97-98	
SPA-3	446321	Brown/White	None Detected	-	-	Cellulose: Glass:	5-7 2-3	90-93	
MCA-1	446322	White/Gray	None Detected	-	-	Cellulose: Glass:	60-65 15-20	15-25	
MCA-2	446323	White/Gray	None Detected	-	-	Cellulose: Glass:	60-65 15-20	15-25	
MCA-3	446324	White/Gray	None Detected	-	-	Cellulose: Glass:	60-65 15-20	15-25	
MCB-1	446325	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCB-2	446326	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID / Description	Lab ID	Color		Type	Percent	Type	Percent	Filler / Binder	Comments
MCB-3	446327	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCC-1	446328	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCC-2	446329	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCC-3	446330	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCD-1	446331	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCD-2	446332	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MCD-3	446333	White/Gray	None Detected	-	-	Cellulose: Glass:	20-25 50-55	20-30	
MMA-1	446334	Black	None Detected	-	-	Cellulose: Glass:	Trace 3-5	95-97	

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID / Description	Lab ID	Color		Type	Percent	Type	Percent	Filler / Binder	Comments
MMA-2	446335	Black	None Detected	-	-	- Glass:	- 3-5	95-97	
MMA-3	446336	Brown	None Detected	-	-	-	-	90-100	
MMB-1	446337	Yellow/Black	None Detected	-	-	Cellulose: Glass:	40-45 5-10	45-55	
MMB-2	446338	Yellow/Black	None Detected	-	-	Cellulose: Glass:	40-45 5-10	45-55	
MMB-3	446339	Yellow/Black	None Detected	-	-	Cellulose: Glass:	40-45 5-10	45-55	
MMC-1	446340	White	None Detected	-	-	-	-	90-100	
MMC-2	446341	White	None Detected	-	-	-	-	90-100	
MMC-3	446342	White	None Detected	-	-	-	-	90-100	

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID / Description	Lab ID	Color		Type	Percent	Type	Percent	Filler / Binder	Comments
MMD-1	446343	Black	None Detected	-	-	-	-	90-100	
MMD-2	446344	Black	None Detected	-	-	-	-	90-100	
MMD-3	446345	Black	None Detected	-	-	-	-	90-100	
MME-1	446346	Brown/Black	None Detected	-	-	Cellulose: Glass:	20-25 30-35	40-50	
MME-2	446347	Brown/Black	None Detected	-	-	Cellulose: Glass:	20-25 30-35	40-50	
MME-3	446348	Brown/Black	None Detected	-	-	Cellulose: Glass:	20-25 30-35	40-50	
MMF-1	446349	Black	None Detected	-	-	Cellulose:	3-5	95-97	
MMF-2	446350	Black	None Detected	-	-	Cellulose:	3-5	95-97	

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID / Description	Lab ID	Color		Type	Percent	Type	Percent	Filler / Binder	Comments
MMF-3	446351	Black	None Detected	-	-	Cellulose:	3-5	95-97	
MMG-1	446352	Black	None Detected	-	-	Cellulose:	20-30	70-80	
MMG-2	446353	Black	None Detected	-	-	Cellulose:	20-30	70-80	
MMG-3	446354	Black	None Detected	-	-	Cellulose:	20-30	70-80	
MMH-1	446355	Yellow	None Detected	-	-	-	-	90-100	
MMH-2	446356	Yellow	None Detected	-	-	-	-	90-100	
MMH-3	446357	Yellow	None Detected	-	-	Cellulose:	Trace	90-100	
MMI-1	446358	Gray	**Yes**	**Chrysotile:**	**10-15**	-	-	85-90	

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID / Description	Lab ID	Color		Type	Percent	Type	Percent	Filler / Binder	Comments
MMI-2	446359	Gray	**Yes**	**Chrysotile:**	**10-15**	-	-	85-90	
MMI-3	446360	Gray	**Yes**	**Chrysotile:**	**10-15**	-	-	85-90	
MXA-1	446361	Brown/White	None Detected	-	-	Cellulose: Glass:	5-7 2-3	90-93	
MXA-2	446362	Brown/White	None Detected	-	-	Cellulose: Glass:	5-7 2-3	90-93	
MXA-3	446363	White	None Detected	-	-	Cellulose:	1-2	98-99	

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

TEM ENVIRONMENTAL, INC.
ENVIRONMENTAL SCIENTISTS | INDUSTRIAL HYGIENISTS

LABORATORY REPORT
BULK SAMPLE ASBESTOS EVALUATION BY POLARIZED LIGHT MICROSCOPY METHOD

Client:	Reliable Environmental Solutions, Inc.			**Project Location:**	Champaign County Plaza
Contact	Michael Williams			**Project Reference:**	22220
Address:	2760 W. Jefferson			**TEM Project:**	66244
	Springfield	IL	62702-	**Analyzed by:**	Lori Boersma
				Date Analyzed:	6/13/2022

Sample Information			Asbestos Present	Fibrous Materials				Non-Fibrous Materials	
				Asbestos Fibers		Non-Asbestos Fibers			
Client Sample ID	Lab ID	Color						Filler	Comments
Description				Type	Percent	Type	Percent	Binder	

Samples are analyzed following the procedures contained in the USEPA Method 600/R-93/116 July 1993. This report applies only to samples analyzed. This report may not be reproduced except in full and with the approval of TEM Environmental, Inc. This report may not be used by the client to claim product endorsement by NVLAP or any agency of the US government. An estimate of the laboratory uncertainty is available upon request.
SLM: Certain samples may warrant additional analysis beyond the standard USEPA Polarized Light Microscopy method. 1) Further testing using the point count method is recommend for friable samples found to contain less than 10% asbestos by PLM to confirm that the samples are in fact regulated asbestos containing materials (RACM) as defined by the USEPA NESHAP Regulation. 2) The optical resolution of a polarized light microscope limits the size of fibers that are visible. In cases where very small fibers may be present, such as in samples of floor tiles, vermiculite or certain construction adhesives, the result of the PLM analysis is not conclusive when the sample is reported as "None Detected" or "Trace". Further testing using transmission electron microscopy is recommended in those cases where samples may contain very small fibers which may be smaller than the resolution limit of a polarized light microscope. All such services are available for an additional fee.

Analytical services provided are subject to the Terms and Conditions listed on our website.

Report Approved by:

630-790-0880 INFO@TEM-INC.COM 174 N BRANDON DRIVE GLENDALE HEIGHTS, ILLINOIS 60139

CHAIN OF CUSTODY RECORD FOR ASBESTOS BULK SAMPLES

1. Facility Name: Champaign County Plaza
2. Project #: 22220
3. Building Address: Urbana, Illinois
4. Date Collected: 5/27/2022
5. Inspectors Name: Michael Williams
6. License #: 100-18917
7. Sample Numbers: SPA-1,2,3; MCA-1,2,3; MCB-1,2,3; MCC-1,2,3; MCD-1,2,3; MMA-1,2,3; MMB-1,2,3; MMC-1,2,3; MMD-1,2,3; MME-1,2,3; MMF-1,2,3; MMG-1,2,3; MMH-1,2,3; MMI-1,2,3; MXA-1,2,3

8. Total # Samples: 45

COMMENTS: Analysis Type: PLM

TURNAROUND: ☐ RUSH ☐ 24 HOUR ☐ 2-3 DAY ☒ 4-5 DAY ☐ OTHER

9. Sample Numbers Relinquished: See item 7 above
Relinquished by: Michael Williams Representing: Reliable Environmental Solutions, Inc.
Signature: [signature]
Method of Transmission: Fedex
Date and Time: 6/8/2022 @ 5:00PM

Sample Numbers Received: see item 7 above
Received by: Lori Boersma Representing: TEM, Env
Signature: [signature]
Conditions of Samples upon Receipt: OK
Date and Time: 6-9-2022 1:45 pm
Reason for obtaining Samples: for analysis

10. Sample Numbers Relinquished:
Relinquished by: Representing:
Signature:
Method of Transmission:
Date and Time:

Sample Numbers Received:
Received by: Representing:
Signature:
Conditions of Samples upon Receipt:
Date and Time:
Reason for obtaining Samples:

11. Sample Numbers Relinquished:
Relinquished by: Representing:
Signature:
Method of Transmission:
Date and Time:

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101130-0

TEM Environmental, Inc.

Glendale Heights, IL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2021-10-01 through 2022-09-30

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TEM Environmental, Inc.
174 North Brandon Drive
Glendale Heights, IL 60139
Mr. James Tuinenga
Phone: 630-790-0880 Fax: 630-790-0882
Email: jimt@tem-inc.com
http://www.tem-inc.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101130-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Effective 2021-10-01 through 2022-09-30

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH
525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

MICHAEL J WILLIAMS
1215 GRANDVIEW
JACKSONVILLE, IL 62650

4/12/2022

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 18917

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 18917	4/12/2022	05/15/2023

MICHAEL J WILLIAMS
1215 GRANDVIEW
JACKSONVILLE, IL 62650
Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
INSPECTOR	9/1/2022
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	8/31/2022

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

PROTECTING HEALTH, IMPROVING LIVES
Nationally Accredited by PHAB

Reliable Environmental Solutions, Inc. RES

This is to certify that **Michael Williams**

has on 09/01/21, in Springfield, Illinois,
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II

Asbestos Building Inspector Refresher Training

as accredited by the State of Illinois and approved by the U.S.E.P.A. under 40 CFR 763 (AHERA)
and passed the associated examination with a score of 70% or higher.

Course Date: September 1, 2021

COURSE LENGTH: 4 HOURS

Examination Date: September 1, 2021

Expiration Date: September 1, 2022

Certificate Number: BIR/0983

William S. Williams

Training Program Manager, William S. Williams

4211 Westgate Drive, Springfield, Illinois ☐ 217.787.9800 ☐ 217.787.9801 FAX ☐ www.ReliableEnv.com

SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1. WORK INCLUDES

A. Coordinating Contractor shall provide all labor, materials, equipment and supplies for:
   1. Carpentry work shown on the drawings for blocking.

1.2. REFERENCES

A. All references are the current editions unless noted otherwise.

B. ALSC - American Lumber Standards Committee: Softwood Lumber Standards.

C. APA - American Plywood Association: Grades and Standards.

D. AWPA - American Wood Preservers' Association

E. FS TT-W-571 - Wood Preservation: Treating Practices.

F. NFPA - National Forest Products Association.

G. SFPA - Southern Forest Products Association.

H. WCLIB - West Coast Lumber Inspection Bureau: Standard Grading Rules for West Coast Lumber.

I. WWPA - Western Wood Products Association.

1.3. QUALITY ASSURANCE

A. Plywood Standard: Comply with DOC, PS 1.

1.4. PRODUCT HANDLING

A. Delivery and Storage: Keep materials dry during delivery and storage. Protect against exposure to weather and store above ground on framework or blocking. Cover with protective waterproof covering. Stack plywood to provide air circulation within stacks.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Wood sheathing for roofs shall be 5/8" thickness.

B. 2 x blocking will be straight and smooth with no knots or blemishes.

C. Fasteners and Anchorages: Provide size, type, material and finish as recommended by applicable Standards for nails, staples, screws, bolts, nuts, washers and anchoring devices.

D. Treated wood is not permitted.

PART 3 - EXECUTION

3.1 INSPECTION

A. Examine the supporting structure and the conditions under which the carpentry work is to be installed. Notify the Architect in writing of conditions detrimental to the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Basic requirements:
   1. Discard units of material with defects which might impair the quality of the work, and units which are too small to fabricate the work with minimum joints or the optimum joint arrangement.
   2. Set carpentry work accurately to indicated levels and lines, with members plumb and true and accurately cut and fitted.
   3. Securely attach carpentry work by anchoring and fastening as shown or by recognized standards. Countersink nail heads on exposed carpentry work and fill holes. Use common wire nails, except as otherwise indicated. Use finishing nails for finish work. Select fasteners of size that will not penetrate members where opposite side will be exposed to view or will receive finish materials.
   4. Make tight connections between members: Install fasteners without splitting of wood; predrill as required.
   5. Select fasteners of a size that will make tight all connections between members. Install fasteners without the splitting of wood; pre-drill as required.

B. Wood blocking :
   1. Provide wherever shown and where required for screeding or attachment of other work or equipment / items requiring blocking. Form to shapes as shown and cut for true line and level of work to be attached. Coordinate location with other work involved.
   2. Attachment shall support applied loading. Countersink bolts and nuts flush with surfaces, unless otherwise shown.

C. Installation of plywood:
   1. Comply with recommendations of the American Plywood Association (APA) for the installation of plywood.

END OF SECTION 06 10 00

SECTION 07 84 00 - FIRESTOPPING

PART 1 GENERAL

1.01 WORK INCLUDES

A General Contractor to provide all labor and materials for Firestopping systems as shown on the Drawings

B Firestopping of joints and penetrations in fire-resistance-rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated.

1.02 REFERENCE STANDARDS

A ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials 2020.

B ASTM E814 - Standard Test Method for Fire Tests of Penetration Firestop Systems 2013a (Reapproved 2017).

C ASTM E1966 - Standard Test Method for Fire-Resistive Joint Systems 2015 (Reapproved 2019).

D ASTM E2837 - Standard Test Method for Determining the Fire Resistance of Continuity Head-of-Wall Joint Systems Installed Between Rated Wall Assemblies and Nonrated Horizontal Assemblies 2013 (Reapproved 2017).

E ITS (DIR) - Directory of Listed Products Current Edition.

F FM (AG) - FM Approval Guide current edition.

G UL 1479 - Standard for Fire Tests of Penetration Firestops Current Edition, Including All Revisions.

H UL 2079 - Standard for Tests for Fire Resistance of Building Joint Systems Current Edition, Including All Revisions.

I UL (DIR) - Online Certifications Directory Current Edition.

J UL (FRD) - Fire Resistance Directory Current Edition.

1.03 SUBMITTALS

A See Section 01 33 23 – Shop Drawings, Product Data, and Samples for submittal procedures.

B Product Data: Provide data on product characteristics, performance ratings, and limitations.

1.04 FIELD CONDITIONS

A Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation; maintain minimum temperature before, during, and for three days after installation of materials.

B Provide ventilation in areas where solvent-cured materials are being installed.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A Firestopping Manufacturers:

1. 3M Fire Protection Products; www.3m.com/firestop/#sle.
2. A/D Fire Protection Systems Inc; www.adfire.com/#sle.
3. Hilti, Inc; www.hilti.com/#sle.
4. Substitutions: See Section 01 62 04 – Substitution Procedures

2.02 MATERIALS

A Firestopping Materials: Any materials meeting requirements.

B Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Provide type of materials as required for tested firestopping assembly.

C Fire Ratings: Refer to drawings for required systems and ratings.

2.03 FIRESTOPPING ASSEMBLY REQUIREMENTS

A Head-of-Wall (HW) Joint System Firestopping at Joints Between Fire-Rated Wall Assemblies and Non-Rated Horizontal Assemblies: Use system that has been tested according to ASTM E2837 to have fire resistance F Rating equal to required fire rating of wall assembly.
1. Movement: Provide systems that have been tested to show movement capability as indicated.

B Floor-to-Floor (FF), Floor-to-Wall (FW), Head-of-Wall (HW), and Wall-to-Wall (WW) Joints, Except Perimeter, Where Both Are Fire-Rated: Use system that has been tested according to ASTM E1966 or UL 2079 to have fire resistance F Rating equal to required fire rating of the assembly in which the joint occurs.
1. Movement: Provide systems that have been tested to show movement capability as indicated.
2. Listing by UL (DIR), or UL (FRD) in their certification directories will be considered evidence of successful testing.

C Through Penetration Firestopping: Use system that has been tested according to ASTM E814 to have fire resistance F Rating equal to required fire rating of penetrated assembly.
1. Listing by UL (DIR), or UL (FRD) in their certification directories will be considered evidence of successful testing.

2.04 FIRESTOPPING FOR PERIMETER CONTAINMENT

A Perimeter Joint Systems That Have Movement Capabilities (Dynamic-D):

1. 2 Hour Construction: UL System CW-D-1004; Specified Technologies Inc. AS200 Elastomeric Spray.

2.05 FIRESTOPPING FOR FLOOR-TO-FLOOR, FLOOR-TO-WALL, HEAD-OF-WALL, AND WALL-TO-WALL JOINTS

A Concrete and Concrete Masonry Walls and Floors:

1. Floor-to-Floor Joints:
2. Head-of-Wall Joints at Concrete/Concrete Masonry Wall to Concrete Over Metal Deck Floor:

B Gypsum Board Walls:

1. Wall-to-Wall Joints That Have Not Been Tested For Movement Capabilities (Static-S):
   a. 2 Hour Construction: UL System WW-S-0063; Specified Technologies Inc. SpeedFlex TTG Track Top Gasket.
   b. 1 Hour Construction: UL System WW-S-0063; Specified Technologies Inc. SpeedFlex TTG Track Top Gasket.
2. Head-of-Wall Joints at Concrete Over Metal Deck:
   a. 2 Hour Construction: UL System HW-D-0034; Specified Technologies Inc. ES Elastomeric Firestop Sealant.
   b. 1 Hour Construction: UL System HW-D-0034; Specified Technologies Inc. ES Elastomeric Firestop Sealant.
3. Head-of-Wall Joints at Concrete Over Metal Deck, Wall Parallel to Ribs:
   a. 2 Hour Construction: UL System HW-D-0184; Hilti CP 606 Flexible Firestop Sealant.
4. Head-of-Wall Joints at Concrete Over Metal Deck, Wall Perpendicular to Ribs, Cut to Fit Ribs:
   a. 2 Hour Construction: UL System HW-D-0045; Hilti CP 606 Flexible Firestop Sealant.
   b. 1 Hour Construction: UL System HW-D-0045; Hilti CP 606 Flexible Firestop Sealant.

2.06 FIRESTOPPING PENETRATIONS THROUGH CONCRETE AND CONCRETE MASONRY CONSTRUCTION

A Penetrations Through Floors or Walls By:

1. Multiple Penetrations in Large Openings:
2. Uninsulated Metallic Pipe, Conduit, and Tubing:
3. Uninsulated Non-Metallic Pipe, Conduit, and Tubing:
4. Insulated Pipes:

B Penetrations Through Floors By:

1. Multiple Penetrations in Large Openings:
2. Uninsulated Metallic Pipe, Conduit, and Tubing:
3. Uninsulated Non-Metallic Pipe, Conduit, and Tubing:

C Penetrations Through Walls By:

1. Uninsulated Metallic Pipe, Conduit, and Tubing:
   a. 2 Hour Construction: UL System W-J-1067; Hilti FS-ONE MAX Intumescent Firestop Sealant.
   b. 1 Hour Construction: UL System W-J-1067; Hilti FS-ONE MAX Intumescent Firestop Sealant.

2.07 FIRESTOPPING PENETRATIONS THROUGH GYPSUM BOARD WALLS

A Blank Openings:

1. 2 Hour Construction: UL System W-L-3334; Hilti CP 653 Speed Sleeve.
2. 1 Hour Construction: UL System W-L-3334; Hilti CP 653 Speed Sleeve.

2.08 FIRESTOPPING SYSTEMS

A Firestopping: Any material meeting requirements.

1. Fire Ratings: See drawings for required systems and ratings.

B Firestopping at Uninsulated Metallic Pipe and Conduit Penetrations, of diameter 4 inches or less: Any material meeting requirements.

1. Stairway Walls: UL Design No. U419, F Rating 2 hour
2. Other Interior Partitions: UL Design No. WL 5001, F Rating 1 & 2 hour.

C Firestopping at Control Joints (without Penetrations): Any material meeting requirements.

1. Between Top of Fire-Rated Walls and Bottom of Slab Above: UL Design No. CAJ 1044, F Rating 1-1/2 hour.
2. Stairway Walls: UL Design No. U419, F Rating 2 hour.
3. Other Interior Partitions: UL Design No. WL 5001, F Rating 1 & 2 hour.

PART 3 EXECUTION

3.01 EXAMINATION

A Verify openings are ready to receive the work of this section.

3.02 PREPARATION

A Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.
B Remove incompatible materials that could adversely affect bond.

3.03 INSTALLATION

A Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.

B Install labeling required by code.

3.04 CLEANING

A Clean adjacent surfaces of firestopping materials.

END OF SECTION 07 84 00

SECTION 07 92 00 – JOINT SEALANTS

PART 1 – GENERAL

1.1 WORK INCLUDES

A. Contractor shall provide all labor, material, equipment, and services necessary or incidental to the completion of all work to install joint sealants as specified herein or noted in documents.

1.2 SUBMITTALS

A. Product Data: For each joint-sealant product.

B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

C. Joint-Sealant Schedule: Include the following information:
   1. Joint-sealant application, joint location, and designation.
   2. Joint-sealant manufacturer and product name.
   3. Joint-sealant formulation.
   4. Joint-sealant color.

D. Qualification Data: For qualified testing agency.

E. Preconstruction Laboratory Test Schedule: Include the following information for each joint sealant and substrate material to be tested:
   1. Joint-sealant location and designation.
   2. Manufacturer and product name.
   3. Type of substrate material.
   4. Proposed test.
   5. Number of samples required.

F. Preconstruction Laboratory Test Reports: From sealant manufacturer, indicating the following:
   1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
   2. Interpretation of test results and written recommendations for primers and substrate preparation are needed for adhesion.

G. Preconstruction Field-Adhesion-Test Reports: Indicate which sealants and joint preparation methods resulted in optimum adhesion to joint substrates based on testing specified in "Preconstruction Testing" Article.

H. Sample Warranties: For special warranties.

1.3 PRECONSTRUCTION TESTING

A. Preconstruction Field-Adhesion Testing: Before installing sealants, field test their adhesion to Project joint substrates as follows:

1. Locate test joints representative of typical conditions.
2. Conduct field tests for each kind of sealant and joint substrate.
3. Notify Architect seven days in advance of dates and times when test joints will be erected.
4. Arrange for tests to take place with joint-sealant manufacturer's technical representative present.
    a. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1.1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
        1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
5. Report whether sealant failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.
6. Evaluation of Preconstruction Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing.

1.4 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:
    1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 DEG F.
    2. When joint substrates are wet.
    3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
    4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.5 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
    1. Warranty Period: Two years from date of Substantial Completion.

B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
    1. Warranty Period: Five years from date of Substantial Completion.

C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:
    1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
    2. Disintegration of joint substrates from causes exceeding design specifications.
    3. Mechanical damage caused by individuals, tools, or other outside agents.
    4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.2 URETHANE JOINT SEALANTS

A. Urethane, S, NS, 25, NT: Single-component, nonsag, nontraffic-use, plus 25 percent and minus 25 percent movement capability, urethane joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Use NT.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. BASF CORP. - CONSTRUCTION CHEMICALS; MasterSeal NP 1
      b. BOSTIK, INC; Chem-Calk 2000
      c. PECORA CORPORATION; Dynatrol I-XL.
      d. SIKA CORPORATION; 15LM
      e. TREMCO INCORPORATED; Dymonic 100

2.3 BUTYL-RUBBER-BASE JOINT SEALANT

A. One-part butyl rubber sealant for use between all types of masonry, steel aluminum, glass, and wood; ASTM C-1311.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Bostik, Inc. - Chem-Calk 300
      b. Pecora Corporation – BC-158
      c. Tremco – Butyl
      d. Sonneborn - Butakauk

2.4 MILDEW-RESISTANT JOINT SEALANTS

A. Silicone, Mildew Resistant, Acid Curing, S, NS, 25, NT: Mildew-resistant, single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, acid-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 25, Use NT.

   1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

      a. Adfast.
      b. GE Construction Sealants; Momentive Performance Materials Inc.
      c. May National Associates, Inc.; a subsidiary of Sika Corporation.
      d. Pecora Corporation.
      e. Soudal USA.
      f. The Dow Chemical Company.
      g. Tremco Incorporated.

2.5 Acrylic Latex: Acrylic latex or siliconized acrylic latex, ASTM C834, Type OP, Grade NF.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

    a. Everkem Diversified Products, Inc.
    b. Franklin International.
    c. May National Associates, Inc.; a subsidiary of Sika Corporation.
    d. Pecora Corporation.
    e. Sherwin-Williams Company (The).
    f. Tremco Incorporated.

2.6 SILICONE JOINT SEALANTS

A. Silicone, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

    a. May National Associates, Inc.; a subsidiary of Sika Corporation.
    b. Pecora Corporation.
    c. Sika Corporation; Joint Sealants.
    d. The Dow Chemical Company.

2.7 NONSTAINING SILICONE JOINT SEALANTS

A. Nonstaining Joint Sealants: No staining of substrates when tested according to ASTM C1248.

B. Silicone, Nonstaining, S, NS, 100/50, NT: Nonstaining, single-component, nonsag, plus 100 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Use NT.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

    a. May National Associates, Inc.; a subsidiary of Sika Corporation.
    b. Pecora Corporation.
    c. Sika Corporation; Joint Sealants.
    d. Tremco Incorporated.

2.8 JOINT-SEALANT BACKING

A. Sealant Backing Material, General: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
1. Products: Subject to compliance with requirements, provide one of the following:
    a. ALCOT PLASTICS LTD.; ALCOT Standard Backer Rod.
    b. BASF CORP. - CONSTRUCTION CHEMICALS; MasterSeal 920 & 921(Pre-2014: Sonolastic Backer Rod).
    c. CONSTRUCTION FOAM PRODUCTS; A DIVISION OF NOMACO, INC.

B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), Type O (open-cell material), Type B (bicellular material with a surface skin) or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.9 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way and formulated to promote optimum adhesion of sealants to joint substrates.

C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
   1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
   2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
      a. Concrete.
      b. Masonry.
      c. Exterior insulation and finish systems.
   3. Remove laitance and form-release agents from concrete.

4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
   a. Metal.
   b. Glass.

B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
   1. Do not leave gaps between ends of sealant backings.
   2. Do not stretch, twist, puncture, or tear sealant backings.
   3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.

D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
   1. Place sealants so they directly contact and fully wet joint substrates.
   2. Completely fill recesses in each joint configuration.
   3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
   1. Remove excess sealant from surfaces adjacent to joints.
   2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
   3. Provide concave joint profile per Figure 8A in ASTM C 1193 unless otherwise indicated.

3.4 FIELD QUALITY CONTROL

A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:
   1. Extent of Testing: Test completed and cured sealant joints as follows:
      a. Perform 10 tests for the first 1000 FEET of joint length for each kind of sealant and joint substrate.
      b. Perform one test for each 1000 FEET of joint length thereafter or one test per each floor per elevation.
   2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
      a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
   3. Inspect tested joints and report on the following:
      a. Whether sealants filled joint cavities and are free of voids.
      b. Whether sealant dimensions and configurations comply with specified requirements.
      c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.
   4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.
   5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

B. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.5 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION 07 92 00

1. GENERAL SCOPE

1.1 OF WORK

A. Base Bid:

1. Elevator Contractor:
   a. A Illinois licensed, qualified Elevator Company shall furnish all elevator engineering, materials, labor, tools, equipment, transportation, shipping, supervision, permits and testing for the complete modernization of three (3) overhead, geared traction elevators to include, but is not limited to, the driving machine, car, hoistway entrances, car doors and operator, car interior, signals, controls, electric wiring, roping, buffers and counterweights; and devices for operating, dispatching, safety, security, leveling and alarm. All necessary related work by other trades will be handled by General Contractor. Awarded Elevator Contractor to work with other trades and provide hoistway, pit, and machine room access as necessary. This includes, but is not limited to, working with electrical, mechanical, fire alarm, structural, HVAC, engineering services, cutting, patching, and painting.

   b. Provide the following new, code-compliant components: Base bid includes Passenger Elevators No. 1, 2, and 3.

      1) Programmable non-proprietary microprocessor controllers.
      2) New Geared traction hoist machines with new AC motors. (Alternate No. 1 for AC Gearless machines)
      3) Suspension ropes and wedge shackles.
      4) Rope gripper or emergency brake.
      5) New floor selector system.
      6) New Governor, governor rope and tail sheave.
      7) New door operators.
      8) New cab interiors.
      9) New Stainless-Steel cab door panels, tracks, hangers, hardware, rollers, gibs and clutch.
      10) New code compliant full height door reopening devices.
      11) Cab platform guards (toe guards).
      12) New hoistway and machine room wiring and switches.
      13) New traveling cable.
      14) Upper and lower spring-loaded car roller guide assemblies.
      15) Upper and lower counterweight spring loaded roller guide assemblies.
      16) Car top operating stations with light and GFCI receptacle.
      17) Paint hall entrance frames and hall doors. (Alternate No. 2 re-clad door frames and new hall doors with SS#4)
      18) New hoistway door struts, headers, tracks, and all necessary hardware.
      19) New hoistway entrance door hardware – Door tracks, hangers, rollers, gibs, interlocks, closers, pick-up mechanisms, and all necessary hardware.
      20) Cab Fixtures-All.
      21) Hall Fixtures-All-Surface Mount.
      22) New hall door jamb Braille
      23) All code required signage.

   c. In all cases where a device or part of the equipment is herein referred to in the singular number, it is intended that such reference shall apply to as many such devices as are required to complete the installation.

   d. Any items not specified in detail by the Specifications, but which are incidental to or necessary for the complete installation and proper operation of the work described herein or

reasonably implied, shall be furnished as if called for in detail by the Specifications.

e. All work shall be included, unless specifically noted otherwise.

f. All equipment, labor and permits required to satisfactorily remove and dispose of existing equipment and materials not specified for re-use, and completely new elevator installation as required by the contract documents.

g. Delivery, staging and hoisting of new equipment; hoisting, dismantling, removal and disposal of existing equipment; and repair, cleaning and painting of reusable equipment.

h. Materials and accessories as required for completing the elevator modernization.

i. Hoistway, pit and machine room barricades for safety, as required.

j. Required hoisting, hoisting permits and traffic coordination and/or permits with local jurisdictions, the State of Illinois, City of Urbana and Champaign County , as required.

k. Required coordination and/or permits with local jurisdictions, City of Urbana, Illinois Division of Elevator Safety and Champaign County Public Works, Mechanical and Electrical Sections.

l. Elevator Contractor shall be required to provide access to the top of the car, hoistway and pit to other trades to facilitate the completion of any related work. This may be required at any time prior to, during or after the elevator work is being performed.

m. Any welding, work creating loud noise, smoke or gases, or offensive fumes. Please provide a two-day notice to the County so that they may notify tenants.

n. Elevator Contractor providing the modernization will be responsible for maintaining the continuous elevator operation of all of the elevators included in this project, once the on-site work begins and through completion.

o. In submitting a bid and accepting a Contract award, the Elevator Contractor represents they have examined the site, existing conditions as well as the entire set of documents, in accordance with the General conditions and agrees to be bound by all conditions of the site, existing conditions and all documents, without additional cost.

p. The existing hoistway and/or cab doors could potentially contain asbestos and the removal and disposal of such shall be handled according to accepted abatement procedures.

q. See Appendix A for the details of the related work.

1.2 RELATED WORK

A. Related work to be provided by general contractor. Elevator contractor to work with other trades and provide access as necessary. Work may include, but is not limited to:

1. Electrical circuits, disconnects, lighting and receptacles.
2. Machine room and pit electrical and lighting.
3. A/C system for machine room.
4. Electrical circuit and disconnect for A/C system.
5. Fire and Smoke Detection System components required to provide code compliant Firefighters' Emergency Operation.
6. Elevator Security camaras. Cameras supplied by County Security Company.
7. Cutting, patching, sealing, and painting.
8. Structural.
9. Engineering services.

1.3 QUALITY ASSURANCE

A. Contractor Requirements: The Contractor for all work covered under this Section shall have proven experience regularly engaged in the business of installing and servicing elevator related equipment of the

type and character required by the specifications. The Contractor shall install the equipment with competent, experienced, and licensed workmen in compliance with all governing laws.

B. Branch Office: In order to ensure proper and qualified maintenance service and ability for the bidding contractor to respond within a maximum of 2 hours' time from being notified of an elevator shut-down, all bidders must operate a branch office within a 25-mile radius of the project site under the name of the bidder.

C. Previous Installations: Vendors must be able to show five (5) satisfactory installations that have been in operation for a period of at least one year. This equipment must be of the same control and operation as outlined in the bid specification.

1.4 REGULATORY REQUIREMENTS

A. Code Compliance: All material, design, clearances, construction, workmanship, operation, and tests shall be in accordance with the requirements of the regulations listed below. In the event of any potential conflict between the code standards, the most stringent requirements shall apply.

B. Current Codes: All codes in effect under the requirements of Champaign County, Mechanical Division, and City of Urbana and the Illinois OSFM, shall be used.

1. ASME A17.1-2019 "Safety Code for Elevators and Escalators"
2. ASME A17.3-2005 "Safety Code for Existing Elevators and Escalators"
3. A117.1-2017 "Accessible and Usable Building and Facilities"
4. International Building Code
5. NFPA 70 National Electrical Code
6. NFPA 72 National Fire Alarm Code
7. NFPA 101 Life Safety Code
8. International Mechanical Code
9. All parts and components shall be U. L. Listed as applicable with ASME A17.1 - 2016
10. 2010 ADA Standards for Accessible Design

1.5 PERMITS

A. The Elevator Contractor must obtain a permit for installation from the Illinois OSFM Electrical Divisions and the City of Urbana. The contractor shall be responsible for the permit application fee and the preparation and submission of all required plans, specifications and application forms related to the elevator installation permit. These requirements will also apply to all subcontractors of the Elevator Contractor.

1.6 SUBMITTALS

A. Shop Drawings, Product Data, and Samples.

1. Product Data: Submit Shop drawing(s) and catalog cut submission for each system proposed foruse. Shop drawing(s) and catalog cut submission shall include, but not be limited to, the following:

   a. Controller: Manufacturer, Type, and Model

   b. Controller Drive Unit: Manufacturer, Type, and Model

   c. Rope Gripper: Manufacturer, Type, and Model

   d. Governor: Manufacturer, Type, and Model

   e. Hoist Cable & Shackle: Manufacturer, Type, and Model

   f. Roller Guides: Manufacturer, Type, and Model

   g. Door frame & door panels: Manufacturer, type, and label.

   h. Car Door Operator: Manufacturer, Type, and Model

   i. Door Detector: Manufacturer, Type, and Model

   j. Signal, Operating Fixtures, Operating Panels, and Indicators: Manufacturer, Type, and Model

B. Shop Drawings: Submit approval layout drawings. Include the following:

1. Job specific shop drawings and technical coordination information shall be submitted for review prior to commencing with fabrication of the equipment. The first shop drawing submittal shall be complete. Partial shop drawings will not be reviewed until they have been completed. Delay in the project as a result of partial submittals shall be the responsibility of the Elevator Contractor. Show arrangement of equipment in machine room so machines, motors, rotating elements, sheaves, and other equipment can be disassembled and removed for repairs or replaced without disturbing other components. Arrange equipment for clear passage through access door.
2. Show floors served, travel distances, maximum dynamic and static loads imposed on the building structure at points of support and all similar considerations of the elevator work.
3. Indicate elevator system capacities, sizes, performances, safety features, finishes and other pertinent information as it applies to this elevator.
    a. Signal Operating Fixtures.
    b. Car and Hoistway Doors.
    c. Cab design, dimensions, and layout.
    d. Geared or Gearless traction machine, machine beams, and AC motor details.
    e. Hoistway - door details.
    f. Electrical characteristics and connection requirements.
    g. Expected heat dissipation of elevator equipment in machine room (BTU).
    h. Maximum rail bracket spacing: Confirm existing conditions meet applicable codes and requirements.
    i. Maximum loads imposed on guide rails requiring load transfer to building structure.
    j. Loads on hoisting beams.
    k. Clearances and travel of car.
    l. Clear inside hoistway and pit dimensions.
    m. Location, materials, and sizes of access doors, hoistway entrances and frames.
    n. Provide hall sill installation and loading design requirements including sill mounting angle, sill support brackets, attachments, sill grouting details, and the loads and use for which the hoistway sills are designed.
    o. Provide wiring diagrams for the entire system of power distribution, lighting, control, signals, communication, etc. Indicate electrical power requirements and branch circuit protection device recommendations.
    p. Samples: Submit samples of each required finish, not including those intended for painting after installation.
    q. Certificates and Test Reports: As required by Code, submit written, certified reports for required tests, recording the dates performed, test method (description), test results, interpretation of the results, and recommended action. Where required, submit additional copies directly to governing authorities.
    r. The Elevator Contractor shall be required to submit all hoistway and machine room plan and section drawings, as well as all permit application forms, to the Using Agency and the Elevator Consultant within four (4) weeks from the receipt of a “Notice to Proceed”.
    s. The Elevator Contractor shall be required to provide copies of all correspondence to/from the Authority Having Jurisdiction (AHJ) regarding the permit application request for the project to the Using Agency and the Elevator Consultant. Permit drawings will need to be properly sealed by a Professional Engineer (P.E.)

C. Job End Close-Out Submittals

1. "Job End Submittals" shall be provided at the time the Elevator Contractor's "Final Acceptance Document" is signed and shall be provided to the Using Agency and include the following items:

    a. Signature Document: A document with all job end submittal items listed shall be provided by the Using Agency and shall be signed for, as complete and provided within the submittal packages by the Elevator Contractor and shall be signed by the Using Agency as received in full.

    b. Clearly Legible: All copies and sheets within the submittal sets shall be legible and poor-quality copies will not be accepted.

    c. As Built: All submittals shall be "as built" and shall represent the finished product and equipment of the actual equipment and wiring installed.

2. Number / Sets of Project Manuals to be provided:

    a. Multiple identical elevators located in the same machine room: 3 sets total.

3. Project Manual - One "set" of submittal items equals one project manual: Upon completion, the Contractor shall prepare and submit for the Using Agency's use, three copies / "sets" Project Manuals. Each manual / set shall contain:

    a. A thumb-drive containing all OEM information as well as the below items:

    b. Adjuster's Test Report: An adjuster's test report shall contain all variable controller settings, adjustable parameter settings and adjustments, and all data from safety tests performed. Settings, loads, forces, speeds, and adjustments shall be noted. Adjuster's test reports are required for each elevator and shall be clearly marked as to the applicable elevator the reports represent.

    c. Parts Catalog: A comprehensive parts catalog / cut sheets containing all components including mechanical / electrical systems of the complete elevator system with corresponding part numbers to the pictured / listed parts. A current list of available vendors shall be provided for all the parts. This shall include but is not limited to all mechanical, control, and fixture parts.

    d. Three (3) sets of Using Agency's Manual consisting of the installation instructions, all diagnostic information and descriptions, all pertinent codes, and any special kind of tools (Most fully functional version) necessary for the proper maintenance and adjusting of the units. If any adjusting tool(s) is to be provided, then the unit shall be considered the Property of the Using Agency and shall be provided at no additional cost to the Using Agency. The unit provided shall not be of the self-destructing, self-resetting type.

        1) Required Periodic Test Procedures: A clear description and defined process for performing all code required periodic tests, shall be provided with submittals.

        2) Noted on Signature Document: Any special tools shall be noted as required and accounted for on the signature sheet or stated as "none required" on the Signature Document.

    e. Three (3) sets of instructions that explain the operating features of the control equipment, including adjusting and troubleshooting procedure.

4. Electrical Schematics: Three (3) complete sets of "as built", current and actual finished representation of the complete elevator control and electrical systems, including but not limited to all controller(s), motor(s), signal operating fixture(s), and door operator(s) shall be provided. Provide the interconnecting wiring list to the processor interface boards. Ensure and maintain that any circuit changes made during the course of installation are represented on each set of the wiring diagrams. These diagrams will be the property of the Using Agency.

    a. One (1) of the three (3) shall be factory-laminated with a metal grommet hole at the upper-left portion of each laminate section; include a metal chain through the grommet hole that shall attach all of the diagrams/schematics and shall be mounted in the machine room.

    b. Two (2) of the three (3) sets shall be identical sets non-laminated paper copies, minimum 11" x 17", standard font sizing.

5. Operation and Maintenance Manuals: Manuals describing recommended service requirements and procedures for optimal life and operation of equipment, shall be provided.

6. Maintenance Control Program (MCP): An MCP shall be provided to satisfy the requirements of and document compliance with the Elevator Code. The MCP shall include instructions for cleaning, lubricating, and adjusting applicable components at regular intervals and repairing or replacing all worn or defective components, when necessary. This program shall also include instructions and description of Code required and other required tests of equipment at scheduled intervals.

7. Keys: Contractor shall provide three (3) sets of keys (for each elevator) to operate all key-operated functions. All shall be properly marked and identified.

8. Diagnostic and Special Test Equipment: Special equipment or tools necessary for the repair, adjusting, or troubleshooting of the operation of the elevator and any component such as a door operator, selector, or controller of the elevator, shall be included in the project and furnished at no additional cost. If any adjusting tool(s) is to be provided, then the unit shall be considered the Property of the Using Agency and shall be provided at no additional cost to the Using Agency. The unit provided shall not be of the self-destructing, self-resetting type.

    a. Items Shall Include: All required hardware, firmware, software, cables and associated apparatus for complete function, and training manuals, specific to the equipment installed which are available to the vendor, shall be included.

9. Updates or Future Publications: Access to all manufacturer's websites and technical support for the life of the equipment as well as any and all information, printed material, and or publications pertaining to the provided elevator equipment that updates or recommends any changes to, or operational problems of the equipment shall be provided to the Using Agency for the life of the equipment. This shall include any and all information that is provided to the vendor's branch offices, service representatives and mechanics, or factories.

10. Re-Programming: There shall be no cost to Using Agency for re-programming or re-charging of the service tool at any time.

11. All of the items indicated above will become the property of the Using Agency and shall not be removed from the property for any reason.

1.7 INSTALLATION SEQUENCE

A. North Car #3 Modernization to be performed first. Cab interior (Walls, ceiling and floor) for North Car #3 to be installed after South Car #1 and South Car # 2 is fully installed.

***NOTE: If awarded elevator contractor is able to get North Car # 3 operational contractor will be approved to modernize South Car# 1 or South Car #2 first.

1.8 WARRANTY

A. Submit copies of written warranty, signed by the Contractor, agreeing to repair or replace defective materials and workmanship of the elevator work during a one (1) year guarantee period, which starts on the date of substantial completion for the Project. Defective materials and workmanship are hereby defined to include operational failures, performance below required minimums, excessive deterioration or aging, evidence that the system will not be reasonably maintainable for the life of the building, abnormal wear considering intensity of use, unsafe conditions, excessive noise or vibration, and similar unusual, unexpected and unsatisfactory conditions; but does not include defects caused by alterations, abusive use, vandalism, failure of the supporting structure or power supply, improper maintenance and similar causes beyond the control of the Contractor.

1.9 POST-INSTALLATION SERVICE

A. Service Time and Frequency: The Contractor shall provide maintenance service for altered installations for a period of twelve (12) months from the date of Substantial Completion. Service shall occur once a month and shall include a minimum of one (1) hour of onsite elevator service, per elevator, per month or three (3) hours total of onsite hours per month. Travel time, callback service, repair service and testing will not be included in this time allotment.

B. Service Examinations: Service examinations shall consist of the inspection of all mechanical and

operational aspects of the elevator equipment. Work shall include the repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper elevator operation at rated speed and capacity. Use parts and supplies as used in the manufacture and installation of original equipment.

C. Missed Service Visits: If a monthly service visit is missed or a period in excess of 30 days passes without the elevator being serviced as per this document, the elevator service time and warranty shall be extended for an additional 30 days. This extended service and warranty period shall be subject to the same requirements as this section, including service visits and warranty and service extension for missed visits.

D. Elevator Mechanic: A qualified, licensed elevator mechanic, directly in the employ of the Illinois State Licensed Elevator Contractor, shall perform Service. Mechanic shall also be licensed by the State of Illinois as an elevator mechanic.

E. Cleaning and Service: Elevator shall be left in a clean condition after each examination. Cleaning shall include car top, pit area, hoistway, and machine room area. Any oil or lubrication leaks shall be wiped clean and the cause of the leak shall be corrected.

F. Written Reports: Signed, dated, written reports of the service work performed shall be provided to the Facilities Director immediately or within a reasonable time after the service work is performed. These reports shall be legible. Poor quality carbon copies will not be acceptable. The mechanic who performed the work shall sign the reports.

G. Repairs and Notification: If it becomes necessary to remove the elevator from service for an extended period of time beyond normal industry standard service requirements, arrangements shall be made to coordinate this work with the Using Agency's Facilities Director.

H. Call Backs: Contractor is responsible for providing labor and shall respond to all call backs for warranted items 24 hours per day, 7 days a week, including all holidays, within two (2) hour time of being notified of the call, at no additional cost to the Using Agency during the twelve (12) month warranty period.

I. Written Report: A written report, stating the nature of the call back, any parts that were used, and the action taken to correct the problem which resulted in the call will be provided to the Using Agency's Facilities Department. This report shall be clear, legible, signed and dated by the mechanic that performed the work.

J. Wire Rope Maintenance and Adjustment: At the end of the maintenance period as per this section all hoist ropes shall be checked for proper tensioning and at no time will tensioning of the hoist cables be greater than 10% for each set of hoist ropes. Hoist ropes shall be checked for equal and/or proper length and elevator system shall be checked and provided with proper run-by as per code. Shackles shall be provided with equal, adequate remaining adjustment, minimum of 50% of threaded rod, still available and shall be reasonably equal in remaining adjustment threads.

2. PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS AND EQUIPMENT

A. Only products and components produced or provided by manufacturer(s) regularly engaged in the manufacture of elevator products, and that complies with ASME A17.1 in its entirety, shall be used. No proprietary software/hardware shall be installed.

2.2 SYSTEM DESCRIPTION

A. Elevator Designation: To be provided by Using Agency. Designation to be engraved on a removable plate on the Car Operating Panel.

1. Elevator Characteristics: Passenger Elevators Number: 1, 2, and 3 Capacity: Retain existing.
2. Type: Overhead geared traction hoist machine.
3. Type of loading elevator to be designed for:
    a. Existing: Passenger Loading
4. Speed: Retain existing field verify

5. Primary Machine Room Location: Overhead
6. Door Openings: Six (6) Front inline
7. Number of Stops: Six (6)
8. Floor Number Designation: Cars 1 and 2 (LL, *1, 2-5) Car # 3 (*LL, 1-5)
9. Rise / Travel: Field verify.
10. Roping: 1:1
11. Inside Cab Dimensions from Surface of Wall to Wall: Existing
12. Inside Cab Height from Finished Floor to Ceiling: Existing
13. Entrance Width: Retain Existing
14. Door Type: Retain Existing

2.3 CAR OPERATING FEATURES

A. Car shall have listed features unless noted otherwise.

B. Stopping Accuracy: + or -1/4" (6.4 mm) under any loading condition or direction of travel.

C. Main Power Supply: 240 Volts, 3 Phase, 200 Amp (Existing, field verify)

D. Lighting Power Supply: 120 Volts, 1 Phase, 20 Amp, 60 Hz. (Existing, field verify.)

E. Duplex (2) Car Group Operation (Passenger Elevators 1, and 2) Simplex (Passenger Elevator 3)

F. A programmable homeland feature will be provided so each elevator can be programmed to homeland on any level as selected by the owner.

G. Anti-nuisance car button cancellation function that can be programmed on or off.

H. Independent Service: Car door shall close when car call button is pressed.

I. Car Secure Access: Feature that allows car calls to be made inoperative until car button sequence is entered by car pushbuttons to allow actuation of secured floor calls.

J. Firefighters' Service: Phase I and Phase II as per elevator code.

1. Main Recall Landing: Cars 1 and 2 (Floor 1) Car 3 (Floor LL)
2. Alternate Recall Landing: As determined by local code authority.

K. Load Weighing Device.

L. Loaded Car Bypass.

M. Top of Car Inspection.

N. Automatic Standby Power Operation:

1. This operation shall return the cars automatically to a designated landing when the system is initially switched to standby power. System shall be provided so that the car is returned and all code requirements for emergency power operation are met. Provide all code required items as per elevator operation including, but not limited to, an illuminated signal at primary landing as per code for Emergency Standby Power.

2.4 CONTROLLER CHARACTERISTICS

A. Duplex two (2) Car Group Control System (Cars 1 and 2) Simplex (Car 3)

1. Programmable Parking: Elevator shall be provided with a programmable feature to enable parking of the elevators as desired by owner.
2. The Duplex (2) car group control system shall operate to meet the traffic conditions on the basis of demand.
3. Power provisions shall be incorporated into the elevator control dispatch system to prevent loss of control memory, sequence of operation and/or other control functions due to fractional

power interruptions, spikes, and other interferences.

4. A car traveling “UP” shall reverse and return to the dispatch floor after it has answered its car calls and any ‘UP” hall calls assigned to it. “DOWN” hall calls shall be answered by the car on the return trip.
5. When the incoming traffic diminishes, the control shall reallocate cars from the dispatch floor and permit cars to park with their doors closed at the last floor served, with a car parked in the lobby or main floor level at all times.
6. The control shall give priority in assignment of a hall call to a car with a corresponding car call. If this coincident hall call cannot be answered within the adjustable priority time, the car with the best potential arrival time shall be assigned to the hall call.
7. The controls shall incorporate a Fail-Safe Dispatching Operating System. Should the car selection or dispatching system fail, so that cars are not dispatched within the predetermined interval and in accordance with the conditions of the operating pattern in effect, the cars shall leave the dispatching terminals without regard to sequence of regular interval and proceed to answer registered calls in the normal sequence and manner until dispatching malfunctions are corrected and normal service is restored, unless fire return features have been activated.

2.5 EQUIPMENT: MACHINE ROOM COMPONENTS

A. CONTROLLER: Provide a microprocessor-based control system for new AC drive motors to perform all of the functions of safe elevator operation. Controller shall utilize a position velocity feedback system utilizing an encoder to maintain car speed within 3% regardless of load or direction. The system shall also perform car and group operational control.

1. Absolute Positioning: All collective selective elevator systems shall provide absolute positioning features within the elevator control system.
2. Controller shall be separated into two distinct halves: Motor Drive side and Control side. High-voltage motor power conductors shall be routed so as to be physically segregated from the rest of the controller.
3. Field conductor termination points shall be segregated; high voltage (>30 Volts DC and 110 Volts AC) and low voltage (< 30 Volts DC).
4. EMC Testing: Controllers shall be designed and tested for Electromagnetic Interference (EMI) immunity according to the EN 12016 (May 1998): “EMC Product Family Standards for lifts, escalators, and passenger conveyors, Part 2 – Immunity”.
5. Controller shall be provided with the highest possible level (all levels) of microprocessor control testing device, tool, or maintenance terminal suitable for all, but not limited to, troubleshooting, system adjustment/modification, emergency or special code required adjustment and maintenance procedures, etc. relating to the particular type of installed controls. This device shall be the sole property of the Using Agency and shall be of the non-self-destructible and/or of the non-self-changeable type. The unit(s) will not be leased, borrowed, or returned to the manufacturer. Any need to re-calibrate, replace with a newer version of the unit, adjust and/or modify the unit in any way shall be provided to the Using Agency by the Elevator Contractor at no additional cost. Any replacement or newer unit will be delivered to the Using Agency within three (3) working (business) days of a written notice from the Using Agency. The unit must come with complete instructions and operating techniques required to operate all functions of the device. At no time, and for the life of the equipment, will the manufacturer be allowed to install and/or modify the control system to be of the self-destructible and/or self- changeable type.
6. Load Weighing: The system shall be equipped with an adjustable load-weighing feature (from 65% to 85% of full load) that shall monitor the weight of passenger load. Once the system shall detect an approximate load of 65% of full capacity of the car, the system shall be capable of bypassing current hall landing call demand.
7. Provide one (1) set of required hardware, such as keyboards, monitors or any other tool or device for each elevator, or one for each group of elevators.
8. Provide all levels of codes and/or passwords to gain access to the elevator system for the

complete adjusting, diagnosing (to recall faults), troubleshooting, etc. of each unit.

9. Technical Support: All manufacturer's technical and engineering support personnel must be immediately (within 1 hour) available to the Using Agency for direct assistance at any time during regular and normal hours of the elevator trade. This assistance must be available for at least a ten (10) year period from the acceptance of the last elevator.
10. Future Changes: The manufacturer and/or installer of the controller must agree to make any type of changes to the program as requested by the Using Agency, such as in the case of government agency, building code or ADA requirement, etc., and will be made at reasonable costs at industry accepted rates, for the life of the equipment or for at least a ten (10) year period. In addition, any discretional building feature change will be handled in the same aforementioned manner. All changes will be made in a timely manner and will not exceed fifteen (15) working days to complete.
11. The control system will NOT be allowed to have a built-in modem for remote monitoring.
12. Code Data Plate: A data plate shall be provided by the elevator contractor that indicates the A17.1 Code to be used for inspections and tests. The data plate shall also contain all of the applicable alteration codes. The data plate shall be of such material and construction that the letters and figures stamped, etched, cast, or otherwise applied to the face shall remain permanently and readily legible. The data plate shall be in plain view, securely attached on the main line disconnect or on the controller. The height of the letters and figures shall be provided as per code. Data plate shall be Code Data Plate dot com or equal.
13. Controllers Allowed Shall be:
    a. Motion Control Engineering: Motion 4000 Traction Controller
    b. Smartrise Engineering: Traction Controller
    c. GAL Manufacturing Corp.: GALaxy Traction Controller

2.6 MACHINE:

A. The machine shall be of the geared traction type with the motor, brake, traction and deflector sheave mounted on a continuous bedplate. Sound isolation pads shall be installed to reduce vibration and noise transmission to the building structure.

B. Provide all steel support channels, brackets, bearing plates and beams as required for installation of the new geared machine.

C. Approved manufacturers are Hollister Whitney, Imperial Titan and Torin.

D. The machine bedplate shall be mounted on rubber isolation pads that will prevent noise and vibration from emanating throughout the building structure.

E. Provide new and install rope brake.

F. Provide code compliant sheave and rope guarding.

G. Clean and paint the new hoist machines.

2.7 ALTERNATE 1: OPTIONAL GEARLESS DRIVE MACHINES.

A. Replace the geared traction machines with Gearless Drive Machines.

B. AC induction or P.M.S.M. gearless traction type motor with brake, drive sheave and deflector sheave mounted in proper alignment on a common, isolated bedplate. Provide bedplate blocking to elevator secondary or deflector sheave above the machine room floor.

C. Approved manufacturers are Hollister Whitney, Imperial, Titan, and Torin.

D. The machine bedplate shall be mounted on rubber isolation pads that will prevent noise and vibration from emanating throughout the building structure.

E. Gearless machine shall be equipped with an emergency brake.

F. Provide code compliant sheave and rope guarding.

G. Clean and paint the new hoist machines.

2.8 MACHINE BRAKE:

A. Provide Brake with switch to monitor brake operation with the elevator control system.

B. Adjust the brake to set after the car has stopped level at the floor on a normal stop for a car or hall call. Do not use the brake to assist in stopping the car at the floor on a normal stop.

2.9 DEFLECTOR SHEAVES (IF NECESSARY)

A. Provide new deflector sheave in hoistway below machine room or in machine room.

B. Provide new deflector sheave(s), as necessary, at all required locations.

C. The sheaves shall be cast of the proper hardness to provide maximum life and minimize wear to sheave and hoist cables.

D. The sheaves shall be manufactured to have roller bearings of sufficient size to withstand the maximum loading of the elevator.

E. The sheaves shall be properly installed and aligned so as to prevent vibration during operation.

F. Provide all necessary steel support channels, angles, brackets, bearing plates and beams as required for installation of the new sheaves.

G. The sheave shall be provided with a means that will prevent the cables from leaving or jumping out of the grooves when cable tensioning is improper. All guards as required by code, shall be provided.

H. Provide kick guards around the suspension cable openings in the floor of the machine room.

2.10 EMERGENCY BRAKING MECHANISM OR ROPE GRIPPER

A. Provide an emergency brake device that shall stop or grip the hoist ropes of each car to stop an ascending car or from the movement of a car in an unintended manner.

B. The framework supporting the rope gripper must withstand upward and downward forces appropriate for the elevator system and comply with the elevator code. The framework must prevent sliding and be securely fastened as per the manufacturer's recommended installation procedures. The manufacturer's installation instructions, as well as the model number of the rope gripper shall determine the mounting method. The geared machine must also be prevented from sliding.

C. Install the rope gripper to be aligned with the machine beams.

D. The hoist ropes shall be centered and aligned on the mounting channel, and between the rope gripper pads. Align the rope gripper so that the stationary lining pad barely touches the ropes from top to bottom and from side to side and as required by manufacturer.

E. Install metal clips with screws that shall secure the rope gripper hose and Greenfield wiring to the machine room floor and/or any metal support channels or angles.

F. Follow all of the manufacturer's installation instructions (installation manual) for proper installation of the rope gripper device.

G. Thoroughly test the rope gripper, utilizing the testing procedures identified in the manufacturer's installation manual.

H. The Elevator Contractor shall be required to hire a certified structural engineer to verify the rope gripper installation means, as outlined by the rope gripper manufacturer's requirements for "pull-through" strength. The structural engineer shall be required to submit a letter that includes their professional seal, as well as verification of acceptable installation methods.

2.11 AC MOTOR DRIVE

A. A variable Frequency AC drive system shall be provided. The system shall be non-regenerative. Approved manufactures are:

1. MCE 12 pulse
2. Magnatek
3. KEB

2.12 GOVERNOR:

A. The car safety shall be operated by a centrifugal speed, bi-directional governor.

B. Governor shall be provided with a Live Shaft (if required) for tapeless landing system options or accommodations.

C. The top and sides of the moving governor shall be protected by a metal shroud and shall be secured with removable bolts/screws for accessibility.

D. Governor Installation location shall provide reasonable means to completely disassemble and service / maintain, inspect, "in place" all components of the governor.

E. Provide new governor tension sheave in the pit, mounted in a steel frame securely fastened to the main car guide rails and provided with guides or pivot points to enable free vertical movement. Provide new rope guards.

F. Approved manufacture is Hollister Whitney.

2.13 HOIST AND GOVERNOR CABLES

A. Provide new traction steel hoist cables of the proper size, dimension, and strength for this application.

B. Provide new hoist rope cable tapered sockets with adjustable shackles.

C. Provide a new governor cable of the proper size, material, dimension and strength for this application.

D. All ropes shall have the proper rope data tags installed.

2.14 SELECTORS

A. Positioning encoder landing selector: Tape selector shall be permitted.

2.15 EQUIPMENT ACCESS

A. All equipment requiring maintenance and periodic inspections shall be accessible, and shall be able to be disassembled, maintained and inspected "in place".

2.16 EQUIPMENT: HOISTWAY COMPONENTS

A. Hoistway Operating Devices: Provide hoistway access control at the top and bottom landings.

B. Car and Counterweight Buffers: Refurbish existing spring buffers.

C. Guide Rail Systems: Retain existing. Clean and paint with a black finish the car and counterweight guide rails. Verify existing rails are plumb.

D. Guide Rail Inserts: Retain existing and inspect each insert to verify proper attachment.

E. Pit Stop Switch: Provide one (1) new stop switch in the pit for each elevator. They shall be located approximately 18" above the floor level and accessible from the pit access door.

F. Hoistway Switches and Wiring: Provide new traveling cable, hoistway wiring and switches for operation with new control system.

G. Pit Ladder: Replace with new stationary ladder. If code required clearances cannot be met, use retractable ladders by Smart Elevator Tech-Retracta Ladder®.

H. Elevator contractor to install a protective construction screen, mesh or other suitable barrier between the elevator cars to protect the other hoistway while work is being performed in the other.

2.17 HOISTWAY ENTRANCES

A. Frames: Paint (Color to be chosen at a later date)

B. Alternate no. 2: Frames: Re-clad existing hall door frames with a no. 4 satin stainless-steel finish. Must use a minimum of 16 ga. no. 4 satin stainless-steel material.

C. Entrance equipment:

1. Clean and paint existing hall door struts and headers in a matte black finish.

2. Clean existing hall door sills to have a new appearance and seal after cleaning.

3. Provide a minimum of 8’ 0” tall plywood and painted barricades on each level and at each opening when work is being performed to each elevator. Each barricade will have an operational metal door, be lockable and have hardware keyed alike to provide access on each level from the corridor.

D. Entrance Markings: Braille entrance designations as per the ADA and A117.1. Tags shall contain an adhesive back. Markings shall be provided on both sides of the entrance as per applicable codes.

E. Sills: Clean to new appearance and seal.

F. Sill Supports: Reuse existing, clean, and paint with matte black finish.

2.18 HOISTWAY DOORS

A. Doors: Paint (Color to be chosen at a later date)

B. Alternate No. 2: Doors: New door panels shall be provided.

1. New door panels shall have a no. 4 satin stainless-steel 16 ga. finish and include new site guards and drilled for emergency key access on all levels.

2. Provide new door gibs with fire stops.

C. Door Interlocks: Provide new hoistway door interlocks, pickup linkage and roller assembly and all necessary components required for code compliant operation. Each hoistway door panel shall contain an emergency release hole, with a stainless-steel tube and collar. Allowable manufacturers are:

1. GAL Manufacturing Corp

D. Door Closers: Provide new door closers on hoistway doors.

E. Hoistway Door Hangers and Tracks: For each hoistway sliding door, provide new tracks, struts, header, hangers, rollers and any related hardware required for proper operation. Sheaves shall be of the proper diameter and have polyurethane tires with ball bearings properly sealed to retain grease. Allowable manufacturers without written approval:

1. GAL Manufacturing Corp.

F. Door Safety Gibs: All horizontally sliding hoistway and car doors shall have a minimum of three gibs at the bottom of each door. One of the three gibs shall be solid metal so that fire cannot cause the gib to come out of the door sill grooves.

G. Keyhole: Each hoistway door panel will need a new keyhole provided with a stainless-steel escutcheon tube and collar.

2.19 EQUIPMENT: CAR COMPONENTS

A. Car Safeties: Retain existing. Clean, inspect, lubricate, and adjust.

B. Car Balance & Weight Frame: Provide adequate weights and weight frame to static balance the elevator cab and car frame. Static balance is the front to back and side-to-side balance of the hanging car alone, and not the balance relationship between the car and counterweights. Balance shall be within + or - 50 lbs.

C. Platform: Reuse. The platform shall be provided with a new platform (toe) guard to replace the existing guard. New guard shall be 48” in length vertically, as measured from the top of the car sill.

D. Door Operators: Provide high-speed, heavy-duty door operator. Provide related door hardware, clutch assembly with integrated door restrictor and equipment of one of the following manufacturers and models:

1. GAL Manufacturing Corp. Model MOVFR heavy-duty operator.

E. Doors: New cab door panels shall be provided with new no. 4 satin stainless-steel finish.

F. Cab Door Hangers and Tracks: Provide new tracks, header, hangers, rollers, door close limit switch, gibs and any related hardware required for proper operation. Sheaves shall be of the proper diameter and have polyurethane tires with ball bearings properly sealed to retain grease.

G. Door Clutch: Provide new clutch and hardware necessary for proper operation.

H. Door Operation:

1. Force Limiting Operation: Provide fully adjustable means to limit the door pressure while closing to a maximum of 30 foot-pounds and a maximum of 7.5 foot-pounds kinetic energy.

2. Nudging Operation: Nudging functions shall be provided but doors shall be able to be adjusted to remain fully open if door screen continues to be obstructed and a door-nudging buzzer shall sound rather than the door going into actual nudging. Doors shall fully reopen if door screen becomes obstructed during closing.

a. Door Buzzer: Provide adjustable means to sound audible electronic tone when doors are held open for an adjustable period of time.

3. Door Timing and Operation: Provide separate adjustable timers to vary the time the doors are held open or before they close for answering car calls, answering hall calls, for door open time, and nudging operation.

a. The dwell time for a car call stop at a typical floor shall be adjustable between one (1) and eight (8) seconds and the dwell time for a hall call stop shall be adjustable between one (1) and eight (8) seconds.

4. The hall call timing shall predominate in the event of a coincidental car and hall call stop.

5. Door Stall Operation: Provide means to re-open doors in the event that the doors do not close fully within 30 seconds of closing operation. Provide means to remove the elevator from service after the third unsuccessful attempt.

6. Door Time for Main Landing: Door dwell times shall be field adjustable with resolution to 0.1 seconds. The dwell time at the main dispatch floor shall be adjustable between three (3) and fifteen
(15) seconds.

7. Interrupted Door Screen: Upon interruption of the car door detector unit, the door open time shall be able to be reduced to an adjustable time of 0.5 to three (3) seconds.

a. Hall and Car Stop Times for Door Screen: The door detector control (door dwell time) shall be separately adjustable for car and hall calls.

I. Door Protection System: Provide code compliant 40 beam, infrared, double diode transmit system, which shall initiate door re-opening operation.

J. Cab Components: Existing cab shell to be retained. Provide a new cab interior by SnapCab. Model shall be APEX I or Apex II or equivalent.

1. Shell: Reuse

2. Canopy: Reuse and repaint elevator cab top.

3. Car Door Panels: New door panels with no. 4 satin stainless-steel finish.

4. Ceiling Type: New modular no. 4 satin finished stainless-steel ceiling system with LED, round and perimeter lighting.

5. Cab wall panels: Provide Snap-Cab or equivalent APEX I or APEX II colors and material to be chosen at a later date.

6. Layer 2: Provide Textured stainless (5WL)

7. Layer 3-6: Provide Wilsonart® Premium Laminate –Colors to be chosen at a later date. .

8. Handrail: 2” Flat Bar handrails

9. Front Return Panels: Polish Existing. If polishing is not appropriate, clad each front return with a no. 4 satin stainless-steel finish.

10. Transom: Polish existing. If polishing is not appropriate, clad each transom with a no. 4 satin stainless- steel finish.

11. Cab Lighting: Install new LED, round and perimeter lighting as a part of the new cab ceiling system.

12. Emergency Car Lighting: An emergency power unit on elevator employing a sealed rechargeable battery and totally static circuits shall be provided to illuminate the elevator car and provide current to the alarm bell in the event of building power failure.
13. Emergency Pulsating Siren or Alarm Bell: Siren/alarm bell mounted on top of the car that is activated when the alarm button in the car-operating panel is engaged. Siren/alarm bell shall have a rated sound pressure level of 80 dba at a distance of 3.0 m from the device. Siren/alarm bell shall respond with a delay of not more than 1 second after the switch or push button has been pressed. The bell shall contain a separate battery-charging unit including a solid-state charger and a means for testing the device. The button shall light when pressed.
14. Mount owner provided security camera and assist security vendor provided by County.
15. Exhaust Fan: Install new cab exhaust fans in each elevator cab.
16. Car Top Inspection Station: The car top shall be equipped with an inspection station with continuous pressure "Up", "Down" and "Enable" buttons for operating the elevator, an emergency stop button, a light and duplex GFCI receptacle and a selector switch that will make the top of car operating device operative. The light and stop switch shall be within convenient reach from the access doorways.
17. Top of Car Safety Railing: Provide a standard railing on the car top. Railing shall consist of a top rail, intermediate rail, posts and toe-board. The top rail shall have a smooth surface and the upper surface shall be located at a vertical height of 42 inches from the top of the car. The intermediate rail shall be located approximately half-way between the top rail and the top of the car. The toe-board shall be securely fastened to the posts and extend for the car top to a height not less than 4 inches.
18. Car Threshold / Sill: Replace with proper size to match the height of the new flooring.
19. Floor: Install new cab flooring as selected by owner's representative.
20. Car Guide Assemblies: Provide heavy-duty "ELSCO" roller-type guides that are applicable to the size and capacity of the installation. Roller guides shall allow front-to-back and side-to-side adjustment of each guide. Each arm shall be spring mounted with adjustable stops. Roller shall be a minimum of six inches (6") in diameter. Guide assemblies shall be designed to maintain guidance with the loss of the roller.
21. Provide a new protective roller guide plate over the car top roller guide assemblies to prevent accidental contact with the rotating wheels.
22. Counterweight Guide Assemblies: Provide heavy-duty "ELSCO" roller-type guides which are applicable to the size and capacity of the installation. Roller guides shall allow front-to-back and side- to-side adjustment of each guide. Guide assemblies shall be designed to maintain guidance with the loss of the roller. Counterweight roller guides shall be not less than 3" in diameter.
    a. Provide a new protective roller guide plate over the counterweight roller guide assemblies to prevent accidental contact with the rotating wheels.
23. Escape Hatch: Provide escape hatch safety switch for each elevator.

2.20 FIXTURES

A. General: Provide all new car and hall fixtures including car station, hall directional arrows/position indicators and hall push buttons. LED lighting shall be provided with all fixtures. Allowable manufacturers are:
    1. Innovation Industries-
    2. Mad Fixtures

B. Fixture Finish:
    1. Car Fixture Faceplate Finish: No.4 satin stainless-steel
    2. Hall Fixture Faceplate No. 4 satin stainless-steel. Fixures to be surface mounted with engraved emergency signage.

C. Hall Position Indicators: Only Digital Style minimum 2" high hall and car Position Indicators or units that require no bulbs or maintenance shall be provided.

1. Hall Position Indicator-Main Floor: Provide new minimum 2” high main floor digital position indicator on the main lobby level with no. 4 satin stainless-steel finish.
2. Hall direction indicators – Provide on all level digital floor direction indicators with audible signals as required by A117.1 and ADA Accessibility requirement.

D. Hall Stations: The elevators shall be provided with one riser of hall button fixtures. The riser will replace the existing fixtures. At each terminal landing, single button type fixtures shall be provided, and at the intermediate landing a dual button type fixture shall be provided, containing appropriate "Up" and "Down" buttons. All fixtures shall be installed at proper height to comply with A117.1 and ADA. The hall button fixture faceplates shall be the flat, applied type that is surface mounted with the wall. The hall buttons shall operate such that when a call is registered by any momentary pressure on the landing button, the button shall become illuminated and remain illuminated until the call is answered. Each hall button station shall include LED lamped buttons.
   1. New Main Floor Hall Station: The new main floor hall station will also contain the Fire Emergency Operation (FEO) Phase 1 key switch, FEO illuminating jewel, engraved Phase 1 instructions and Emergency power jewel.
   2. All New Hall Stations: The faceplate of all new hall stations shall be engraved with the fire evacuation sign incorporating a pictograph as depicted in Figure 2.27.9 of the Elevator Code.

E. Hoistway Access Key Switches: Hoistway access key switches shall be consistent with other hoistway access key switches in the building. Provide at the upper and lower landings. Drilling, cutting, and sealing of holes in the hoistway walls necessary for the proper location and mounting of hoistway access switches shall be the responsibility of the elevator contractor.

F. Car Operating Panel: Provide surface-mounted metal panel(s) containing call button(s) for each landing served and containing other buttons, switches, and controls required for specified car operation and control. Mount at height complying with A117.1 and ADA. Provide operating device symbols required by A117.1 and ADA. Mark other buttons and switches with manufacturer's standard identification for required use or function. Car Operating Panels shall contain, but not be limited to, LED illuminated pushbuttons marked to correspond to the landings served, a "Door Open" and “Door Close” button, a key operated car light and fan switch, a hoistway access enable switch and a key operated independent service switch. Key switches for Firefighter's Service Phase I and Phase 2 shall be “FEO-K1 as required by code. Passenger cars have one (1) Car Operating Panel each.
   1. Car Position Indicator: The car operating panel shall contain and incorporate a two inch (2”) Blue L.E.D. digital position indicator with directional arrows so arranged that as the car travels through the hoistway, its position shall be indicated by illumination of a numeral corresponding to the landing at which the car is stopped or passing. The digital position indicator shall be integral with the main car operating panel and shall have a hard-plastic lens cover for protection.
   2. Provide a stainless-steel panel to cover the opening where the existing car position indicator is located.

G. Elevator Designation Plate: At the top of the Car Operating Panel, provide a removable plate with the elevator designation engraved into it.

H. Capacity Plate: The elevator capacity plate shall be located at the top of the car station.

I. Utility Outlet: A 125V 15 amperes utility outlet with ground-fault circuit-interrupter protection shall be furnished in the cab.

J. Operating Permit Frame: Stainless-steel finish.

K. Hall Fixture Finish: LED lighted – No. 4 satin stainless-steel.

L. Hall Lanterns/Position Indicators with Floor Arrival Tones: Provide fixtures on the car that sound in the car as it reaches the appropriate floor with LED illuminated “Up” and “Down” signal arrows. Provide units to match materials, finishes and mounting method with the car push button stations.

M. Emergency Phone in Car Operating Panel: The car station shall be provided with an ADA compliant emergency phone. Contractor shall coordinate with the Using Agency to ensure a proper, code-compliant communication system upon completion. Phone shall be compatible with two-way emergency communication system and meet all current codes.

N. All other elevators located in the same building will need to have the existing Firefighters' Emergency Operation Phase 1 key switches changed out to match the new FEO-K1 switches installed as part of this modernization. Elevator Contractor shall include this work in this project.

2.21 MONITOR WITH KEYBOARD INTERFACE

A. Each elevator group shall have a built-in monitor of not less than 7" diagonal measurement, with keyboard interface, that can display the following information:

1. Group Display: Shows car position, door status, registered car and hall calls, the hall call assignment and the hall call ETA time. The keyboard interface shall allow car calls for each car in the group and hall calls to be entered.
2. Individual Car Diagnostics Display: Shows the status of individual inputs and output. This display also shows the car service status, current fault, demand velocity, encoder velocity, velocity difference between demand and encoder, car position, position indicator, floor count (learned on setup), pulse count locations, run command, encoder direction and the direction preference.
3. Hall Call Display: The up and down hall call inputs from the serial hall call boards.
4. Elevator Traffic Statistics Screen: Displays the number of car and hall calls, the number of hall calls less than 15, 30, 45, and 60 seconds, and the number of hall calls greater than 60 seconds. The display also shows the percentage of calls answered for each category.
5. Fault Log (for each car): Car fault display shows car faults in the order that the faults occurred. The fault buffer on the car shall hold at least 50 of the last faults in a circular buffer. The fault display shows the fault, the time it occurred, the date, the car position and the number of consecutive occurrences. A detailed car fault display must show the standard car fault information plus additional control information that is stored at the instant the fault is recorded.

2.22 ELECTRICAL REQUIREMENTS

A. Traveling Cables and Electric Wiring

1. All wiring provided shall be new insulated copper wiring and shall have a flame retarding and moisture resisting outer cover which shall be run in metal conduit, metal piping or metal duct work. All wires shall bear Underwriters Laboratory (UL) approval and shall adhere with all NEC code requirements.
2. Provide new electrical wiring and traveling cables that shall be properly secured and shall meet all code requirements.
3. Provide new wiring trough and conduit necessary for complete installation.
4. Traveling Cable Spares:
   a. Spare Wires: The traveling cable for the elevator shall have no fewer than 8 spare conductors or 10 percent spare conductors, whichever is greater. The spares shall be properly marked and tagged.
   b. Communication Wire: One pair of shielded communication wires shall be provided for an emergency phone and one spare pair of shielded communication wires shall be provided in the traveling cable to the car.
   c. Shielded twisted pair: Two shielded twisted pair conductors shall be provided in the traveling cable.
5. Car Station Spares: A minimum of 8 spare conductors shall be supplied to the car station from the machine room.
   a. Other Equipment Spare Wires: The number of spare wires shall be maintained and allowed for regardless of other equipment installed inside the elevator car at time of installation, such as security card reader, camera, intercom, etc. The additional spares shall be properly marked and tagged.
6. Hoistway Wire Spares: There shall be no fewer than 8 spare conductors from the elevator controller to a hoistway pull box at the bottom of the hoistway or hoistway junction box. The additional spares shall be properly marked and tagged in the pull-box / junction box and controller.

B. Compression Fittings: Only compression style electrical conduit fittings shall be used.

C. Electrical Piping: All electrical piping runs to the elevator equipment shall be installed overhead or in a manner which will not restrict access to and around any control or machine equipment.

D. Splices: Conductors shall be continuous from outlet to outlet and no splices shall be made except where absolutely necessary and then only made inside a junction or pull box.

E. Environment: Elevator controls and equipment shall be capable of operating properly while the temperature is maintained between 50- and 90-degrees Fahrenheit and the humidity is maintained below 80 percent non-condensing in all equipment areas.

F. Motor Wiring to Controller: All motor and control wiring outside of an enclosure such as a motor pull box, governor, etc. shall be run in properly sized conduit to the controller.

G. Grounding of Equipment: A properly sized grounding wire shall be provided from the elevator machine room's mainline disconnect to a motor control center panel. A separate properly sized ground wire shall be provided from the main line disconnect to the elevator controller. All elevator equipment including, but not limited to, motor drives, and encoders, shall be properly grounded to this system.

H. NEC Electrical Clearances: Maintain all clearances around all equipment in conformance with the NEC rule 110.26.

I. Fire Alarm Interface: Elevator Contractor shall coordinate with Electrical Contractor to make final connections of existing fire alarm wiring to new elevator controllers. Final connection to controller will be made by the Elevator Contractor.

J. Telephone Wiring: Elevator will require one dedicated, incoming phone line to the elevator primary machine room. Telephone line to be brought to new elevator controllers. Final connection to controller will be made by the Elevator Contractor.

3. EXECUTION

3.1 INSTALLATION

A. Should the Elevator Contractor proceed with any additional work without the prior written consent of the AE and/or owner's representative, then the Elevator Contractor shall absorb all of the costs associated with the work that was performed.

B. The Elevator Contractor shall include and perform the following as part of the execution of the work detailed in the specification:

1. Confirm that the Specifications and Contract Documents are complete with regard to the work required to provide for a complete, legal and Code-compliant installation.

2. Confirm that the elevator equipment to be provided will fit within the space available as specified.

C. General: Comply with Manufacturer's instructions and recommendations and to applicable Codes & Standards to provide a quiet, smoothly operating installation, free from side sway, oscillation, or vibration.

D. Contractor Shall Supply All Equipment and Supervision Required: The manufacturer/contractor shall provide all items, articles, and operations listed, mentioned, and herein specified, including all tools, scaffolding, safety devices, supervision, and incidentals necessary and required for the elevator completion. The contractor shall supply all safety equipment necessary to accomplish this project including, but not limited to, ladders, safety harnesses, safety barriers, warning signs, and scaffolds. All of the equipment will be like new and in first-rate condition.

E. Coordination: Coordinate elevator work with work of other trades for proper time and sequence to avoid construction delays. Use benchmarks, lines, and levels designated by contractor, to ensure dimensional coordination of work.

1. Fire Alarm Interface: Elevator Contractor shall coordinate with Electrical Contractor to make final connections of existing fire alarm wiring to new control panel.

F. Alignment: Verify guiderails are installed plumb and square to opposing rail and aligned with hoistway

entrances.

G. Hoistway Clearances: There shall be a minimum clearance from anything located on the car or cab to anything attached to or in the hoistway of ¾" unless closer running clearances are required and necessary for the proper operation of the elevator system. Items requiring ¾" running clearances include, but are not limited to, electrical conduit, raceways, junction boxes, rail brackets, pit ladders, light fixtures, sump discharge lines, etc. Other running clearances shall comply with the Elevator Code as applicable.

H. Floor Accuracy/Leveling Tolerance: The elevator shall stop within ¼" of floor regardless of load or direction of travel and re-level to within ¼" during loading/unloading.

3.2 DEMOLITION

A. Retaining Existing Equipment: The owner reserves the right to retain any of the existing equipment. Contractor shall contact the owner's representative prior to beginning work to establish what materials and equipment shall be retained by the owner.

B. Disposal of Equipment: Elevator Contractor shall be responsible for the legal removal from the premises and disposal of all equipment and material not retained by the owner.

3.3 JOB SITE CONDITION AND CLEANUP

A. Daily Work Area Cleanup: Work areas will be kept orderly and free from debris during installation on a daily basis.

B. Cleanup and Protection of Existing Surfaces: The manufacturer/contractor shall be responsible for the protection of the existing surfaces including walls floors, etc., and the removal of packing materials, and general cleanup of the construction area. Job site shall be left in a pre-job condition at the completion of the project.

C. Patching and Repairing: Elevator Contractor shall be responsible for patching and repairing any holes or penetrations.

D. Cutting and Welding: No on-site welding shall be allowed without prior approval from the Using Agency.

E. Dust: Any cutting of concrete, masonry, or any other material that generates dust shall utilize some means to minimize, control, reduce or eliminate the effects of the dust.

F. Notification: Because of the nature of the occupied buildings that this work will take place in, the contractor shall notify the Using Agency of any cutting that will cause a dust condition. This includes any work that may affect the fire alarm system in the building. Notification shall be a minimum of three working days before work is to begin.

G. Any work causing excessive noise, smoke, odor or other disruption is permitted, The County askes that they be notified at least two (2) days in advance so that they may notify tenants.

3.4 FINAL TESTING AND ACCEPTANCE

A. The Elevator Contractor shall conduct preliminary functional testing to ensure that the elevator installation is complete and ready for acceptance testing. The Elevator Consultant shall be present during this testing. The Elevator Contractor shall then schedule an acceptance inspection of the installation with the Champaign County, Mechanical Division Elevator Inspector. Advance notice of the planned date of inspection shall be sent to the Elevator Consultant and the Using Agency at least five (5) working days prior to the date requested. The Elevator Contractor is responsible for the fees of the Elevator Inspector.

B. The Elevator Contractor and the other project contractors associated with the elevator installation shall provide assistance as required to demonstrate to the Elevator Inspector and the Using Agency that the elevator installation is in compliance with all of the requirements of the State of Illinois Elevator Safety Act, Champaign County Public Works, Mechanical and Electrical Divisions, the City of Urbana and the standards referenced herein. Upon completion of the inspection and a finding of no outstanding compliance issues, the Elevator Contractor shall provide the required statement of testing to the Project Manager for filing.

1. The Elevator Contractor shall be responsible for any re-inspection fees required on the project.
2. The Elevator Contractor is required to notify the Project Manager of any impingements upon the elevator installation by other contracting trades.

C. Testing: Elevator Contractor shall provide testing of load, speed, endurance, and operation in accordance with the requirements of ASME A17.1.

D. Inspection and Acceptance: The Elevator Consultant shall observe the final acceptance tests as witnessed by Champaign County Public Works, Mechanical Division.

3.5 SPARE PARTS INVENTORY TO BE PROVIDE TO OWNER AND REMAIN ONSITE:

A. The elevator contractor is to provide a complete spare parts inventory for the following items upon completion which will remain the property of the owner and be left in the elevator equipment room at all times in a parts cabinet.

1. Elevator Controller repair components and circuit boards.
2. AC motor drive repair components.
3. Selector repair components.
4. Car station pushbuttons and repair components.
5. Digital floor indicator repair components.
6. Car top inspection station repair components.
7. GAL door equipment repair components.

3.6 TRAINING

A. On-site Training: Contractor shall provide training for modernization installations on the complete operation of the elevator system.

3.7 PAINTING & CLEANING

A. Machine Finish, Cleaning and Painting of Equipment: All equipment shall be “touch up” painted and left in a clean condition and meet the following requirements.

B. “Touch Up” Paint: All factory-painted surfaces of machines, motors, governors, car slings, controllers, etc. that have been scratched, welded on, rusted, etc., shall be “touched up” with manufacturer’s standard color paint. Spray paint is not acceptable for “touch up” painting.

C. Paint (no spray paint): All accessories such as unfinished machinery iron work, metal fittings, welded areas, guide rails, (except items such as conduit and wire ropes), that are exposed in the hoistways, pits, and machine rooms, shall be cleaned and painted with one coat of the manufacturer’s standard color enamel, acceptable to the Using Agency. Gloss black paint may be used instead of manufacturer’s standard color on items such as guide rails, and pit channels at manufacturer’s discretion. Factory painted surfaces of guide rails, shall be considered an unfinished surface, and shall require cleaning and painting.

D. Cleaning: At time of final acceptance all debris, dirt, mud, protective materials and dust from all surfaces inside hoistway, machine room, controller, elevator car frame, sill and all other related equipment shall be removed, and elevator equipment shall be left in a like-new clean condition.

E. All non-elevator equipment shall be removed from machine room.

F. Clean and paint the machine room and pit floors with an industry accepted paint.

END 14 21 00

APPENDIX A
ASSOCIATED WORK PROVIDED BY GENERAL CONTRACTOR

The following work to be provided by general contractor. It is the intent for the Elevator Contractor to be work with general contractor. The Elevator Contractor shall provide assistance to sub-contractors provide by General Contractor as needed to perform all work appropriately. Any and all code requirements must be included. All sub-contractors or General Contractor are subject to all of the general requirements and terms and conditions of the contract and approval by the Using Agency.

ELECTRICAL, FIRE LIFE SAFETY, and PLUMBING

A. Provide adequate grounding requirements of elevator equipment to the distribution source.
B. Provide electrical circuits and disconnects in the machine room for the cab lighting.
C. Provide security cameras in elevator cabs.
D. Replace or add existing lighting in the machine room to provide a minimum illumination of 19 ftc.
E. Replace or add existing lighting in the pit to provide a minimum illumination of 10 ftc.
F. Replace existing receptacles in the machine room with GFCI receptacles.
G. Replace existing receptacles in the pit with GFCI receptacles.
H. Any wiring between Emergency Generator and controllers to allow for proper operation and automatic transfer.
I. Remove any abandoned piping and remove any non-elevator related equipment.
J. Provide a complete, independent A/C system with thermostat control for the machine room.
K. Provide necessary fire alarm upgrades necessary to provide a code compliant Firefighters' Emergency Operation.
L. Provide any necessary cutting, patching and painting.
M. Provide any additional work, not indicated above.

APPENDIX B
ELEVATOR CAB

APEX II
SnapCab or equivalent patented interlocking panel system. Panels are fire rated, elevator code and LEED compliant.

Layer 2 in Stainless 5WL
Layer 3-6 Wilsonart® Premium Laminate colors to be chosen at a later date.
2″ Flat Bar handrails
Modular ceiling with recessed LED, round and perimeter lighting
Full stainless on the back of the door – wrap the doors in stainless steel
Add wall studs to hang protective pads.
Provide Protective Pads for South Car #1 and North Car #3

SECTION 26 05 00 – COMMON WORK RESULTS FOR ELECTRICAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes:

1. Electrical equipment coordination and installation.
2. Common electrical installation requirements.

1.3 QUALITY ASSURANCE

A. .Contractor shall be an *Energy Efficiency Measures Installer* certified by the Illinois Commerce Commission. Application information and a listing of current certified contractors can be found at https://www.icc.illinois.gov/authority/energy-efficiency-measures-installer. This certification is a requirement of the energy incentives being pursued by the owner. Contractors not complying with this certification will be financially responsible for the owner's incentive monies forfeited as a result of certification non-compliance.

B. Contractor shall assist with the owner's efforts to attain Ameren Act on Energy incentives as filed by the owner's consultant based on the design in the construction documents. Contractor shall account for the time needed to provide necessary material invoicing, shop drawings and necessary certifications/qualifications.

1.4 COORDINATION

A. Provide piping layout for the entire building including pipe sizes and elevations. Combine piping coordination plans with other trades. Coordinate with the Contractor with the requirement listed in "Coordination Drawings" in the front end documents.

PART 2 - PRODUCTS – DOES NOT APPLY

PART 3 - EXECUTION

3.1 INSPECTION OF BID DOCUMENTS AND PREMISES

A. Visit the premises, take measurements and verify all elevations shown on the drawings, inspect existing conditions and limitations, obtain first hand information necessary to submit a complete bid.

B. Thoroughly examine the complete set of contract documents including work required by other trades. Bidders are cautioned to acquaint themselves with requirements necessitating installation work of material or equipment furnished by other contractors or the Owner.

C. In the event of any conflict, discrepancy or inconsistency among the Contract Documents, interpretation shall be based on the following descending order or priority:

1. Specifications.
2. Drawings, and among the drawings, the following:

    a. as between figures given on drawings and scaled measurements, the figures shall govern;
    b. as between large scale drawings and small scale drawings, the large scale drawings shall govern.

3. In the event that Work is called for by the drawings but not by the specifications, or by the specifications but not by the drawings, the Contractor shall be responsible for such Work.

3.2 COORDINATION

A. Coordinate arrangement, mounting, and support of electrical equipment:

1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
3. To allow right of way for piping and conduit installed at required slope.
4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

B. Coordinate installation of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

3.3 INTERRUPTION OF ELECTRICAL SYSTEMS AND SERVICES

A. Do not interrupt electric systems or service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

1. Notify Architect or Owner no fewer than seven days in advance of proposed interruption of electrical service. Indicate:

    a. The extent of the work to be done during the outage.
    b. Probable length of time required for the outage.
    c. Designed time at which the outage is to begin.

2. Do not proceed with interruption of electrical service without Architect's or Owner's written permission.
3. Schedule work to minimize the number and length of time of the outage(s) or interruption(s) of the various systems and services.

3.4 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

A. Comply with NECA 1.

B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.

C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.

D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.

E. Space Preference:

1. Carefully verify and coordinate the location and level of all lines. Run preliminary levels and check with all other contractors so that conflict in location may be avoided.
2. If conflicts occur, the following preference schedule shall be followed:

    a. Recessed electric fixtures.
    b. High pressure ductwork.
    c. Sanitary drainage.
    d. Steam condensate, hot and chilled water.
    e. Low pressure ductwork.
    f. Domestic water storm and vent lines.
    g. Electric conduits.

3. No other work shall have preference over plumbing lines below fixtures.
4. No other work shall have preference over conduit above or below electric switchgear and above or below panels.
5. No piping conveying fluids shall be provided directly over electrical or elevator equipment.

F. Lines and Levels: Determine all grades, maintain necessary lines and levels throughout the progress of the work and assume full responsibility for their correctness. Where levels are indicated on the drawings, work shall be installed at those levels unless prior written approval to change is obtained from the Architect / Engineer.

G. Location of Equipment: The approximate location of all equipment is shown on the drawings. The Architect / Engineer reserves the right to change the location of all equipment 5' in any direction without these changes being made the subject of an extra charge provided such changes are made before final installation.

3.5 ELECTRICAL DEMOLITION

A. Refer to Division 1 Sections for general demolition requirements and procedures.

B. Disconnect and remove electrical systems, equipment and components indicated to be removed.

1. Light Fixtures to be Removed: Remove light fixtures indicated to be removed along with associated, lamps, trim, supports and fixture whips.
2. Wiring Devices to be Removed: Remove wiring devices indicated to be removed along with associated cover plates.
3. Electrical Equipment to be Removed: Remove electrical equipment indicated to be removed along with associated supports, fittings, raceways and conductors.
4. Motors and Mechanical Equipment to be Removed: Electrically disconnect each motor and piece of mechanical equipment indicated to be removed and remove associated raceways, conduits, devices and electrical equipment.
5. Feeders and Branch Circuits to be Removed: Remove feeders and branch circuits indicated to be removed along with associated supports, fittings, raceway and conductors.

C. All removed electrical equipment, devices, raceways, conductors and associated items, except as noted below, shall become property of the Contractor and shall be properly disposed of by the Contractor.

1. Turn over to the Owner and deliver to a place of storage.

D. Fluorescent and HID lighting lamps and ballasts shall be removed from fixtures and disposed of as follows:

1. Fluorescent and HID lamps and ballasts shall be disposed of in strict adherence to waste Rule 35 III. Admin. Code Part 733.
2. After removal from fixture, lamps and ballasts shall be stored in a safe manner to minimize breakage.
3. Lamps and ballasts shall not be stored longer than six months form the time they are removed from service.
4. Lamps and ballasts shall be delivered to a licensed hauler to be delivered to a lamp and ballasts recycler.
5. Lamps and ballasts shall be transported in a safe manner to minimize breakage.
6. Disposal of lamps and ballasts shall be in accordance with all State and local codes.
7. Ballasts without factory label stating non-hazardous material shall be treated as a hazardous material and disposed of as stated above.

E. Removal of existing electrical devices shall be such that all existing remaining electrical devices are kept in continuous service.

F. Existing circuit conductors connected to outlets, boxes or fixtures being removed shall be disconnected and removed back to next active remaining device.

G. Existing circuit conductors connected to other fixtures, devices or other electrical equipment that are not to be removed or disconnected and are passing through outlet boxes, fixtures and conduit that are being removed; shall be rerouted from remaining existing device to next remaining device as necessary to keep remaining devices in service and existing circuit conductors continuous.

H. Where connections of existing devices cannot be made continuous with existing conduit, boxes and conductors; new raceways and conductors shall be installed from existing remaining device to next remaining device.

I. Disconnect and remove all devices, conduit, wiring, etc., in or on the walls, ceiling, etc., to be removed. Verify all occurrences not specifically shown or noted on plans.

J. For each item disconnected and removed, disconnect and remove defunct circuit wiring back to next active remaining device or to panel or switchboard from which the circuit originates.

K. For each item disconnected and removed, disconnect and remove abandoned, exposed conduits, and / or conduits made exposed by demolition, back to next active remaining device or to panel or switchboard from which the circuit originates.

L. All conditions shall be carefully field determined and verified.

3.6 CUTTING AND PATCHING

A. Examine architectural and structural drawings to determine the general nature of the types of construction to be encountered during performance of electrical work.

B. All cutting and patching of masonry, carpentry, steel, iron work, concrete structural work, and finished surfaces belonging to the building shall be done in order that work may be properly installed. Replace or repair all disturbed constructions or finishes to its original condition and under no condition cut structural work except upon approval of the Architect / Engineer.

C. Cut through ceilings, floors, walls and partitions in a careful manner and fill the openings around the pipes and sleeves.

D. Carefully coordinate locations of openings and sleeves to avoid conflict with other trades. Furnish complete information concerning locations and sizes of openings to other trades in sufficient time for inclusion on their shop drawings.

E. Employ craftsmen and mechanics who are skilled and experienced in their respective trades to perform all cutting, fitting, matching, patch repairing, and finishing work required for installation of electrical work.

F. Perform cutting to neat line, in a manner that will not weaken the wall, partition, or floor being cut. Cut holes in floors to neat line. Perform drilling in a manner that will not cause breaking of floor around the drilled hole.

G. Contractor shall patch, repair and unify all work and material that is cut.

3.7 OPENINGS IN EXISTING CONSTRUCTION

A. In existing construction, perform all cutting and patching where required in connection with the work. Match patching to existing adjacent surfaces.

B. All cutting in existing structural elements of building shall be accomplished with hole saws. Air hammers and cutting torches are not permitted.

C. Reinforced concrete slabs, steel joists, concrete floors and footings, or other structural work shall not be cut or disturbed in any way, unless as approved by the Architect / Engineer. The Contractor shall be held responsible for and correct all damage that he may cause.

D. Openings between conduit and floors or walls through fire or smoke barriers shall be closed with fire stop material to maintain fire or smoke barrier rating.

E. Fire stop material shall be Dow Corning 3-6548 Silicone RTV Foam, Chase Technology Corp. CTC PR-855 fire-resistant foam sealant, 3M CP-25 Series Caulk Fire Barrier, T & B S-101 Fire Barrier or Nelson Flameseal.

3.8 FIRESTOPPING

A. Apply firestopping to penetrations of fire-rated floor and wall assemblies for electrical installations to restore original fire-resistance rating of assembly. Firestopping materials and installation requirements are specified in Division 07 Section Firestopping.

3.9 FIELD CORRECTIONS AND CHANGES

A. Carefully and accurately record on field set of drawings, any deviations or changes in locations of conduit, wiring and/or equipment made in the field and shall keep the Architect / Engineer informed on all deviations and changes.

B. At the completion of the job, furnish the Architect / Engineer three (3) complete sets (not the field set) of drawings indicating these deviations or changes. Extra sets of drawings will be provided to the contractor for this purpose. Any changes in the exterior work shall be recorded by dimension.

3.10 CLEANING UP

A. Before work can be considered complete, clean all surfaces of all paint, plaster, mortar, labels and other stains and remove all lumps of cement. Take care not to scratch, mar, or damaged surfaces in cleaning.

B. In case of dispute, the Owner / User may remove the rubbish and charge the cost to the one or more contractors as the Architect / Engineer may determine to be just.

3.11 TOUCH-UP PAINTING

A. Comply with requirements in Division 9 Painting Sections for cleaning and touch-up painting.

B. All factory applied paint finishes on all electrical items, equipment, panelboards, switchboards, fire alarm devices, etc., that is scratched or damaged shall be touched up with rust inhibitive paint to match factory applied paint.

END OF SECTION 26 05 00

SECTION 27 05 00 – COMMON WORK RESULTS FOR COMMUNICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes:

1. Communication equipment coordination and installation.
2. Common communication installation requirements.

PART 2 - PRODUCTS – DOES NOT APPLY

PART 3 - EXECUTION

3.1 INSPECTION OF BID DOCUMENTS AND PREMISES

A. Visit the premises, take measurements and verify all elevations shown on the drawings, inspect existing conditions and limitations, obtain first hand information necessary to submit a complete bid.

B. Thoroughly examine the complete set of contract documents including work required by other trades. Bidders are cautioned to acquaint themselves with requirements necessitating installation work of material or equipment furnished by other contractors or the Owner.

C. In the event of any conflict, discrepancy or inconsistency among the Contract Documents, interpretation shall be based on the following descending order or priority:

1. Specifications.
2. Drawings, and among the drawings, the following:

    a. as between figures given on drawings and scaled measurements, the figures shall govern;
    b. as between large scale drawings and small scale drawings, the large scale drawings shall govern.

3. In the event that Work is called for by the drawings but not by the specifications, or by the specifications but not by the drawings, the Contractor shall be responsible for such Work.

3.2 PERMITS AND FEES

A. Obtain and pay for all permits and make all deposits necessary for the installation of the work under his contract.

B. Where inspections of the work are required by State or local authorities, obtain certificates of inspection of the work by such authorities, and these certificates (in triplicate) shall be submitted to the Architect / Engineer.

3.3 COORDINATION

A. Coordinate arrangement, mounting, and support of communication equipment:

1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
3. To allow right of way for piping and conduit installed at required slope.
4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

B. Coordinate installation of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

C. Section 07 8413 “Penetration Firestopping” for penetration firestopping installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers, with and without penetrating items.

D. The Contractor shall review the actual conduit/pathway plans within the construction documents to ensure such installations for communication system wiring are correctly sized, adequately positioned, and have the requisite number of pull boxes for installation. The Contractor shall be responsible for all costs associated with conduit changes resulting from failure to preview and approve the conduit/pathway installed by others.

3.4 DRAWINGS

A. All communication drawings are diagrammatic, and it is the contractor’s responsibility to install a complete working system. Special care shall be exercised in the installation of the work to include all material and fittings necessary for a complete installation. Exact dimensions and locations of all outlets shall be verified on site. Before preparing a bid or proposal, the contractor shall examine all architectural and engineering drawings. If any discrepancies or details of the construction interfere with the work, the contractor shall report the same and obtain written instructions as to the changes necessary. Should he neglect to do so, he shall make the necessary changes at his own expense. Modifications of drawings are permissible if coordinated with Engineer/Architect and allowed by Owner.

B. The drawings show only the general routing of the conduit, wiring, pathways, etc. The scale of the drawing does not permit the indication of all junction boxes, pull boxes, and fittings that may be required. The cost of such work shall be considered as part of the contract and extra payment will not be made for such work.

C. Contractor shall refer to plans for the location of communication devices and equipment (data/voice jacks, AV devices, security devices, etc.)

D. Refer to all architectural drawings, including casework drawings, during installation of all devices such that no conflicts will be encountered. Inform architect of any conflicts that occur before the installation of above said devices.

E. Refer to all architectural drawings for elevations of all communication devices.

3.5 INTERRUPTION OF COMMUNICATION SYSTEM SERVICES

A. Do not interrupt communication system services (internet, CATV, etc.) to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

1. Notify Architect or Owner no fewer than seven days in advance of proposed interruption of communication service. Indicate:

    a. Communication system service type.
    b. The extent of the work to be done during the outage.
    c. Probable length of time required for the outage.
    d. Designed time at which the outage is to begin.

2. Do not proceed with interruption of communication system service without Architect's or Owner's written permission.
3. Schedule work to minimize the number and length of time of the outage(s) or interruption(s) of the various systems and services.

3.6 WIRELESS ACCESS POINTS (WAPs)

A. All existing WAPs shall be removed by the contractor, including all jacks and cabling. Replace ceiling tiles as required to match existing. Turn WAPs over to owner.

B. All new WAPs shall be provided by the Owner and shall be installed by the Contractor. Asset tagging will be performed by the Owner prior to turning over to contractor - contractor shall sign for receipt of the WAP devices prior to installation.

C. Contractor shall utilize grid mounting clips and cradle furnished with WAP unit for lay-in ceiling installation. For tegular ceiling installations, contractor shall provide additional rail kit as required. Install ID tag on ceiling grid and on label field on coverplate. For locations that are wall mounted, contractor shall furnish and install Oberon Series #1011-00-WH wall mount bracket or similar with data jack enclosure. The final model number shall match Owner’s WAP device being provided. Coordinate final WAP model with Owner prior to ordering unit.

D. Contractor shall furnish and install an Oberon #1024-C WAP enclosure or similar for WAPs to be installed in high abuse areas. Mount enclosure to bottom of bar joists with through bolts, washers, lock washers and lock nuts. Install ID tag on enclosure and on label field on coverplate. Where these enclosures are shown to be wall mounted, mount devices horizontally and use Oberon -RAB right angle bracket to support these devices. Coordinate final WAP model with Owner prior to ordering unit.

E. All WAP locations shall be provided with boxes, coverplates, jacks, cabling, patch cords and raceway as needed. All exposed conduits in gymnasiums, multipurpose rooms, pools, and other areas shall be painted out to match area.

F. Contractor shall patch-in all WAPs into network jacks.

3.7 COMMON REQUIREMENTS FOR COMMUNICATION INSTALLATION

A. Comply with NECA 1.

B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.

C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.

D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both communication equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.

E. Space Preference:

1. Carefully verify and coordinate the location and level of all lines. Run preliminary levels and check with all other contractors so that conflict in location may be avoided.
2. If conflicts occur, the following preference schedule shall be followed:

    a. Recessed electric fixtures.
    b. High pressure ductwork.
    c. Sanitary drainage.
    d. Steam condensate, hot and chilled water.
    e. Low pressure ductwork.
    f. Domestic water storm and vent lines.
    g. Electric conduits.

3. No other work shall have preference over plumbing lines below fixtures.
4. No other work shall have preference over conduit above or below electric switchgear and above or below panels.
5. No piping conveying fluids shall be provided directly over communication equipment.

F. Lines and Levels: Determine all grades, maintain necessary lines and levels throughout the progress of the work and assume full responsibility for their correctness. Where levels are indicated on the drawings, work shall be installed at those levels unless prior written approval to change is obtained from the Architect / Engineer.

G. Location of Equipment: The approximate location of all equipment is shown on the drawings. The Architect / Engineer reserves the right to change the location of all equipment 5' in any direction without these changes being made the subject of an extra charge provided such changes are made before final installation.

3.8 DEMOLITION

A. Refer to Division 1 Sections "Cutting and Patching" and "Selective Demolition" for general demolition requirements and procedures.

B. Disconnect and remove communication systems, equipment and components indicated to be removed.

1. Communication device to be Removed: Remove communication device indicated to be removed along with associated, trim, supports and fixture whips.
2. Communication Equipment to be Removed: Remove communication equipment indicated to be removed along with associated supports, fittings, raceways and conductors.
3. Communication wiring to be Removed: Remove wiring indicated to be removed along with associated supports, fittings, raceway and conductors.

C. All removed communication equipment, devices, raceways, conductors and associated items, unless noted otherwise on drawings, shall become property of the Contractor and shall be properly disposed of by the Contractor.

D. Removal of existing communication devices shall be such that all existing remaining communication devices are kept in continuous service.

E. Existing system wiring connected to communication devices being removed shall be disconnected and removed back to next active remaining device.

F. Existing communication system wiring connected to other devices or other communication equipment that are not to be removed or disconnected and are passing through junction boxes and conduit that are being removed; shall be rerouted from remaining existing device to next remaining device as necessary to keep remaining devices in service and existing system wiring continuous.

G. Where connections of existing devices cannot be made continuous with existing conduit, boxes and wiring; new raceways and wiring shall be installed from existing remaining device to next remaining device.

H. Disconnect and remove all devices, conduit, wiring, etc., in or on the walls, ceiling, etc., to be removed. Verify all occurrences not specifically shown or noted on plans.

I. For each item disconnected and removed, disconnect and remove defunct communication system wiring back to next active remaining device or to communication equipment from which the circuit originates.

J. For each item disconnected and removed, disconnect and remove abandoned, exposed conduits, and / or conduits made exposed by demolition, back to next active remaining device or to communication equipment from which the circuit originates.

K. All conditions shall be carefully field determined and verified.

L. Provide all abandoned ceiling outlets, switch boxes and outlet boxes with blank coverplates.

3.9 OPENINGS IN NEW CONSTRUCTION

A. Openings required in new construction for communication work will be provided by the Contractor at the request of and in accordance with information furnished by the Contractor. The Contractor will advise the

Contractor in advance so that he may lay out the required openings. If said Contractor fails to lay out required openings, he shall be financially responsible for the necessary cutting, patching and repairing. The patching and repairing will be done by the Contractor.

3.10 CUTTING AND PATCHING

A. Examine architectural and structural drawings to determine the general nature of the types of construction to be encountered during performance of communication work.

B. All cutting and patching of masonry, carpentry, steel, iron work, concrete structural work, and finished surfaces belonging to the building shall be done in order that work may be properly installed. Replace or repair all disturbed constructions or finishes to its original condition and under no condition cut structural work except upon approval of the Architect / Engineer.

C. Cut through ceilings, floors, walls and partitions in a careful manner and fill the openings around the pipes and sleeves.

D. Carefully coordinate locations of openings and sleeves to avoid conflict with other trades. Furnish complete information concerning locations and sizes of openings to other trades in sufficient time for inclusion on their shop drawings.

E. Employ craftsmen and mechanics who are skilled and experienced in their respective trades to perform all cutting, fitting, matching, patch repairing, and finishing work required for installation of communication work.

F. Perform cutting to neat line, in a manner that will not weaken the wall, partition, or floor being cut. Cut holes in floors to neat line. Perform drilling in a manner that will not cause breaking of floor around the drilled hole.

G. Contractor shall patch, repair and unify all work and material that is cut.

3.11 OPENINGS IN EXISTING CONSTRUCTION

A. In existing construction, perform all cutting and patching where required in connection with the work. Match patching to existing adjacent surfaces.

B. All cutting in existing structural elements of building shall be accomplished with hole saws. Air hammers and cutting torches are not permitted.

C. Reinforced concrete slabs, steel joists, concrete floors and footings, or other structural work shall not be cut or disturbed in any way, unless as approved by the Architect / Engineer. The Contractor shall be held responsible for and correct all damage that he may cause.

D. Openings between conduit and floors or walls through fire or smoke barriers shall be closed with fire stop material to maintain fire or smoke barrier rating.

E. Fire stop material shall be Dow Corning 3-6548 Silicone RTV Foam, Chase Technology Corp. CTC PR-855 fire-resistant foam sealant, 3M CP-25 Series Caulk Fire Barrier, T & B S-101 Fire Barrier or Nelson Flameseal.

3.12 FIRESTOPPING

A. Apply firestopping to penetrations of fire-rated floor and wall assemblies for communication installations to restore original fire-resistance rating of assembly. Firestopping materials and installation requirements are specified in Division 07 Section Firestopping.

3.13 FIREPROOFING REPAIR

A. Install all hangers, inserts, supports, anchorages, etc., prior to installation of fireproofing materials. Do not remove or damage fireproofing on roof deck, roof beams, roof framing, floor beams of other floor framing members, columns, or wind bracing during installation of any communication work. If fireproofing is damaged or is removed, repair or replace to satisfaction of Architect / Engineer and at no additional expense to Owner.

3.14 EXCAVATION AND BACKFILLING

A. The Contractor is to call JULIE (Joint Utility Location Information for Excavators) at 800-892-0123 at least two business days prior to any digging, excavation, boring, or other such work. The contractor shall recognize that the JULIE locating service locates only those utilities that participate in the JULIE program and that non-participating utilities, privately-owned utilities, and the Owner's own services will not be located by JULIE. The contractor shall also recognize that the contract documents to not claim to show all utilities existing on the site. In addition to JULIE, the contractor shall provide, at their expense, the services of a private locating service to identify and locate all utilities, public and private, that could be affected by the contractor's work. The contractor shall repair all damage caused by the Contractor's activities promptly to the satisfaction of the owner of the damaged utility. All such repairs shall be conducted at the sole expense of the Contractor that damaged the utility.

B. Conduct all excavations so that no personnel shall be endangered and no building walls or footings shall be disturbed or injured.

C. Excavate to dimensions and elevations required for work.

D. Remove any old foundations, building construction, and other materials concealed beneath present grade, where required to execute work, and as indicated.

E. If undesirable material is encountered during excavation, remove and replace material as directed by Architect / Engineer.

F. Properly level off bottoms of all excavations.

G. Remove all rocks, lumps, frozen ground, soft or wet material, vegetation, and other foreign material upon which fill is to be placed.

H. Scarify top 12" (300 mm) of earth and compact to 95% of maximum dry density.

I. Place fill material in 9" lifts and compact each lift to 90%.

J. Maintain between 0% below and 3% above optimum moisture content during compaction.

K. Compact fill and backfill using suitable mechanical tamping equipment to obtain specified density.

1. Use mechanical hand tampers for filling and backfilling next to walls.
2. Compact granular fill using vibratory methods.

L. Do not permit water to accumulate or remain in trench or other excavation that is a part of this contract. Dispose of water withdrawn from excavations in a manner that will not cause injury to public health, public or private property, or to the work already completed or in progress.

M. All backfill material under buildings, sidewalks, streets, curbs and within 5' of footings shall be sand and gravel, free from cinders, ashes, refuse, vegetable or organic material, boulders, large rocks or stones. Where a utility passes under a building footing, backfill material shall be concrete up to footing bearing surface.

N. Load excavated materials which are to be replaced with sand and gravel backfill, directly from the trench into trucks, remove from the construction area and properly dispose of if where directed.

O. Extreme caution must be used in excavating for new underground services to avoid all damage to existing underground utilities in the working area. Confirm where possible, the exact location of all existing utilities. In the event of a break in an existing utility main or service, immediately notify an official from the utility interrupted and lend all possible assistance in restoring services cut. Also, assume costs or claims connected with the interruption and repair of such service.

P. Excavate the trenches to the depth required so as to provide a uniform and continuous bearing and support for the pipe on solid undisturbed ground or compacted fill.

Q. Wherever excavations are made through streets, sidewalks, parking areas, curbs or other finished surfaces, replace such surfaces with material to match existing surfaces. Where reinforcing steel in concrete is required, install it in a manner similar to that used in existing surfaces.

R. If it is necessary to drive trucks or equipment over sidewalks, pavement, streets, and curbs, take care to protect same from damage. If such surfaces are damaged, replace same with new materials, same type and thickness and in the manner as the original.

S. Reuse original surface materials if, in the opinion of the Architect / Engineer, they are suitable for use in restoration.

T. Excavated material which is to be reused in backfilling or restoring the surface shall be piled in a manner that will not endanger the work and will avoid obstructing sidewalks, driveways or traffic lanes which are to be maintained during construction.

U. Keep all excavated topsoil separated from excavation soil. Stockpile sufficient topsoil to provide 6" top soil at all graded areas. Provide any additional soil from off-site source if required.

3.15 FIELD CORRECTIONS AND CHANGES

A. Carefully and accurately record on field set of drawings, any deviations or changes in locations of conduit, wiring and/or equipment made in the field and shall keep the Architect / Engineer informed on all deviations and changes.

B. At the completion of the job, furnish the Architect / Engineer three (3) complete sets (not the field set) of drawings indicating these deviations or changes. Extra sets of drawings will be provided to the contractor for this purpose. Any changes in the exterior work shall be recorded by dimension.

3.16 OPERATION AND MAINTENANCE INSTRUCTIONS

A. Before final acceptance of communication installations, provide to the Architect / Engineer three (3) bound copies of a complete set of operating and maintenance instructions and procedures for all communication systems and equipment furnished under this contract.

B. Prepare a complete file of maintenance and operating instructions which covers all communication systems and equipment listed in the section entitled "Submittals".

C. Data shall be placed in an 8-1/2" x 11" slide hinge, heavy duty, three-post type, stiff cover binder. Each completed binder shall not exceed 3-1/2" in thickness. Label binder as follows:

COMMUNICATION SYSTEMS
MAINTANENANCE AND OPERATING INSTRUCTIONS
CHAMPAIGN COUNTY PLAZA BUILDING RENOVATION
URBANA, ILLINOIS

D. Data shall include a complete table of contents, tabs, final approved shop drawings, wiring diagrams, manufacturer's operating and maintenance instructions, catalog brochure information, replacement parts lists, name, address and telephone number of nearest stocking supply house.

E. Drawings shall be neatly folded to approximately 8-1/2" x 11" size and inserted individually into 8-1/2" x 11" sheet protectors which shall be properly punched and inserted into the binder.

F. All material relative to the equipment for one system (i.e.; network wiring, paging, local sound systems, etc.) shall be filed behind a clearly labeled filing tab. The following information shall be typed on the filing tab page: Item, Manufacturer, Contractor's Order Number, Supplier's Order Number, Manufacturer's Order Number.

G. Three completed files shall be submitted for review prior to job completion. Final payments will not be certified until the maintenance manuals have been received and reviewed.

H. Authorized manufacturer's personnel shall instruct (to the Owner's satisfaction) all personnel designated by the Owner in the use of equipment and systems as listed in the section entitled "Submittals".

I. Provide a minimum of two man days in two trips to the job before the job is accepted for the instruction and training of the Owner's representative in the operation and maintenance of the complete communication system.

J. The above does not relieve the contractor of his responsibility of making service calls due to any defect which may develop with systems or equipment during the guarantee period nor shall these service calls be included as part of instruction time. Specific requirements in specifications for factor service representatives is also in addition to above requirements.

3.17 CLEANING UP

A. Before work can be considered complete, clean all surfaces of all paint, plaster, mortar, labels and other stains and remove all lumps of cement. Take care not to scratch, mar, or damaged surfaces in cleaning.

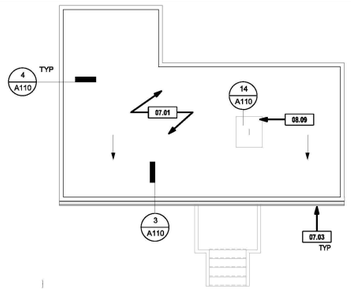
B. In case of dispute, the Owner / User may remove the rubbish and charge the cost to the one or more contractors as the Architect / Engineer may determine to be just.

3.18 TOUCH-UP PAINTING

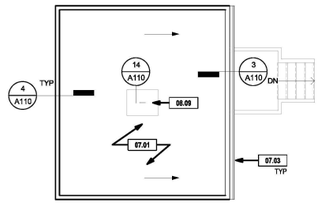
A. Comply with requirements in Division 9 Painting Sections for cleaning and touch-up painting.

B. All factory applied paint finishes on all communication devices and equipment that is scratched or damaged shall be touched up with rust inhibitive paint to match factory applied paint.

END OF SECTION 27 05 00

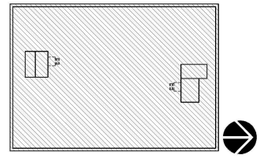


2 **ROOF PLAN - NORTH PENTHOUSE**
3/16" = 1'-0"



3 **ROOF PLAN - SOUTH PENTHOUSE**
3/16" = 1'-0"

KEY PLAN - ROOF



ROOF PLAN LEGEND

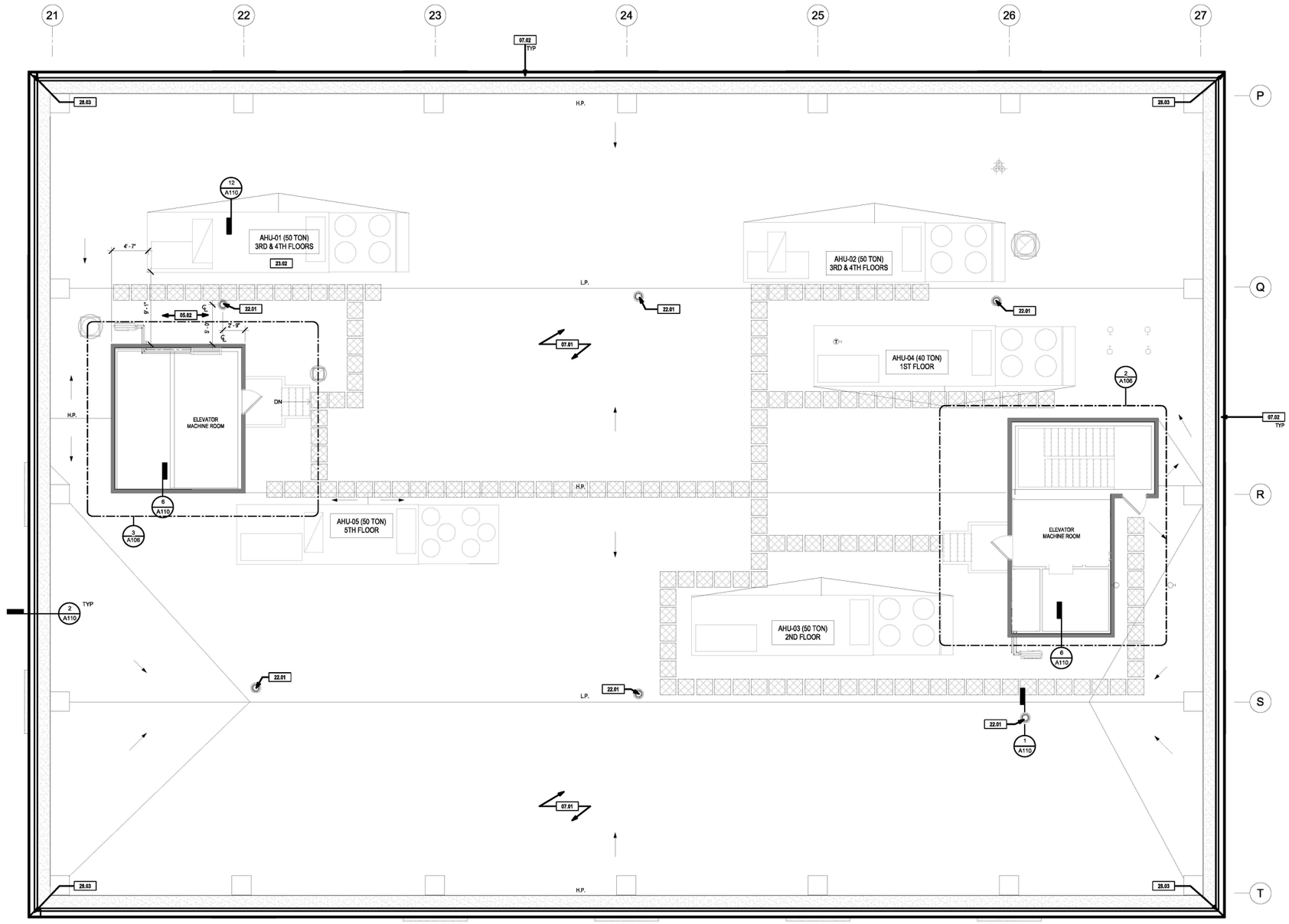
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF 1/2" PER FOOT TAPERED INSULATION
- RD — ROOF DRAIN
- ROOF CURB, 14" ABOVE FINISHED ROOF SURFACE, TYP. PROVIDE CRICKET ON HIGH SIDE OF CURB
- XX.XX — TOTAL HEIGHT OF INSULATION IN INCHES NOT INCLUDING COVER BOARD
- METAL COPING AND JOINT - REFER TO DETAIL 16/A5.23 FOR HORIZONTAL AND VERTICAL JOINT
- VTR — VENT PIPE ROOF PENETRATION
- SD — SCUPPER
- DS — DOWNSPOUT
- EXPANSION JOINT ASSEMBLY
- 24" SQUARE ROOF WALKWAY PAD
- ROOF MOUNTED LIGHT FIXTURE

NEW WORK PLAN NOTES

1. WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE STRINGENT OR HIGHER QUALITY OR GREATER QUALITY REQUIREMENT SHALL APPLY.
2. LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SCALED DIMENSIONS, AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS.
3. REFER TO ENLARGED PLANS FOR FURTHER CLARIFICATION & ASSOCIATED KEYNOTES.
4. ANY EXISTING SHAFT OPENINGS NOT UTILIZED ON MEP DRAWINGS TO BE INFILLED, MATCH ADJACENT CONSTRUCTION. REFER TO MEP DWGS FOR FURTHER CLARIFICATION.
5. DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
6. ALL NEW WALLS ARE TYPE P2 UNLESS NOTED OTHERWISE. SEE SHEET G400 FOR PARTITION TYPES.
7. ALL EXISTING DIMENSIONS SHOWN SHOULD BE VERIFIED IN FIELD BY THE CONTRACTOR. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
8. GC TO CONFIRM PARTITION WALL / MULLION CENTERLINES, AND ALERT ARCHITECT OF ANY DISCREPANCIES

SHEET KEYNOTES

05.02	PATCH EXISTING ROOF DECK AT PREVIOUS CURB LOCATION.
07.01	INSTALL NEW ROOFING SYSTEM PER SHEET G402 - CONSTRUCTION TYPES & SPEC SECTION 07 51 00, 07 53 23 & 07 62 00. REFER TO ROOF DETAILS.
07.02	INSTALL NEW COPING, REFER TO ROOF DETAILS.
07.03	INSTALL NEW GUTTER & FASCIA AT PENTHOUSE ROOF. REFER TO ROOF DETAILS.
08.09	EXISTING ROOF HATCH TO REMAIN. REFER TO ROOF DETAILS.
22.01	INSTALL NEW ROOF DRAINS & ROUTE TO EXISTING DOWNSPOUT. REFER TO ROOF DETAILS & MEP DWGS FOR CLARIFICATION.
23.02	PROVIDE NEW ROOF CURB. REFER TO MEP FOR FURTHER CLARIFICATION.
28.03	NEW SECURITY CAMERAS MOUNTED AT COPING



1 **ROOF PLAN**
3/16" = 1'-0"

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

STRUCTURAL ENGINEER
ENGINEERING RESOURCE ASSOCIATES
2416 GALEN DRIVE
CHAMPAIGN, IL 61821
217.351.6268

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUE FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title

ROOF PLAN

BE Project No.: 021212
Drawn By: Author
Drawing No.: A106

ELECTRICAL SYMBOL SCHEDULE

LIGHTING

L1 / 2a — LIGHT FIXTURE. "L1" INDICATES LIGHT FIXTURE TYPE - SEE LIGHT FIXTURE SCHEDULE. "2" INDICATES CIRCUIT NUMBER WITHIN NOTED PANEL - SEE LIGHTING PLANS FOR BRANCH PANEL ASSIGNMENT. "a" INDICATES LIGHTING ZONE WITH SPACE IN WHICH FIXTURE IS INSTALLED. PROVIDE UNSWITCHED HOT TO FIXTURE LOCATION - TYPICAL OF ALL LIGHT FIXTURES.

- 2'x4' RECESSED LIGHT FIXTURE
- 2'x4' RECESSED DIRECT/INDIRECT OR VOLUMETRIC LIGHT FIXTURE
- 2'x4' SURFACE MOUNT LIGHT FIXTURE
- 2'x2' RECESSED LIGHT FIXTURE
- 2'x2' RECESSED DIRECT/INDIRECT OR VOLUMETRIC LIGHT FIXTURE
- 2'x2' SURFACE MOUNT LIGHT FIXTURE
- 1'x4' RECESSED LIGHT FIXTURE
- 1'x4' RECESSED LIGHT FIXTURE
- WALL MOUNT LIGHT FIXTURE
- UNDERCABINET OR STRIP LIGHT FIXTURE
- RECESSED OR SURFACE MOUNT DOWNLIGHT FIXTURE
- RECESSED OR SURFACE MOUNT SPECIALTY FIXTURE
- RECESSED OR SURFACE MOUNT LARGE SPECIALTY FIXTURE
- PENDANT MOUNT LIGHT FIXTURE
- GRADE MOUNTED FLOOD LIGHT FIXTURE
- POLE MOUNTED AREA LIGHT FIXTURE
- WALL MOUNTED EMERGENCY EGRESS LIGHT FIXTURE - PROVIDE UNSWITCHED LIGHTING CIRCUIT TO FIXTURE.
- CEILING MOUNTED EMERGENCY EGRESS LIGHT FIXTURE - PROVIDE UNSWITCHED LIGHTING CIRCUIT TO FIXTURE.

EXIT SIGN. ARROW INDICATES DIRECTIONAL ARROW ON FACE. PROVIDE UNSWITCHED AREA LIGHTING CIRCUIT TO FIXTURE.

- CEILING MOUNTED EXIT LIGHT FIXTURE
- WALL MOUNTED EXIT LIGHT FIXTURE
- WALL MOUNTED EXIT/EGRESS COMBINATION LIGHT FIXTURE
- CEILING MOUNTED EXIT/EGRESS COMBINATION LIGHT FIXTURE

S# — TOGGLE LIGHT SWITCH. "#" INDICATES SWITCH TYPES AS FOLLOWS:

- BLANK: SINGLE POLE SWITCH
- 3: THREE-WAY SWITCH
- 4: FOUR-WAY SWITCH
- D: DIMMING SWITCH AS NOTED ON PLAN
- K: KEY OPERATED TOGGLE SWITCH
- T: TIMER SWITCH AS NOTED ON PLAN
- M: MOMENTARY SWITCH

S LV# — LOW-VOLTAGE LIGHT SWITCH. "#" INDICATES SWITCH TYPE - SEE LIGHTING CONTROL DEVICE SCHEDULE.

OCCUPANCY SENSOR - "#" INDICATES SWITCH TYPE - SEE LIGHTING CONTROL DEVICE SCHEDULE.

- S Of — WALL-MOUNTED SWITCH-BOX TYPE OCCUPANCY SENSOR
- Of — CEILING-MOUNTED OCCUPANCY SENSOR
- Of — WALL-MOUNTED AIMABLE OCCUPANCY SENSOR

POWER

R XX — RECEPTACLE (NEMA 5-20 AS SHOWN). INSTALL AT 18" UNLESS NOTED OTHERWISE. "#" INDICATES CIRCUIT NUMBER WITHIN NOTED PANEL - SEE POWER PLANS FOR BRANCH PANEL ASSIGNMENT. "XX" INDICATES SPECIAL INSTALLATION INSTRUCTION AS FOLLOWS:
AC: INSTALL ABOVE COUNTER (+4" BACKSPLASH TO CENTER OF RECEPTACLE).
+##": INSTALL RECEPTACLE ## INCHES AFF
WP GFI: GFI RECEPTACLE WITH WEATHERPROOF ENCLOSURE FOR EXTERIOR INSTALLATIONS.

- QUADPLEX RECEPTACLE
- GFCI TYPE DUPLEX RECEPTACLE
- GFCI TYPE QUADPLEX RECEPTACLE
- DUPLEX RECEPTACLE - TAMPER RESISTANT
- DUPLEX RECEPTACLE - TAMPER RESISTANT - GFI
- CLG — CEILING MOUNTED DUPLEX RECEPTACLE
- SPECIAL OUTLET - 2P-30A UNLESS OTHERWISE NOTED
- MULTI-SERVICE FLOORBOX - SEE FLOORBOX SCHEDULE
- FLOOR MOUNTED DUPLEX OUTLET - SEE FLOORBOX SCHEDULE
- PUSH BUTTON
- # — EQUIPMENT CONNECTION. "#" INDICATES LINE ITEM ON MOTOR STARTER & DISCONNECT SWITCH SCHEDULE - SEE SCHEDULE FOR ALL WIRING REQUIREMENTS.
- DISCONNECT SWITCH
- COMBINATION DISCONNECT & MOTOR STARTER WITH OVERLOAD AND RELAY
- JUNCTION BOX OR CIRCUIT & EQUIPMENT CONNECTION AS NOTED ON PLAAN.
- T — CONTROL TRANSFORMER
- R — CONTROL RELAY
- P-1 — ELECTRICAL PANELBOARD. "P-1" INDICATES PANEL NAME.

- CONCEALED CONDUIT IN WALL OR ABOVE CEILING
- CONDUIT HOMERUN TO PANELBOARD
  NEUTRAL WIRE
  PHASE WIRE

MISC.

- CONTROL PANEL AS NOTED ON PLAN
- 2" CONDUIT SLEEVE THROUGH WALL
- J — WALL MOUNTED J-HOOK - SEE DETAIL -/---
- J — J-HOOK MOUNTED FROM STRUCTURE ABOVE - SEE DETAIL -/---
- T — THERMOSTAT ROUGH-IN
- CONTROL PANEL AS NOTED ON PLANS
- EB — EMERGENCY/PANIC PUSH BUTTON - PROVIDE AUTO 911 DIALER IN NETWORK RACK

FIRE ALARM

- ADDRESSABLE CEILING MOUNTED SMOKE DETECTOR
- ADDRESSABLE CEILING MOUNTED HEAT DETECTOR
- ADDRESSABLE CEILING MOUNTED CARBON MONOXIDE DETECTOR
- ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR
- SD — REMOTE TEST SWITCH/ANNUNCIATOR BUTTON FOR DUCT SMOKE DETECTOR
- D — ADDRESSABLE WALL MOUNTED HEAT DETECTOR
- F — ADDRESSABLE MANUAL PULL STATION
- K — KNOX BOX (BY OTHERS) WITH FIRE ALARM MONITOR MODULE

NOTIFICATION DEVICE

- F — WALL MOUNTED FLASHING STROBE
- F — CEILING MOUNTED FLASHING STROBE
- WALL MOUNTED SPEAKER & FLASHING STROBE
- CEILING MOUNTED SPEAKER & FLASHING STROBE
- ADDRESSABLE FIRE ALARM MONITOR/CONTROL MODULE
- MAGNETIC DOOR HOLD OPEN DEVICE
- FACP — ADDRESSABLE FIRE ALARM CONTROL PANEL
- FAAP — ADDRESSABLE FIRE ALARM ANNUNCIATION PANEL
- NAC — NOTIFICATION DEVICE EXTENDER PANEL
- FIRE PROTECTION FLOW SWITCH (SWITCH BY OTHERS)
- FIRE PROTECTION TAMPER SWITCH (SWITCH BY OTHERS)

DOOR ACCESS

CONTRACTOR TO FURNISH AND INSTALL COMPLETE DOOR ACCESS CONTROL SYSTEM. PROVIDE ALL WIRING AND CONNECTIONS PER ACCESS CONTROL SYSTEM REQUIREMENTS. SEE DOOR ACCESS ROUGH-IN DETAIL FOR CONDUIT AND ROUGH-IN REQUIREMENTS FOR ALL DEVICES. SEE DRAWINGS AND SPECIFICATION FOR DEVICE DETAILS.

- INPUT DEVICE - CARD READER, KEY PAD, ETC. INSTALL AT 48" AFF.
- DOOR LOCKING DEVICE (BY OTHERS). MAKE ALL WIRING CONNECTIONS TO DOOR POWER SUPPLY.
- A — DOOR MONITORING CONTACTS (SPST) PROVIDED RECESSED IN DOOR AS SHOWN ON DRAWINGS. "A" INDICATES CONTACTS PART OF DOOR ACCESS CONTROL SYSTEM.
- REQUEST TO EXIT DEVICE INSTALLED ON WALL CENTERED ABOVE DOOR 6" ABOVE TOP OF DOOR FRAME.
- P — DOOR POWER SUPPLY (BY OTHERS). INSTALL ABOVE LAY-IN CEILING. PROVIDE LOW-VOLTAGE CONNECTIONS AS INDICATED ON PLANS. PROVIDE ALL WIRING CONNECTIONS BETWEEN POWER SUPPLY AND DOOR LOCK.
- DACP — DOOR ACCESS CONTROL - DOOR ACCESS CONTROL PANEL
- LEO — MOTORIZED LOW ENERGY DOOR OPERATOR
- PP — PUSHPAD FOR MOTORIZED DOOR OPERATOR (BY OTHERS). PROVIDE ELECTRICAL BOX ROUGH-IN AT 48" AFF WITH 1" CONDUIT ROUTED TO DOOR OPERATOR. WIRE SYSTEM PER MANUFACTURER'S INSTRUCTIONS.

VIDEO SURVEILLANCE

CONTRACTOR TO FURNISH AND INSTALL COMPLETE VIDEO SURVEILLANCE SYSTEM. PROVIDE ALL WIRING AND CONNECTIONS PER VIDEO SURVEILLANCE SYSTEM REQUIREMENTS. SEE DRAWINGS AND SPECIFICATION FOR DEVICE DETAILS.

X 90 / AP1-# — SECURITY CAMERA - PoE TYPE - NETWORK WIRING PER SPECIFICATION. "X" INDICATES CAMERA TYPE - SEE CAMERA SCHEDULE. "#" INDICATES PATCH PANEL AND PORT.

NETWORK & I.T.

- NETWORK OUTLET - 18" A.F.F.
- W — WALL PHONE OUTLET - 54" A.F.F.
- X / AP1-# — NETWORK OUTLET WIRING NOMENCLATURE
  "X" INDICATES NUMBER OF DROPS IN OUTLET (A = 1, B = 2, ETC.)
  "#" INDICATES SPECIFIC PATCH PANEL AND PORT
  (TYP. OF ALL IP DEVICES)
- W — WIRELESS ACCESS POINT- PROVIDE TWO CAT6 CABLES TO EACH WAP LOCATION. WAP FURNISHED BY OWNER

LIGHT FIXTURE SCHEDULE

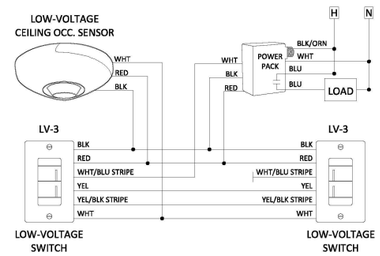
TAG	TAG NO.	MANUFACTURER	DESCRIPTION	LIGHT OUTPUT		INSTALLATION		FINISH	REMARKS
				COLOR	DELIVERED LUMENS	MOUNTING	LOCATION		
L	1A	LITHONIA CPX	2X4 RECESSED FLAT PANEL TROFFER	4000 K	4000 LM	RECESSED	CEILING	BAKED WHITE ENAMEL	EXTRUDED ALUMINUM FRAME WITH SATIN WHITE LENS, 1.7" NOMININAL FIXTURE DEPTH, MULTI-VOLT OPERATION. ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 4000K LEDS, FURNISH FIXTURE WITH 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM, SUITABLE FOR LAY-IN CEILING INSTALLATION.
L	1B	LITHONIA CPX	2X4 RECESSED FLAT PANEL TROFFER	4000 K	5000 LM	RECESSED	CEILING	BAKED WHITE ENAMEL	EXTRUDED ALUMINUM FRAME WITH SATIN WHITE LENS, 1.7" NOMININAL FIXTURE DEPTH, MULTI-VOLT OPERATION. ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 4000K LEDS, FURNISH FIXTURE WITH 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM, SUITABLE FOR LAY-IN CEILING INSTALLATION.
L	2	LITHONIA CPXL SERIES	2X2 RECESSED FLAT PANEL TROFFER	4000 K	5000 LM	RECESSED	CEILING	BAKED WHITE ENAMEL	EXTRUDED ALUMINUM FRAME WITH SATIN WHITE LENS, 1.7" NOMININAL FIXTURE DEPTH, MULTI-VOLT OPERATION. ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 4000K LEDS, FURNISH FIXTURE WITH 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM, SUITABLE FOR LAY-IN CEILING INSTALLAT
L	3	LITHONIA LHQM SERIES, DUAL-LITE LT SERIES, SURELITES LPXC25 SERIES, LIGHTALARMS GRANDE SERIES	LED COMBO EM/EXIT LIGHT FIXTURE			SURFACE	CEILING	WHITE THERMOPLASTIC HOUSING	WHITE HIGH IMPACT POLYCARBONATE HOUSING, FULLY ADJUSTABLE LED LAMP HEADS, 3/4" STROKE X 6" HIGH RED LETTERS READING "EXIT" ON STENCIL FACE, UNIVERSAL MOUNT, FIELD CONFIGURED AS SINGLE FACE OR DOUBLE FACE, DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, AC ON LIGHT, TEST SWITCH, MULTI-VOLT OPERATION, 6V NICKLE CADMIUM BETTERY, OVERLOAD AND SHORT CIRCUIT PROTECTION.
L	4	MARK SL2L SERIES, NEO-RAY LIGHTING DEFINE 2 SERIES, LEDALITE TRUGROOVE SERIES, LITECONTROL MOD 2L SERIES	2 INCH RECESSED DIRECT LINEAR SLOT	4000 K	800 LM/FT	RECESSED	CEILING	BAKED WHITE ENAMEL	CONTINUOUS LENGTH SLOT FIXTURE, COLD-ROLLED STEEL HOUSING AND EXTRUDED ALUMINUM CEILING TRIM, DIRECT DISTRIBUTION, FLUSH SATIN ACRYLIC LENS, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM, SUITABLE FOR GRID CEILING INSTALLATION, CONTRACTOR RESPONSIBLE FOR ORDERING REQUIRED CONTINUOUS LENGTH AS SHOWN ON PLAN..
L	5A	GOTHAM EVO SERIES, PRESCOLITE LF6 SERIES, PORTFOLIO LD6B SERIES, LIGHTOLIER CALCULITE SERIES	6" APERTURE RECESSED ROUND LED DOWNLIGHT	3500 K	1000 LM	RECESSED	CEILING	SEMI-SPECULAR CLEAR REFLECTOR	MEDIUM LIGHT DISTRIBUTION, GALVANIZED STEEL MOUNTING FRAME, INTEGRAL JUNCTION BOX, HIGH REFLECTANCE ALUMINUM REFLECTOR WITH SEMI-SPECULAR FINISH, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM.
L	5B	GOTHAM EVO SERIES, PRESCOLITE LF6 SERIES, PORTFOLIO LD6B SERIES, LIGHTOLIER CALCULITE SERIES	6" APERTURE RECESSED ROUND LED DOWNLIGHT	4000 K	2000 LM	RECESSED	CEILING	SEMI-SPECULAR CLEAR REFLECTOR	MEDIUM LIGHT DISTRIBUTION, GALVANIZED STEEL MOUNTING FRAME, INTEGRAL JUNCTION BOX, HIGH REFLECTANCE ALUMINUM REFLECTOR WITH SEMI-SPECULAR FINISH, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM.
L	6A	GOTHAM EVO SERIES, PRESCOLITE LF4 SERIES, PORTFOLIO LD4B SERIES, LIGHTOLIER CALCULITE SERIES	4" APERTURE RECESSED ROUND LED DOWNLIGHT	4000 K	750 LM	RECESSED	CEILING	SEMI-SPECULAR CLEAR REFLECTOR	MEDIUM LIGHT DISTRIBUTION, GALVANIZED STEEL MOUNTING FRAME, INTEGRAL JUNCTION BOX, HIGH REFLECTANCE ALUMINUM REFLECTOR WITH SEMI-SPECULAR FINISH, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM.
L	7	COLE M1 SERIES	24 INCH ABOVE-MIRROR FIXTURE	4000 K	1985 LM	SURFACE	WALL	BAKED WHITE ENAMEL	24 INCH ABOVE-MIRROR VANITY FIXTURE, EXTRUDED ALUMINUM HOUSING, DIRECT DISTRIBUTION, WHITE ACRYLIC LENS, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 10%, 80 CRI MINIMUM.
L	8	LITHONIA CLX SERIES, COLUMBIA LCL SERIES, METALUX SNLED SERIES, DAY-BRITE FLUXSTREAM SERIES	4 FT. LINEAR LED STRIP	4000 K	4000 LM	SUSPENDED	CEILING	WHITE POLYESTER	LINEAR LED STRIPLIGHT, COLD ROLLED STEEL CHANNEL AND COVER WITH MOLDED PLASTIC HOUSING AND ENDCAPS AND ROUND DIFFUSE ACRYLIC LENS, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 10%, 80 CRI MINIMUM.
L	9	MARK SPR LED SERIES, FOCAL POINT SEEM 2 SERIES, LEDALITE TRUGROOVE SERIES, LITECONTROL MOD 2L SERIES	2 INCH REGRESSED WALL WASHER	4000 K	375 MIN LM/FT	RECESSED	CEILING	BAKED WHITE ENAMEL	CONTINUOUS LENGTH WALL WASH PERIMETER FIXTURE, EXTRUDED ALUNIMUM HOUSING , REGRESSED GRAZER DISTRIBUTION, 2" FLUSH SATIN ACRYLIC LENS REGRESSED 4" ABOVE CEILING, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 1%, 80 CRI MINIMUM, SUITABLE FOR GRID CEILING INSTALLATION, CONTRACTOR RESPONSIBLE FOR ORDERING REQUIRED CONTINUOUS LENGTH AS SHOWN ON PLAN, SEE ARCHITECTRUAL DETAILS FOR EXACT MOUNTING.
L	10A	LITHONIA ELM2L SERIES, DUAL-LITE EV SERIES, SURELITES SEL2S SERIES	WALL MOUNTED LED EMERGENCY LIGHT FIXTURE			SURFACE	WALL	WHITE THERMOPLASTIC HOUSING	WHITE HIGH IMPACT POLYCARBONATE HOUSING, MULTI-VOLT OPERATION, 6V NICKLE CADMIUM BETTERY, FULLY ADJUSTABLE LED LAMP HEADS, AC ON LIGHT, TEST SWITCH, OVERLOAD AND SHORT CIRCUIT PROTECTION.
L	10B	SAME AS FIXTURE L10A EXCEPT CEILING MOUNTED	CEILING MOUNTED LED EMERGENCY			SURFACE	CEILING		
L	11	ECOSENSE SLIM COVE, SSL COVELINE, LUMENPULSE LUMENCOVE	4' COVE LED FIXTURE	3500 K	800 LM/FT	SURFACE	COVE	BAKED WHITE ENAMEL	4 FT. PURE ALUMINUM BODY, POLYCARBONATE MOUNTING BRACKET AND LENS, WHITE FINISH, MULTIVOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 10%, 80 CRI MINIMUM. FIXTURE SHALL BE FURNISHED WITH REQUIRED END-TO-END CONNECTOR CORDS TO ROW MOUNT AS SHOWN ON DRAWINGS AND SHALL BE SUITABLE FOR HARD-WIRED CONNECTION TO WALL SWITCH.
L	12	LITHONIA FEM SERIES, METALUX 2VT2 SERIES, COLUMBIA LXEM2 SERIES, DAY-BRITE VAPORLUME SERIES	2 FT. GASKETED & ENCLOSED LED INDUSTRIAL	3500 K	3000 LM	SUSPENDED	CEILING	WHITE FIBERGLASS HOUSING	2 FT. INDUSTRIAL FIXTURE WITH FIBERGLASS HOUSING, GASKETED & ENCLOSED ACRYLIC LINEAR RIBBED FROSTED LENS, MEDIUM LIGHT DISTRIBUTION, MULTI-VOLT OPERATION, ELECTRONIC, HIGH POWER FACTOR, LED DRIVER, 0-10V DIMMING DOWN TO 10%, 80 CRI MINIMUM, SUITABLE FOR SURFACE MOUNTED INSTALLATION.

EXISTING LIGHT FIXTURE SCHEDULE

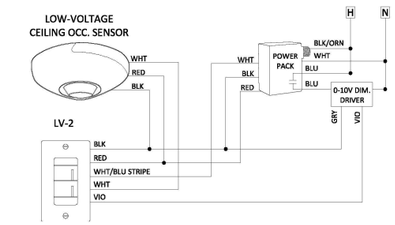
TAG	TAG NO.	MANUFACTURER	DESCRIPTION	LIGHT OUTPUT		INSTALLATION		FINISH	REMARKS
				COLOR	DELIVERED LUMENS	MOUNTING	LOCATION		
RL	1		1x4 SURFACE PRISMATIC TROFFER			SURFACE	CEILING	BAKED WHITE ENAMEL	EXISTING LIGHT FIXTURE TO REMAIN, CONTRACTOR TO OBTAIN LED BYPASS TYPE RETROFIT TUBES FROM OWNER AND INSTALL IN EXISTING FIXTURE
RL	2		1x4 SURFACE PRISMATIC TROFFER			SURFACE	CEILING	BAKED WHITE ENAMEL	EXISTING LIGHT FIXTURE TO BE RELOCATED, CONTRACTOR TO OBTAIN LED BYPASS TYPE RETROFIT TUBES FROM OWNER AND INSTALL IN EXISTING FIXTURE, PROVIDE CHAIN HANGER KIT AND REINSTALL IN NEW LOCATION

LIGHTING CONTROL DEVICE SCHEDULE

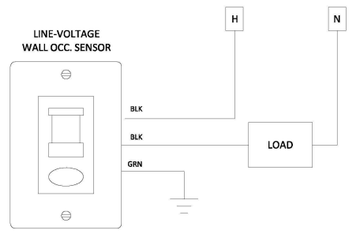
TAG	TAG NO.	INSTALLATION		REMARKS
		MOUNTING	LOCATION	
LV	1	RECESSED	WALL	LOW-VOLTAGE WALL STATION, CONFIGURED FOR MANUAL-ON OPERATION IN CONJUNCTION WITH LOCAL OCCUPANCY SENSOR SYSTEM.
LV	2	RECESSED	WALL	LOW-VOLTAGE WALL STATION, 0-10V DIMMING, CONFIGURED FOR MANUAL-ON OPERATION IN CONJUNCTION WITH LOCAL OCCUPANCY SENSOR SYSTEM.
LV	3	RECESSED	WALL	LOW-VOLTAGE WALL STATION, THREE WAY, CONFIGURED FOR MANUAL-ON OPERATION IN CONJUNCTION WITH LOCAL OCCUPANCY SENSOR SYSTEM.
LV	4	RECESSED	WALL	LOW-VOLTAGE WALL STATION, THREE WAY & 0-10V DIMMING, CONFIGURED FOR MANUAL-ON OPERATION IN CONJUNCTION WITH LOCAL OCCUPANCY SENSOR SYSTEM.
O	2	RECESSED	WALL	WALL-BOX MOUNTED LINE VOLTAGE OCCUPANCY SENSOR, INTEGRAL RELAY, CONFIGURE FOR MANUAL-ON OPERATION, PUSH BUTTON CONTROL OVERIDE.
O	4	RECESSED	WALL	WALL-BOX MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING, INTEGRAL RELAY, CONFIGURE FOR MANUAL-ON OPERATION, PUSH BUTTON CONTROL OVERIDE.
O	5	SURFACE	CEILING	LOW VOLTAGE STANDARD RANGE CEILING MOUNT OCCUPANCY SENSOR, 360 DEGREE VIEW RANGE, 500 SQ. FT. COVERAGE.



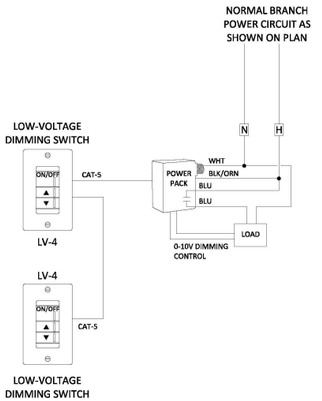
2 E001 OCCUPANCY SENSOR DIAGRAM (MANUAL ON/THREE WAY)
NO SCALE



3 E001 OCCUPANCY SENSOR DIAGRAM (MANUAL ON/DIMMING)
NO SCALE



4 E001 OCCUPANCY SENSOR - WALL - LINE VOLTAGE
NO SCALE



NOTE: CONTROL SCHEME SHOWN USING n-LIGHT ELECTRONIC LOW VOLTAGE DIMMING CONTROLS BY ACUITY CONTROLS, ACTUAL LOW VOLTAGE CONTROLS MAY VARY

5 E001 LIGHTING COTROL DIAGRAM 3-WAY DIMMING
NO SCALE

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date — Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

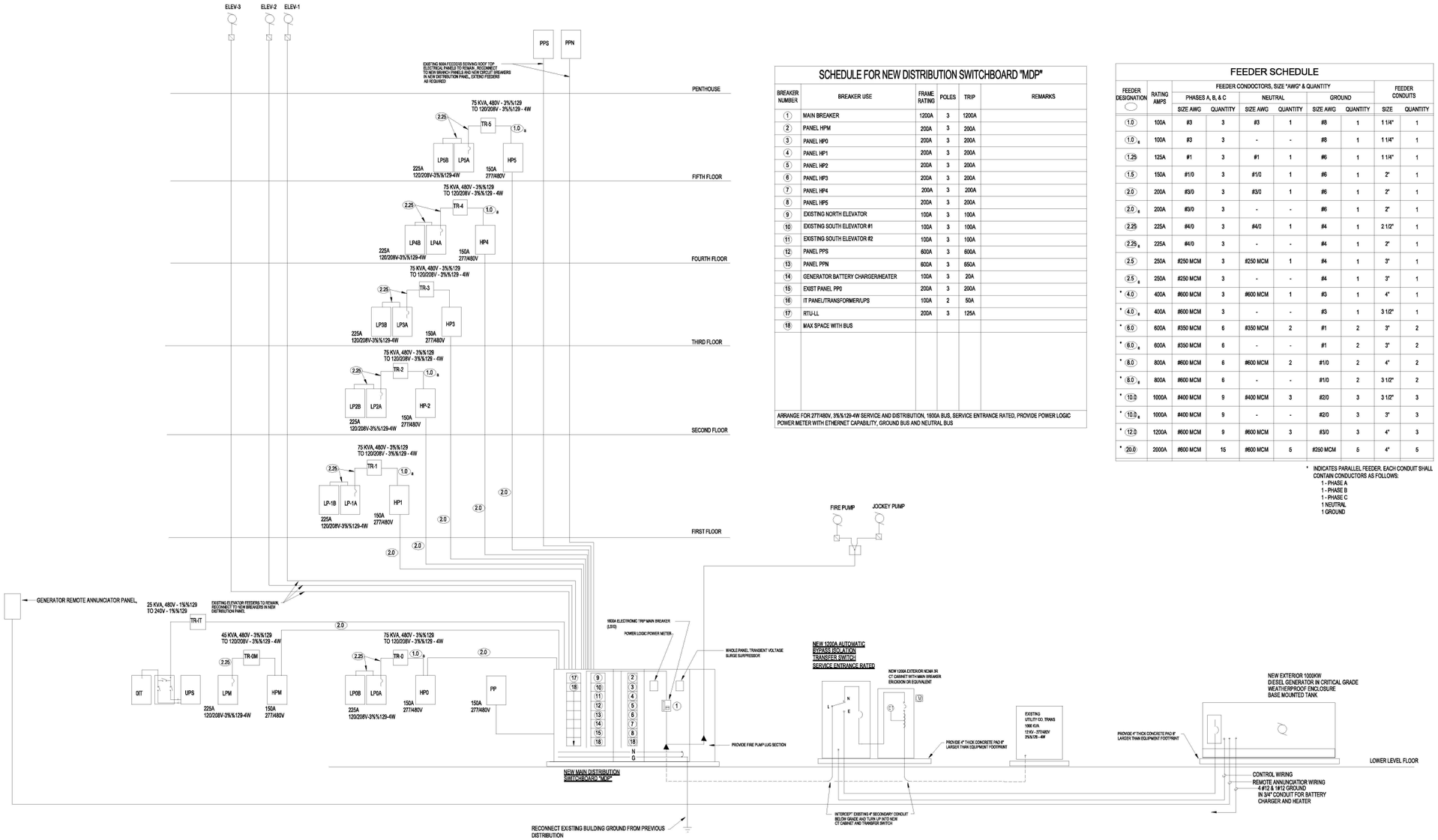
102 E. Main St., Urbana, IL 61801

Drawing Title:

ELECTRICAL SCHEDULES AND DETAILS

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. E001



ONE LINE DIAGRAM FOR SERVICE AND DISTRIBUTION

NO SCALE

SCHEDULE FOR NEW DISTRIBUTION SWITCHBOARD "MDP"

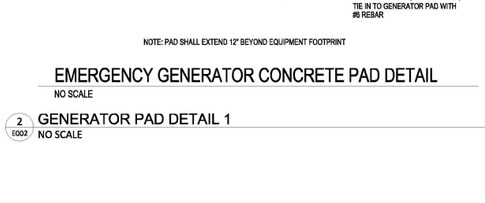
BREAKER NUMBER	BREAKER USE	FRAME RATING	POLES	TRIP	REMARKS
1	MAIN BREAKER	1200A	3	1200A	
2	PANEL HPM	200A	3	200A	
3	PANEL HP0	200A	3	200A	
4	PANEL HP1	200A	3	200A	
5	PANEL HP2	200A	3	200A	
6	PANEL HP3	200A	3	200A	
7	PANEL HP4	200A	3	200A	
8	PANEL HP5	200A	3	200A	
9	EXISTING NORTH ELEVATOR	100A	3	100A	
10	EXISTING SOUTH ELEVATOR #1	100A	3	100A	
11	EXISTING SOUTH ELEVATOR #2	100A	3	100A	
12	PANEL PPS	600A	3	600A	
13	PANEL PPN	600A	3	650A	
14	GENERATOR BATTERY CHARGER/HEATER	100A	3	20A	
15	EXIST PANEL PP0	200A	3	200A	
16	IT PANEL/TRANSFORMER/UPS	100A	2	50A	
17	RTU-LL	200A	3	125A	
18	MAX SPACE WITH BUS				

ARRANGE FOR 277/480V, 3%%129-4W SERVICE AND DISTRIBUTION, 1600A BUS, SERVICE ENTRANCE RATED, PROVIDE POWER LOGIC POWER METER WITH ETHERNET CAPABILITY, GROUND BUS AND NEUTRAL BUS

FEEDER SCHEDULE

FEEDER DESIGNATION	RATING AMPS	FEEDER CONDUCTORS, SIZE "AWG" & QUANTITY						FEEDER CONDUITS	
		PHASES A, B, & C		NEUTRAL		GROUND			
		SIZE AWG	QUANTITY	SIZE AWG	QUANTITY	SIZE AWG	QUANTITY	SIZE	QUANTITY
1.0	100A	#3	3	#3	1	#8	1	1 1/4"	1
1.0 a	100A	#3	3	-	-	#8	1	1 1/4"	1
1.25	125A	#1	3	#1	1	#6	1	1 1/4"	1
1.5	150A	#1/0	3	#1/0	1	#6	1	2"	1
2.0	200A	#3/0	3	#3/0	1	#6	1	2"	1
2.0 a	200A	#3/0	3	-	-	#6	1	2"	1
2.25	225A	#4/0	3	#4/0	1	#4	1	2 1/2"	1
2.25 a	225A	#4/0	3	-	-	#4	1	2"	1
2.5	250A	#250 MCM	3	#250 MCM	1	#4	1	3"	1
2.5 a	250A	#250 MCM	3	-	-	#4	1	3"	1
* 4.0	400A	#600 MCM	3	#600 MCM	1	#3	1	4"	1
* 4.0 a	400A	#600 MCM	3	-	-	#3	1	3 1/2"	1
* 6.0	600A	#350 MCM	6	#350 MCM	2	#1	2	3"	2
* 6.0 a	600A	#350 MCM	6	-	-	#1	2	3"	2
* 8.0	800A	#600 MCM	6	#600 MCM	2	#1/0	2	4"	2
* 8.0 a	800A	#600 MCM	6	-	-	#1/0	2	3 1/2"	2
* 10.0	1000A	#400 MCM	9	#400 MCM	3	#2/0	3	3 1/2"	3
* 10.0 a	1000A	#400 MCM	9	-	-	#2/0	3	3"	3
* 12.0	1200A	#600 MCM	9	#600 MCM	3	#3/0	3	4"	3
* 20.0	2000A	#600 MCM	15	#600 MCM	5	#250 MCM	5	4"	5

* INDICATES PARALLEL FEEDER. EACH CONDUIT SHALL CONTAIN CONDUCTORS AS FOLLOWS:
1 - PHASE A
1 - PHASE B
1 - PHASE C
1 NEUTRAL
1 GROUND



NOTE: PAD SHALL EXTEND 12" BEYOND EQUIPMENT FOOTPRINT

EMERGENCY GENERATOR CONCRETE PAD DETAIL

NO SCALE

2 / E002 GENERATOR PAD DETAIL 1

NO SCALE

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title

ELECTRICAL DISTRIBUTION DIAGRAM

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: E002

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:49:00 PM

BRANCH PANEL: HP0

LOCATION: MECH 009
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1					9180 VA	2114 VA			1	20 A	LIGHTING VBM OPEN WORK AREA 019	2
3	TR-0	100 A	3			13020...	1965 VA		1	20 A	LIGHTING N ELEV LOBBY N010	4
5							9300 VA 1747 VA		1	20 A	LIGHTING MECH 009	6
7					304 VA	304 VA						8
9	EAST LIFT GATE LOWER LEVEL	20 A	3			304 VA	304 VA		3	20 A	NORTH LIFT GATE LOWER LEVEL	10
11							304 VA 304 VA					12
13					609 VA	0 VA		--	1	20 A	SPARE	14
15	FIRST LEVEL PARKING GATES	20 A	3			609 VA	0 VA	--	1	20 A	SPARE	16
17							609 VA 0 VA	--	1	20 A	SPARE	18
19	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	20
21	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	22
23	SPARE	20 A	1	--			0 VA --	--	1	--	SPACE W/ BUS	24
25	SPARE	20 A	1	--	0 VA	--		--	1	--	SPACE W/ BUS	26
27	SPARE	20 A	1	--		0 VA	--	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			12502 VA	16193 VA	12255 VA					
		TOTAL AMPS:			45 A	59 A	44 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	6174 VA	100.00%	6174 VA		
GHR - LIGHTING	4732 VA	125.00%	5915 VA	**TOTAL CONN. LOAD:**	40951 VA
GHR - RECEPTACLE	28980 VA	67.25%	19490 VA	**TOTAL EST. DEMAND:**	32641 VA
Other	44 VA	100.00%	44 VA	**TOTAL CONN. CURRENT:**	49 A
Lighting	1054 VA	100.00%	1054 VA	**TOTAL EST. DEMAND CURRENT:**	39 A

NOTES:

BRANCH PANEL: HP1

LOCATION: ELEC CLOSET N101
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHTING EAST	20 A	1			2206 VA						2
3	GHR - LIGHTING BREAK AREA 112	20 A	1				1688 VA					4
5	GHR - LIGHTING LOBBY N109	20 A	1				1716 VA					6
7	GHR - LIGHTING N ELEV LOBBY N100	20 A	1		2090 VA	0 VA		--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0 VA --	--	1	--	SPACE W/ BUS	18
19	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			4295 VA	1688 VA	1716 VA					
		TOTAL AMPS:			16 A	6 A	6 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - LIGHTING	7377 VA	125.00%	9221 VA		
Lighting	322 VA	100.00%	322 VA	**TOTAL CONN. LOAD:**	7699 VA
				TOTAL EST. DEMAND:	9543 VA
				TOTAL CONN. CURRENT:	9 A
				TOTAL EST. DEMAND CURRENT:	11 A

NOTES:

BRANCH PANEL: HP2

LOCATION: ELEC CLOSET N201
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHTING EAST SIDE	20 A	1		2278 VA	13500...						2
3	LIGHTING CORRIDOR C202	20 A	1				1660 VA 13140...					4
5	LIGHTING BREAK 214	20 A	1				1445 VA 13320...					6
7	LIGHTING N ELEV LOBBY N200	20 A	1		1421 VA	0 VA		--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	18
19	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			17183 VA	14792 VA	14758 VA					
		TOTAL AMPS:			62 A	53 A	53 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	720 VA	100.00%	720 VA		
GHR - LIGHTING	6242 VA	125.00%	7802 VA	**TOTAL CONN. LOAD:**	46732 VA
GHR - RECEPTACLE	38880 VA	62.86%	24440 VA	**TOTAL EST. DEMAND:**	33850 VA
Lighting	562 VA	100.00%	562 VA	**TOTAL CONN. CURRENT:**	56 A
Receptacle	360 VA	100.00%	360 VA	**TOTAL EST. DEMAND CURRENT:**	41 A

NOTES:

BRANCH PANEL: HP3

LOCATION: ELEC CLOSET N301
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHTING EAST SIDE	20 A	1		2027 VA	15044...						2
3	LIGHTING CORRIDOR C302	20 A	1				1722 VA 12240...		3	100 A	TR-3	4
5	LIGHTING BREAK AREA 310	20 A	1				1749 VA 13184...					6
7	LIGHTING ELEVATOR LOBBIES	20 A	1		727 VA	0 VA		--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	18
19	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			17785 VA	13953 VA	14925 VA					
		TOTAL AMPS:			65 A	50 A	54 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	600 VA	100.00%	600 VA		
GHR - LIGHTING	5813 VA	125.00%	7266 VA	**TOTAL CONN. LOAD:**	46664 VA
GHR - RECEPTACLE	35460 VA	64.10%	22730 VA	**TOTAL EST. DEMAND:**	35383 VA
Lighting	412 VA	100.00%	412 VA	**TOTAL CONN. CURRENT:**	56 A
Receptacle	4408 VA	100.00%	4408 VA	**TOTAL EST. DEMAND CURRENT:**	43 A

NOTES:

BRANCH PANEL: HP4

LOCATION: ELEC CLOSET N401
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHTING EAST SIDE	20 A	1		1920 VA	18540...						2
3	LIGHTING CORRIDOR C403	20 A	1				2169 VA 13500...		3	100 A	TR-4	4
5	LIGHTING BREAK AREA 410	20 A	1				1892 VA 16020...					6
7	LIGHTING ELEVATOR LOBBIES	20 A	1		914 VA	0 VA		--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0 VA --	--	1	--	SPACE W/ BUS	18
19	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			21361 VA	15659 VA	17903 VA					
		TOTAL AMPS:			78 A	57 A	66 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	1080 VA	100.00%	1080 VA		
GHR - LIGHTING	6393 VA	125.00%	7991 VA	**TOTAL CONN. LOAD:**	54922 VA
GHR - RECEPTACLE	46260 VA	60.81%	28130 VA	**TOTAL EST. DEMAND:**	38387 VA
Lighting	502 VA	100.00%	502 VA	**TOTAL CONN. CURRENT:**	66 A
Receptacle	720 VA	100.00%	720 VA	**TOTAL EST. DEMAND CURRENT:**	46 A

NOTES:

BRANCH PANEL: HP5

LOCATION: ELEC N501
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHTING HALL 551	20 A	1		1857 VA	1392 VA			1	20 A	LIGHTING GAST OFFICES	2
3							1800 VA 2377 VA		1	20 A	LIGHTING BREAK AREA 515	4
5	TR-5	100 A	3				0 VA 427 VA		1	20 A	LIGHTING S ELEV LOBBYS	6
7					0 VA	0 VA		--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0 VA 0 VA	--	1	20 A	SPARE	18
19	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			-- --	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			3249 VA	4171 VA	427 VA					
		TOTAL AMPS:			13 A	17 A	2 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - LIGHTING	5611 VA	125.00%	7014 VA		
GHR - RECEPTACLE	1800 VA	100.00%	1800 VA	**TOTAL CONN. LOAD:**	7845 VA
Lighting	442 VA	100.00%	442 VA	**TOTAL EST. DEMAND:**	9248 VA
				TOTAL CONN. CURRENT:	9 A
				TOTAL EST. DEMAND CURRENT:	11 A

NOTES:

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date — Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title:

PANEL SCHEDULES

Expiration Date of Seal: 04-16-2023

BIL Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: E003

BRANCH PANEL: LP0A

LOCATION: MECH 009
SUPPLY FROM: TR-0
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES: PROVIDE FEED THRU LUGS

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	RECEPTACLE SECURE EVIDENCE STORAGE...	20 A	1		180 VA	720 VA			1	20 A	RECEPTACLE SECURE EVIDENCE STORAGE...	2
3	RECEPTACLE HOMICIDE / SEXUAL ASSAUL...	20 A	1			900 VA	720 VA		1	20 A	RECEPTACLE ARSENAL 005	4
5	RECEPTACLE EQUIPMENT STORAGE 003	20 A	1				540 VA	900 VA	1	20 A	RECEPTACLE OFFICE 010	6
7	RECEPTACLE SECURE FIREARM STORAGE...	20 A	1		1080 VA	720 VA			1	20 A	RECEPTACLE EVIDENCE CUSTODIAN 015	8
9	RECEPTACLE SECURE EVIDENCE...	20 A	1			720 VA	1440 VA		1	20 A	RECEPTACLE DEAD STORAGE 002	10
11	RECEPTACLE SOCIAL WORKER 001	20 A	1				720 VA	1080 VA	1	20 A	RECEPTACLE N ELEV LOBBY N010	12
13	RECEPTACLE N ELEV LOBBY N010	20 A	1		540 VA	180 VA			1	20 A	RECEPTACLE VBM OPEN WORK AREA 019	14
15	RECEPTACLE VBM OPEN WORK AREA 019	20 A	1			1260 VA	720 VA		1	20 A	RECEPTACLE VBM OPEN WORK AREA 019	16
17	RECEPTACLE VBM OPEN WORK AREA 019	20 A	1				540 VA	540 VA	1	20 A	RECEPTACLE VBM OPEN WORK AREA 019	18
19	RECEPTACLE VBM OPEN WORK AREA 019	20 A	1		720 VA	540 VA			1	20 A	RECEPTACLE CLEAN AGENT STORAGE 051	20
21	RECEPTACLE INFORMATION 021	20 A	1			720 VA	540 VA		1	20 A	RECEPTACLE SQUAD ROOM 023	22
23	RECEPTACLE SQUAD ROOM 023	20 A	1				720 VA	1260 VA	1	20 A	RECEPTACLE SQUAD ROOM 023	24
25	RECEPTACLE TRAINING ROOM 028	20 A	1		540 VA	360 VA			1	20 A	RECEPTACLE BREAK AREA 027	26
27	RECEPTACLE VBM CONFERENCE 018	20 A	1			1440 VA	540 VA		1	20 A	RECEPTACLE VBM OPEN WORK AREA 019	28
29	RECEPTACLE VBM OPEN WORK AREA 019	20 A	1				540 VA					30
31	RECEPTACLE VBM OPEN WORK AREA 019	20 A	1		540 VA							32
33	RECEPTACLE SGT OFFICE 024	20 A	1			540 VA	720 VA		1	20 A	RECEPTACLE SGT OFFICE 024	34
35	RECEPTACLE BREAK AREA 027	20 A	1				720 VA	1080 VA	1	20 A	RECEPTACLE TRAINING ROOM 028	36
37	NORTH GATE VIDEO INTERCOM	20 A	1		120 VA	600 VA			1	20 A	SLIDE GATE LOWER PARKING DECK	38
39	LOWER LEVEL DOOR CONTROLLER/POWE...	20 A	1			240 VA	0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1	--			0 VA	0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	--	0 VA	0 VA			1	20 A	SPARE	44
45	SPARE	20 A	1	--		0 VA	0 VA		1	20 A	SPARE	46
47	SPARE	20 A	1	--			0 VA	0 VA	1	20 A	SPARE	48
49	SPACE W/ BUS	--	1	--	--	--			1	--	SPACE W/ BUS	50
51	SPACE W/ BUS	--	1	--		--	--		1	--	SPACE W/ BUS	52
53	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	54
	TOTAL LAOD:				9180 VA	13020 VA	9300 VA					
	TOTAL AMPS:				77 A	109 A	78 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	2520 VA	100.00%	2520 VA		
GHR - RECEPTACLE	28980 VA	67.25%	19490 VA	**TOTAL CONN. LOAD:**	31500 VA
				TOTAL EST. DEMAND:	22010 VA
				TOTAL CONN. CURRENT:	87 A
				TOTAL EST. DEMAND CURRENT:	61 A

NOTES:

BRANCH PANEL: LP0B

LOCATION: MECH 009
SUPPLY FROM: LP0A
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MLO
MAINS RATING: 225 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - RECEPTACLE VBM OPEN WORK AR...	20 A	1		180 VA	360 VA			1	20 A	GHR - RECEPTACLE VBM OPEN WORK AR...	2
3	GHR - RECEPTACLE VBM OPEN WORK AR...	20 A	1			180 VA	360 VA		1	20 A	GHR - RECEPTACLE VBM OPEN WORK AR...	4
5	GHR - RECEPTACLE INFORMATION 021	20 A	1				180 VA	480 VA	1	20 A	GHR - EQUIPMENT N ELEV LOBBY N010	6
7	GHR - EQUIPMENT S ELEV LOBBY S010	20 A	1		1080 VA	720 VA			1	20 A	GHR - RECEPTACLE JAN S011	8
9	GHR - RECEPTACLE MECH 009	20 A	1			900 VA	1080 VA		1	20 A	GHR - RECEPTACLE MECH 009	10
11												12
13												14
15							--		--	1 --	SPACE W/ BUS	16
17	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	18
19	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	42
	TOTAL LAOD:				2340 VA	2520 VA	660 VA					
	TOTAL AMPS:				22 A	23 A	6 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	1560 VA	100.00%	1560 VA		
GHR - RECEPTACLE	3960 VA	100.00%	3960 VA	**TOTAL CONN. LOAD:**	5520 VA
				TOTAL EST. DEMAND:	5520 VA
				TOTAL CONN. CURRENT:	15 A
				TOTAL EST. DEMAND CURRENT:	15 A

NOTES:

BRANCH PANEL: LP1A

LOCATION: ELEC CLOSET N101
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - RECEPTACLE BREAK AREA 112	20 A	1		720 VA	1080 VA			1	20 A	GHR - RECEPTACLE BREAK AREA 112	2
3	GHR - RECEPTACLE SPACE 454	20 A	1			4	540 VA	1664 VA				4
5	GHR - RECEPTACLE SPACE 454	20 A	1					720 VA	1664 VA	2	20 A	RECEPTACLE COPY AREA/ SUPPLIES 111	6
7	GHR - RECEPTACLE OPERATIONS 110	20 A	1		900 VA	720 VA				1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	8
9	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1			720 VA	540 VA			1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	10
11	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1				540 VA	540 VA		1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	12
13	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1		540 VA	540 VA				1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	14
15	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1			540 VA	540 VA			1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	16
17	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1				540 VA	540 VA		1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	18
19	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1		540 VA	720 VA				1	20 A	GHR - RECEPTACLE CLERK WORKSTATION...	20
21	GHR - RECEPTACLE CLERK WORKSTATION...	20 A	1			540 VA	900 VA			1	20 A	GHR - RECEPTACLE CLERK DIRECTOR 105	22
23	GHR - RECEPTACLE WELL N104	20 A	1					1620 VA	1800 VA	1	20 A	GHR - RECEPTACLE VITAL RECORDS...	24
25	GHR - RECEPTACLE RECORDER...	20 A	1		900 VA	540 VA				1	20 A	GHR - RECEPTACLE RECORDER...	26
27	GHR - RECEPTACLE RECORDER...	20 A	1			720 VA	540 VA			1	20 A	GHR - RECEPTACLE RECORDER...	28
29	GHR - RECEPTACLE RECORDER...	20 A	1				540 VA	900 VA		1	20 A	GHR - RECEPTACLE FIRST FLOOR MAIN...	30
31	GHR - RECEPTACLE FIRST FLOOR MAIN...	20 A	1		900 VA	900 VA				1	20 A	GHR - RECEPTACLE RECORDER...	32
33	GHR - RECEPTACLE FIRST FLOOR MAIN...	20 A	1			180 VA	540 VA			1	20 A	GHR - RECEPTACLE FIRST FLOOR MAIN...	34
35	GHR - RECEPTACLE CHIEF DEPUTY 104	20 A	1				900 VA	1080 VA		1	20 A	GHR - RECEPTACLE N ELEV LOBBY N100	36
37	GHR - RECEPTACLE RECORDER...	20 A	1		1260 VA	900 VA				1	20 A	GHR - RECEPTACLE VITAL RECORDS...	38
39	GHR - RECEPTACLE RECORDER VAULT 115	20 A	1			1440 VA	1260 VA			1	20 A	GHR - RECEPTACLE PREFUNCTION 101	40
41	GHR - RECEPTACLE CLERK IT OFFICE 118	20 A	1				540 VA	1080 VA		1	20 A	GHR - RECEPTACLE HALL 121	42
43	GHR - RECEPTACLE CONFERENCE...	20 A	1		1080 VA	1080 VA				1	20 A	GHR - RECEPTACLE CONFERENCE...	44
45	GHR - RECEPTACLE OFFICE 120	20 A	1			900 VA	1080 VA			1	20 A	GHR - RECEPTACLE PUTMAN CONF...	46
47	GHR - RECEPTACLE PUTMAN CONF...	20 A	1				360 VA	720 VA		1	20 A	GHR - RECEPTACLE PUTMAN CONF...	48
49	RECEPTACLE PUTMAN CONF ROOM 124	20 A	1		1080 VA	1080 VA				1	20 A	RECEPTACLE PUTMAN CONF ROOM 124	50
51	RECEPTACLE PUTMAN CONF ROOM 124	20 A	1			360 VA	1440 VA			1	20 A	RECEPTACLE PUTMAN CONF ROOM 124	52
53	RECEPTACLE PUTMAN CONF ROOM 124	20 A	1				900 VA	1080 VA		1	20 A	RECEPTACLE PUTMAN CONF ROOM 124	54
	TOTAL LAOO:				15480 VA	14444 VA	16064 VA					
	TOTAL AMPS:				130 A	120 A	135 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - RECEPTACLE	37260 VA	63.42%	23630 VA		
Receptacle	8728 VA	100.00%	8728 VA	**TOTAL CONN. LOAD:**	45988 VA
				TOTAL EST. DEMAND:	32358 VA
				TOTAL CONN. CURRENT:	128 A
				TOTAL EST. DEMAND CURRENT:	90 A

NOTES:

BRANCH PANEL: LP1B

LOCATION: ELEC CLOSET N101
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	AIR CURTAIN	20 A	1		600 VA	600 VA			1	20 A	AIR CURTAIN	2
3	POWER OPERATED DOOR	20 A	1			960 VA	960 VA		1	20 A	POWER OPERATED DOOR	4
5	CUH-101	20 A	1				480 VA	360 VA	1	20 A	GHR - RECEPTACLE BOARD STOR & AV 122	6
7	GHR - RECEPTACLE BOARD STOR & AV 122	20 A	1		360 VA	360 VA			1	20 A	GHR - RECEPTACLE BOARD STOR & AV 122	8
9	GHR - RECEPTACLE BOARD STOR & AV 122	20 A	1			360 VA	720 VA		1	20 A	GHR - RECEPTACLE BOARD STOR & AV 122	10
11	RECEPTACLE PUTMAN CONF ROOM 124	20 A	1				180 VA	840 VA	1	20 A	GHR - EQUIPMENT	12
13	GHR - RECEPTACLE COPY 103	20 A	1		180 VA							14
15												16
17												18
19	SPACE W/ BUS	--	1	--	--							20
21	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--			--	1 --	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--		--	1 --	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	--	1 --	SPACE W/ BUS	42
	TOTAL LAOD:				2100 VA	3000 VA	1860 VA					
	TOTAL AMPS:				18 A	25 A	16 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	840 VA	100.00%	840 VA		
GHR - RECEPTACLE	2340 VA	100.00%	2340 VA	**TOTAL CONN. LOAD:**	6960 VA
HVAC	3600 VA	100.00%	3600 VA	**TOTAL EST. DEMAND:**	6960 VA
Receptacle	180 VA	100.00%	180 VA	**TOTAL CONN. CURRENT:**	19 A
				TOTAL EST. DEMAND CURRENT:	19 A

NOTES:

BRANCH PANEL: LP2A

LOCATION: ELEC CLOSET N201
SUPPLY FROM: TR-2
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - RECEPTACLE BREAK 214	20 A	1		360 VA	540 VA			1	20 A	GHR - RECEPTACLE BREAK 214	2
3	GHR - RECEPTACLE BOR OFFICE 213	20 A	1			720 VA	720 VA		1	20 A	GHR - RECEPTACLE BOR OFFICE 212	4
5	GHR - RECEPTACLE BOR OFFICE 210	20 A	1				720 VA	720 VA	1	20 A	GHR - RECEPTACLE ASSESSOR OFFICE 208	6
7	GHR - RECEPTACLE ASSESSOR OFFICE 206	20 A	1		720 VA	720 VA			1	20 A	GHR - RECEPTACLE ASSESSOR OFFICE 204	8
9	GHR - RECEPTACLE OPEN OFFICE 203	20 A	1			540 VA	540 VA		1	20 A	GHR - RECEPTACLE OPEN OFFICE 203	10
11	GHR - RECEPTACLE OPEN OFFICE 203	20 A	1				720 VA	540 VA	1	20 A	GHR - RECEPTACLE OPEN OFFICE 203	12
13	GHR - RECEPTACLE DIRECTOR 202	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE OPEN OFFICE 203	14
15	GHR - RECEPTACLE DIRECTOR 202	20 A	1			1080 VA	1620 VA		1	20 A	GHR - RECEPTACLE WELL N204	16
17	GHR - RECEPTACLE HALL 216	20 A	1				1260 VA	1260 VA	1	20 A	GHR - RECEPTACLE BOR MULTIPURPOSE...	18
19	GHR - RECEPTACLE OPEN OFFICE 203	20 A	1		1080 VA	1620 VA			1	20 A	GHR - RECEPTACLE RECORDER STORAGE...	20
21	GHR - RECEPTACLE CHIEF DEPUTY 233	20 A	1			540 VA	720 VA		1	20 A	GHR - RECEPTACLE DIRECTOR 234	22
23	GHR - RECEPTACLE BREAK / ENTRY 230	20 A	1				900 VA	720 VA	1	20 A	GHR - RECEPTACLE OPEN WORK AREA 231	24
25	GHR - RECEPTACLE OPEN STORAGE 244	20 A	1		900 VA	900 VA			1	20 A	GHR - RECEPTACLE OPEN STORAGE 244	26
27	GHR - RECEPTACLE OPEN STORAGE 244	20 A	1			900 VA	900 VA		1	20 A	GHR - RECEPTACLE OFFICE 240	28
29	GHR - RECEPTACLE OFFICE 239	20 A	1				900 VA	720 VA	1	20 A	GHR - RECEPTACLE OFFICE 238	30
31	GHR - RECEPTACLE OFFICE 235	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE OFFICE 236	32
33	GHR - RECEPTACLE OFFICE 237	20 A	1			720 VA	720 VA		1	20 A	GHR - RECEPTACLE PAYMENT AND TAX...	34
35	GHR - RECEPTACLE PAYMENT AND TAX...	20 A	1				720 VA	540 VA	1	20 A	GHR - RECEPTACLE OPEN OFFICE 225	36
37	GHR - RECEPTACLE OPEN OFFICE 225	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE OPEN OFFICE 225	38
39	GHR - RECEPTACLE OPEN OFFICE 225	20 A	1			540 VA	540 VA		1	20 A	GHR - RECEPTACLE OPEN OFFICE 225	40
41	GHR - RECEPTACLE OPEN OFFICE 225	20 A	1		540 VA	900 VA			1	20 A	GHR - RECEPTACLE OPEN OFFICE 225	42
43	GHR - RECEPTACLE OPEN OFFICE 225	20 A	1				540 VA	540 VA	1	20 A	GHR - RECEPTACLE OPEN OFFICE 225	44
45	GHR - RECEPTACLE CHIEF DEPUTY 228	20 A	1			720 VA	540 VA		1	20 A	GHR - RECEPTACLE CHIEF DEPUTY 228	46
47	GHR - RECEPTACLE CONF ROOM 229	20 A	1				1260 VA	900 VA	1	20 A	GHR - RECEPTACLE TREASURER LOBB...	48
49	SPARE	20 A	1	--	0 VA	0 VA			--	1 20 A	SPARE	50
51	SPARE	20 A	1	--		0 VA	0 VA		--	1 20 A	SPARE	52
53	SPARE	20 A	1	--			0 VA	0 VA	--	1 20 A	SPARE	54
	TOTAL LAOD:				13500 VA	13140 VA	13320 VA					
	TOTAL AMPS:				113 A	110 A	111 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	720 VA	100.00%	720 VA		
GHR - RECEPTACLE	38880 VA	62.86%	24440 VA	**TOTAL CONN. LOAD:**	39960 VA
Receptacle	360 VA	100.00%	360 VA	**TOTAL EST. DEMAND:**	25520 VA
				TOTAL CONN. CURRENT:	111 A
				TOTAL EST. DEMAND CURRENT:	71 A

NOTES:

BRANCH PANEL: LP2B

LOCATION: ELEC CLOSET N201
SUPPLY FROM: LP2A
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MLO
MAINS RATING: 225 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - EQUIPMENT CORRIDOR C202	20 A	1		720 VA	180 VA			1	20 A	GHR - RECEPTACLE BOR STORAGE / COPY...	2
3	GHR - RECEPTACLE OPEN WORK AREA 231	20 A	1			180 VA	180 VA		1	20 A	GHR - RECEPTACLE OPEN WORK AREA 231	4
5	GHR - RECEPTACLE PAYMENT AND TAX...	20 A	1				180 VA	180 VA	1	20 A	GHR - RECEPTACLE PAYMENT AND TAX...	6
7	GHR - RECEPTACLE OPEN OFFICE 203	20 A	1		360 VA	720 VA			1	20 A	GHR - RECEPTACLE E 5 ELEV LOBBY S200	8
9	SPARE	20 A	1	--		0 VA	720 VA		1	20 A	GHR - RECEPTACLE WOMEN N202	10
11	SPARE	20 A	1	--			0 VA	0 VA	-- 1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA			-- 1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA		-- 1	20 A	SPARE	16
17	SPACE W/ BUS	--	1	--			--	--	-- 1	--	SPACE W/ BUS	18
19	SPACE W/ BUS	--	1	--	--	--			-- 1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--		--	--		-- 1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--			--	--	-- 1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--	--	--			-- 1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--		--	--		-- 1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	-- 1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--			-- 1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--		-- 1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	-- 1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--			-- 1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--		-- 1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	-- 1	--	SPACE W/ BUS	42
	TOTAL LAOD:				1980 VA	1080 VA	360 VA					
	TOTAL AMPS:				17 A	10 A	3 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	720 VA	100.00%	720 VA		
GHR - RECEPTACLE	2700 VA	100.00%	2700 VA	**TOTAL CONN. LOAD:**	3420 VA
				TOTAL EST. DEMAND:	3420 VA
				TOTAL CONN. CURRENT:	9 A
				TOTAL EST. DEMAND CURRENT:	9 A

NOTES:

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title:

PANEL SCHEDULES

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: E004

BRANCH PANEL: LP3A

LOCATION: ELEC CLOSET N301 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 18 kA
SUPPLY FROM: TR-3 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - RECEPTACLE BREAK AREA 310	20 A	1		360 VA	1080 VA			1	20 A	GHR - RECEPTACLE BREAK AREA 310	2
3	GHR - RECEPTACLE COFFEE 309	20 A	1			360 VA	360 VA		1	20 A	GHR - RECEPTACLE COFFEE 309	4
5	GHR - RECEPTACLE COFFEE 309	20 A	1				540 VA	720 VA	1	20 A	GHR - RECEPTACLE GIS DIRECTOR 308	6
7	GHR - RECEPTACLE COPY 307	20 A	1		1080 VA	540 VA			1	20 A	GHR - RECEPTACLE EQUIP ROOM 306	8
9	GHR - RECEPTACLE OPEN OFFICE 303	20 A	1			720 VA	720 VA		1	20 A	GHR - RECEPTACLE OPEN OFFICE 303	10
11	GHR - RECEPTACLE OPEN OFFICE 303	20 A	1				540 VA	540 VA	1	20 A	GHR - RECEPTACLE OPEN OFFICE 303	12
13	GHR - RECEPTACLE OPEN OFFICE 303	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE OPEN OFFICE 303	14
15	GHR - RECEPTACLE ZONING ADMIN 305	20 A	1			720 VA	900 VA		1	20 A	GHR - RECEPTACLE SR PLANNER 304	16
17	GHR - RECEPTACLE WELL N304	20 A	1				1080 VA	900 VA	1	20 A	GHR - RECEPTACLE OFFICE 313	18
19	GHR - RECEPTACLE OFFICE 312	20 A	1		900 VA	900 VA			1	20 A	GHR - RECEPTACLE STORAGE 314	20
21	GHR - RECEPTACLE OPEN OFFICE 311	20 A	1			720 VA	1080 VA		1	20 A	GHR - RECEPTACLE FILE STORAGE 302	22
23	GHR - RECEPTACLE COPY 301	20 A	1				180 VA	1080 VA	1	20 A	GHR - RECEPTACLE OPEN OFFICE 303	24
25	GHR - RECEPTACLE OPEN OFFICE 303	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE OPEN OFFICE 303	26
27	GHR - RECEPTACLE HALL 341	20 A	1			720 VA	900 VA		1	20 A	GHR - RECEPTACLE SHARED CONFERENCE...	28
29	GHR - RECEPTACLE ADMIN ASSIST 334	20 A	1				900 VA	1080 VA	1	20 A	GHR - RECEPTACLE LOBBY 300	30
31	GHR - RECEPTACLE NEW OFFICE 332	20 A	1		720 VA	720 VA			1	20 A	GHR - RECEPTACLE EXEC ASSIST 331	32
33	GHR - RECEPTACLE OPEN 339	20 A	1			900 VA	1080 VA		1	20 A	GHR - RECEPTACLE COPY / LG PROD 335	34
35	GHR - RECEPTACLE COPY / LG PROD 335	20 A	1				540 VA	1664 VA	2	20 A	RECEPTACLE COPY / LG PROD 335	36
37	GHR - RECEPTACLE OPEN 339	20 A	1		720 VA	1664 VA						38
39	GHR - RECEPTACLE COUNTY BOARD CHAI...	20 A	1			720 VA	720 VA		1	20 A	GHR - RECEPTACLE LAYOUT AREA 320	40
41	GHR - RECEPTACLE LAYOUT AREA 320	20 A	1				360 VA	720 VA	1	20 A	GHR - RECEPTACLE FACILITIES MANAGER...	42
43	GHR - RECEPTACLE MANAGER 322	20 A	1		720 VA	720 VA			1	20 A	GHR - RECEPTACLE ADMIN ASSIST 324	44
45	GHR - RECEPTACLE ADMIN ASSIST 325	20 A	1				720 VA	720 VA	1	20 A	GHR - RECEPTACLE INS SPEC 326	46
47	GHR - RECEPTACLE PAYROLL SPEC 327	20 A	1			720 VA	720 VA		1	20 A	GHR - RECEPTACLE DIR FINANCE 328	48
49	GHR - RECEPTACLE DIR ADMIN 329	20 A	1		720 VA	720 VA			1	20 A	GHR - RECEPTACLE COUNTY EXEC 330	50
51	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	52
53	SPARE	20 A	1	--			0 VA	0 VA	1	20 A	SPARE	54
		TOTAL LAOD:			15044 VA	12240 VA	13184 VA					
		TOTAL AMPS:			127 A	102 A	111 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	600 VA	100.00%	600 VA		
GHR - RECEPTACLE	35460 VA	64.10%	22730 VA	TOTAL CONN. LOAD:	40468 VA
Receptacle	4408 VA	100.00%	4408 VA	TOTAL EST. DEMAND:	27738 VA
				TOTAL CONN. CURRENT:	112 A
				TOTAL EST. DEMAND CURRENT:	77 A

NOTES:

BRANCH PANEL: LP3B

LOCATION: ELEC CLOSET N301 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 18 kA
SUPPLY FROM: LP3A | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1 | **MCB RATING:** -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE	20 A	1	--	0 VA	600 VA			1	20 A	GHR - EQUIPMENT CORRIDOR C302	2
3	SPARE	20 A	1	--		0 VA	180 VA		1	20 A	GHR - RECEPTACLE EQUIP ROOM 306	4
5	GHR - RECEPTACLE EQUIP ROOM 306	20 A	1				180 VA	720 VA	1	20 A	GHR - RECEPTACLE BUILDING STORAGE 318	6
7	RECEPTACLE SHARED CONFERENCE 315	20 A	1		720 VA							8
9	SPARE	20 A	1	--		0 VA	0 VA		--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA	0 VA	--	1	20 A	SPARE	12
13	SPACE W/ BUS	--	1	--	--	0 VA			--	1	20 A	SPARE	14
15	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	16
17	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	18
19	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			1320 VA	180 VA	900 VA					
		TOTAL AMPS:			12 A	2 A	8 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	600 VA	100.00%	600 VA		
GHR - RECEPTACLE	1440 VA	100.00%	1440 VA	TOTAL CONN. LOAD:	2400 VA
Receptacle	360 VA	100.00%	360 VA	TOTAL EST. DEMAND:	2400 VA
				TOTAL CONN. CURRENT:	7 A
				TOTAL EST. DEMAND CURRENT:	7 A

NOTES:

BRANCH PANEL: LP4A

LOCATION: ELEC CLOSET N401 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 18 kA
SUPPLY FROM: TR-4 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - RECEPTACLE DIRECTOR 402	20 A	1		900 VA	900 VA			1	20 A	GHR - RECEPTACLE OFFICE 403	2
3	GHR - RECEPTACLE OFFICE 404	20 A	1			900 VA	720 VA		1	20 A	GHR - RECEPTACLE OFFICE 405	4
5	GHR - RECEPTACLE OFFICE 406	20 A	1				900 VA	720 VA	1	20 A	GHR - RECEPTACLE CONF ROOM 407	6
7	GHR - RECEPTACLE COPY/ STORAGE 408	20 A	1		1260 VA	540 VA			1	20 A	GHR - RECEPTACLE BREAK AREA 409	8
9	GHR - RECEPTACLE BREAK AREA 409	20 A	1			720 VA	540 VA		1	20 A	GHR - RECEPTACLE BREAK AREA 410	10
11	GHR - RECEPTACLE BREAK AREA 410	20 A	1				1440 VA	1260 VA	1	20 A	GHR - RECEPTACLE RR N404	12
13	GHR - RECEPTACLE DATA ANALYST 417	20 A	1		900 VA	900 VA			1	20 A	GHR - RECEPTACLE PATROL LT 413	14
15	GHR - RECEPTACLE ADMIN LT 412	20 A	1			1080 VA	900 VA		1	20 A	GHR - RECEPTACLE REC SUP 411	16
17	GHR - RECEPTACLE HALL 450	20 A	1				900 VA	900 VA	1	20 A	GHR - RECEPTACLE CHIEF DEPUTY 401	18
19	GHR - RECEPTACLE LOBBY 400	20 A	1		1440 VA	1440 VA			1	20 A	GHR - RECEPTACLE	20
21	GHR - RECEPTACLE ACTIVE RECORDS...	20 A	1			900 VA	720 VA		1	20 A	GHR - RECEPTACLE OFFICE 415	22
23	GHR - RECEPTACLE OFFICE 416	20 A	1				720 VA	900 VA	1	20 A	GHR - RECEPTACLE OFFICE 421	24
25	GHR - RECEPTACLE OFFICE 422	20 A	1		720 VA	720 VA			1	20 A	GHR - RECEPTACLE BREAK 463	26
27	GHR - RECEPTACLE TECH ROOM 420	20 A	1			900 VA	540 VA		1	20 A	GHR - RECEPTACLE TECH ROOM 420	28
29	GHR - RECEPTACLE INTERVIEW 419	20 A	1				900 VA	720 VA	1	20 A	GHR - RECEPTACLE INTERVIEW 427	30
31	GHR - RECEPTACLE INTERVIEW 418	20 A	1		720 VA	1440 VA			1	20 A	GHR - RECEPTACLE OBSERV 429	32
33	GHR - RECEPTACLE	20 A	1			540 VA	900 VA		1	20 A	GHR - RECEPTACLE	34
35	GHR - RECEPTACLE	20 A	1				720 VA	1080 VA	1	20 A	GHR - RECEPTACLE INTERVIEW/...	36
37	GHR - RECEPTACLE RR 439	20 A	1		1260 VA	1080 VA			1	20 A	GHR - RECEPTACLE EXEC ASSIST 437	38
39	GHR - RECEPTACLE INV LT 423	20 A	1			720 VA	900 VA		1	20 A	GHR - RECEPTACLE OFFICE 424	40
41	GHR - RECEPTACLE OFFICE 425	20 A	1				900 VA	720 VA	1	20 A	GHR - RECEPTACLE OFFICE 426	42
43	GHR - RECEPTACLE OFFICE 428	20 A	1		1080 VA	900 VA			1	20 A	GHR - RECEPTACLE OFFICE 430	44
45	GHR - RECEPTACLE INV CONF 431	20 A	1			720 VA	1260 VA		1	20 A	GHR - RECEPTACLE DIRECTOR 433	46
47	GHR - RECEPTACLE DIRECTOR 434	20 A	1				1260 VA	720 VA	1	20 A	GHR - RECEPTACLE CONFERENCE 435	48
49	GHR - RECEPTACLE SHERIFF 436	20 A	1		1080 VA	0 VA			--	1	20 A	SPARE	50
51	SPARE	20 A	1	--		0 VA	0 VA		--	1	20 A	SPARE	52
53	SPARE	20 A	1	--			0 VA	0 VA	--	1	20 A	SPARE	54
		TOTAL LAOD:			18540 VA	13500 VA	16020 VA					
		TOTAL AMPS:			158 A	113 A	137 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	1080 VA	100.00%	1080 VA		
GHR - RECEPTACLE	46260 VA	60.81%	28130 VA	TOTAL CONN. LOAD:	48060 VA
Receptacle	720 VA	100.00%	720 VA	TOTAL EST. DEMAND:	29930 VA
				TOTAL CONN. CURRENT:	133 A
				TOTAL EST. DEMAND CURRENT:	83 A

NOTES:

BRANCH PANEL: LP4B

LOCATION: ELEC CLOSET N401 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 18 kA
SUPPLY FROM: LP4A | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1 | **MCB RATING:** -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - EQUIPMENT CORRIDOR C403	20 A	1		1080 VA	180 VA			1	20 A	GHR - RECEPTACLE HALL 450	2
3	GHR - RECEPTACLE COPY/ STORAGE 408	20 A	1			180 VA	360 VA		1	20 A	GHR - RECEPTACLE HALL 450	4
5	GHR - RECEPTACLE INV CONF 431	20 A	1				540 VA	720 VA	1	20 A	GHR - RECEPTACLE CONFERENCE 435	6
7												8
9	SPARE	20 A	1	--		0 VA	0 VA		--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA	0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA			--	1	20 A	SPARE	14
15	SPACE W/ BUS	--	1	--		--	--		--	1	--	SPACE W/ BUS	16
17	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	18
19	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	20
21	SPACE W/ BUS	--	1	--		--	--		--	1	--	SPACE W/ BUS	22
23	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	24
25	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--		--	--		--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--		--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--			--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			1260 VA	540 VA	1260 VA					
		TOTAL AMPS:			11 A	5 A	11 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	1080 VA	100.00%	1080 VA		
GHR - RECEPTACLE	1620 VA	100.00%	1620 VA	TOTAL CONN. LOAD:	3060 VA
Receptacle	360 VA	100.00%	360 VA	TOTAL EST. DEMAND:	3060 VA
				TOTAL CONN. CURRENT:	8 A
				TOTAL EST. DEMAND CURRENT:	8 A

NOTES:

BRANCH PANEL: LP5A

LOCATION: ELEC N501 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 18 kA
SUPPLY FROM: | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1 | **MCB RATING:** 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1												2
3	GHR - RECEPTACLE BREAK AREA 515	20 A	1			720 VA	720 VA		1	20 A	GHR - RECEPTACLE OFFICE 514	4
5	GHR - RECEPTACLE OFFICE 513	20 A	1				540 VA	540 VA	1	20 A	GHR - RECEPTACLE OFFICE 511	6
7	GHR - RECEPTACLE OFFICE 510	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE OFFICE 509	8
9	GHR - RECEPTACLE OFFICE 508	20 A	1			540 VA	360 VA		1	20 A	GHR - RECEPTACLE OFFICE 507	10
11	GHR - RECEPTACLE OFFICE 506	20 A	1				720 VA	540 VA	1	20 A	GHR - RECEPTACLE OFFICE 505	12
13	GHR - RECEPTACLE OFFICE 504	20 A	1		720 VA	1260 VA			1	20 A	GHR - RECEPTACLE N ELEV LOBBY N500	14
15	GHR - RECEPTACLE OFFICE 516	20 A	1				720 VA	900 VA	1	20 A	GHR - RECEPTACLE HALL 551	16
17	GHR - RECEPTACLE FILES 502	20 A	1					900 VA	540 VA	1	20 A	GHR - RECEPTACLE SECRETARY 501	18
19	GHR - RECEPTACLE SECRETARY 501	20 A	1		540 VA	540 VA			1	20 A	GHR - RECEPTACLE SECRETARY 501	20
21	GHR - RECEPTACLE SECRETARY 501	20 A	1				540 VA	720 VA	1	20 A	GHR - RECEPTACLE SECRETARY 501	22
23	GHR - RECEPTACLE SUPPLIES/ COPY 503	20 A	1					720 VA	1260 VA	1	20 A	GHR - RECEPTACLE OFFICE 521	24
25	GHR - RECEPTACLE INTERNS 519	20 A	1		900 VA	720 VA			1	20 A	GHR - RECEPTACLE MISC STORAGE 520	26
27	GHR - RECEPTACLE LG CONF/ LIBRARY 518	20 A	1				1080 VA	1440 VA	1	20 A	GHR - RECEPTACLE LG CONF/ LIBRARY 518	28
29	GHR - RECEPTACLE MED CONF 539	20 A	1					900 VA	540 VA	1	20 A	GHR - RECEPTACLE MED CONF 539	30
31	GHR - RECEPTACLE WAITING 500	20 A	1		1080 VA	1080 VA			1	20 A	GHR - RECEPTACLE OFFICE 537	32
33	GHR - RECEPTACLE OFFICE 536	20 A	1				720 VA	720 VA	1	20 A	GHR - RECEPTACLE OFFICE 529	34
35	GHR - RECEPTACLE OFFICE 531	20 A	1					1080 VA	900 VA	1	20 A	GHR - RECEPTACLE HALL 552	36
37	GHR - RECEPTACLE OFFICE 523	20 A	1		900 VA	720 VA			1	20 A	GHR - RECEPTACLE OFFICE 524	38
39	GHR - RECEPTACLE HALL 552	20 A	1				900 VA	720 VA	1	20 A	GHR - RECEPTACLE OFFICE 526	40
41	GHR - RECEPTACLE OFFICE 527	20 A	1					900 VA	720 VA	1	20 A	GHR - RECEPTACLE HALL 552	42
43	GHR - RECEPTACLE OFFICE 530	20 A	1		720 VA	900 VA			1	20 A	GHR - RECEPTACLE HALL 552	44
45	GHR - RECEPTACLE HALL 552	20 A	1				1260 VA	900 VA	1	20 A	GHR - RECEPTACLE OFFICE 534	46
47	GHR - RECEPTACLE HALL 552	20 A	1					1080 VA	1080 VA	1	20 A	GHR - RECEPTACLE OFFICE 517	48
49	SPARE	20 A	1	--	0 VA	0 VA			--	1	20 A	SPARE	50
51	SPARE	20 A	1	--		0 VA	0 VA		--	1	20 A	SPARE	52
53	SPARE	20 A	1	--			0 VA	0 VA	--	1	20 A	SPARE	54
		TOTAL LAOD:			11520 VA	12960 VA	12960 VA					
		TOTAL AMPS:			96 A	110 A	110 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	360 VA	100.00%	360 VA		
GHR - RECEPTACLE	36720 VA	63.62%	23360 VA	TOTAL CONN. LOAD:	37440 VA
Receptacle	360 VA	100.00%	360 VA	TOTAL EST. DEMAND:	24080 VA
				TOTAL CONN. CURRENT:	104 A
				TOTAL EST. DEMAND CURRENT:	67 A

NOTES:

BRANCH PANEL: LP5B

LOCATION: ELEC N501 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 18 kA
SUPPLY FROM: LP5A | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: NEMA 1 | **MCB RATING:** -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GHR - EQUIPMENT N ELEV LOBBY N500	20 A	1		360 VA							2
3												4
5	SPARE	20 A	1	--			0 VA					6
7	SPARE	20 A	1	--	0 VA	0 VA			--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0 VA	0 VA		--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0 VA	0 VA	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0 VA	0 VA			--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA		--	1	20 A	SPARE	16
17	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	18
19	SPACE W/ BUS	--	1	--	--	0 VA			--	1	20 A	SPARE	20
21	SPACE W/ BUS	--	1	--		--	0 VA		--	1	20 A	SPARE	22
23	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	24
25	SPACE W/ BUS	--	1	--	--	0 VA			--	1	20 A	SPARE	26
27	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	28
29	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	30
31	SPACE W/ BUS	--	1	--	--	0 VA			--	1	20 A	SPARE	32
33	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	34
35	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	36
37	SPACE W/ BUS	--	1	--	--	0 VA			--	1	20 A	SPARE	38
39	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	40
41	SPACE W/ BUS	--	1	--			--	0 VA	--	1	20 A	SPARE	42
		TOTAL LAOD:			360 VA	0 VA	0 VA					
		TOTAL AMPS:			3 A	0 A	0 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - EQUIPMENT	360 VA	100.00%	360 VA		
				TOTAL CONN. LOAD:	360 VA
				TOTAL EST. DEMAND:	360 VA
				TOTAL CONN. CURRENT:	1 A
				TOTAL EST. DEMAND CURRENT:	1 A

NOTES:

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date | Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title

PANEL SCHEDULES

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: E005

BRANCH PANEL: HPM

LOCATION: MECH 009
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 kA
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1					5813 VA	5813 VA						2
3	HOT WATER PUMP HWP-1	40 A	3			5813 VA	5813 VA		3	40 A	HOT WATER PUMP HWP-2	4
5							5813 VA	5813 VA				6
7					0 VA	8996 VA						8
9	TR-0M	100 A	3			0 VA	8996 VA		3	50 A	LIEBERT UNIT	10
11							0 VA	8996 VA				12
13					664 VA	0 VA		--	1	20 A	SPARE	14
15	LIEBERT OUTDOOR UNIT	15 A	3			664 VA	0 VA	--	1	20 A	SPARE	16
17							664 VA	0 VA	--	1	20 A	SPARE	18
19	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	20
21	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	22
23	SPARE	20 A	1	--			0 VA	--	1	--	SPACE W/ BUS	24
25	SPARE	20 A	1	--	0 VA	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			21286 VA		21286 VA					
		TOTAL AMPS:			77 A		77 A					

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - HVAC	63858 VA	110.57%	70605 VA		
				TOTAL CONN. LOAD:	63858 VA
				TOTAL EST. DEMAND:	70605 VA
				TOTAL CONN. CURRENT:	77 A
				TOTAL EST. DEMAND CURRENT:	85 A

NOTES:

BRANCH PANEL: LPM

LOCATION: MECH 009
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 kA
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	TYPE	A	B	C	TYPE	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	UNIT HEATER	20 A	1		480 VA	1860 VA			1	20 A	BOILER B-1	2
3	BOILER B-2	20 A	1			1860 VA	1860 VA		1	20 A	BOILER B-3	4
5	BOILER PUMP BP-1	20 A	1				672 VA	672 VA	1	20 A	BOILER PUMP BP-2	6
7	BOILER PUMP BP-3	20 A	1		672 VA	672 VA			1	20 A	HOT WATER CIRC PUMP	8
9	DOMESTIC WATER PUMP	25 A	1			1776 VA	1776 VA		1	25 A	DOMESTIC WATER PUMP	10
11	AIR CURTAIN	20 A	1				600 VA	600 VA	1	20 A	AIR CURTAIN	12
13	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	--	0 VA	0 VA		--	1	20 A	SPARE	20
21	SPARE	20 A	1	--		0 VA	0 VA	--	1	20 A	SPARE	22
23	SPACE W/ BUS	--	1	--				--	1	20 A	SPARE	24
25	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	26
27	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	28
29	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	30
31	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	32
33	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	34
35	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	36
37	SPACE W/ BUS	--	1	--	--	--		--	1	--	SPACE W/ BUS	38
39	SPACE W/ BUS	--	1	--		--	--	--	1	--	SPACE W/ BUS	40
41	SPACE W/ BUS	--	1	--			--	--	1	--	SPACE W/ BUS	42
		TOTAL LAOD:			3684 VA		7272 VA	2544 VA				
		TOTAL AMPS:			32 A		62 A	21 A				

LEGEND:

LOADCLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	13500 VA	100.00%	13500 VA		
				TOTAL CONN. LOAD:	13500 VA
				TOTAL EST. DEMAND:	13500 VA
				TOTAL CONN. CURRENT:	37 A
				TOTAL EST. DEMAND CURRENT:	37 A

NOTES:

DIST. PANEL: PPN

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 65 kA
MAINS TYPE: MLO
MAINS RATING: 600 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	LOAD	REMARKS
1	RTU-1	3	125 A	125 A	81379 VA	
2	RTU-2	3	125 A	125 A	81379 VA	
3	RTU-3	3	125 A	125 A	81379 VA	
4	EF-1	3	100 A	15 A	2823 VA	
5	SPACE W/ BUS	1	--	--	--	
6	SPACE W/ BUS	1	--	--	--	
7	SPACE W/ BUS	1	--	--	--	
8	SPACE W/ BUS	1	--	--	--	
9						
10						
				TOTAL CONN. LOAD:	246961 VA	
				TOTAL AMPS:	297 A	

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - HVAC	246961 VA	108.24%	267306 VA		
				TOTAL CONN. LOAD:	246961 VA
				TOTAL EST. DEMAND:	267306 VA
				TOTAL CONN. CURRENT:	297 A
				TOTAL EST. DEMAND CURRENT:	322 A

NOTES:

DIST. PANEL: PPS

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 65 kA
MAINS TYPE: MLO
MAINS RATING: 600 A
MCB RATING: -

NOTES:

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	LOAD	REMARKS
1	RTU-4	3	125 A	125 A	81379 VA	
2	RTU-5	3	250 A	175 A	106872 VA	
3	EF-2	3	100 A	15 A	830 VA	
4	EF-3	3	100 A	15 A	2491 VA	
5	SPACE W/ BUS	1	--	--	--	
6	SPACE W/ BUS	1	--	--	--	
7	SPACE W/ BUS	1	--	--	--	
8	SPACE W/ BUS	1	--	--	--	
9						
10						
				TOTAL CONN. LOAD:	191573 VA	
				TOTAL AMPS:	230 A	

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
GHR - HVAC	191573 VA	113.95%	218291 VA		
				TOTAL CONN. LOAD:	191573 VA
				TOTAL EST. DEMAND:	218291 VA
				TOTAL CONN. CURRENT:	230 A
				TOTAL EST. DEMAND CURRENT:	263 A

NOTES:

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title

PANEL SCHEDULES

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: Author
Drawing No.: E006

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 3:06:09 PM

MOTOR STARTER & DISCONNECT SWITCH SCHEDULE

TAG NO.	EQUIPMENT DESCRIPTION	LOAD DESCRIPTION HP	W	FLA	MCA	MOCP	LINE VOLTAGE	PHASE	COMBINATION MOTOR STARTER & DISCONNECT SWITCH: INTEGRAL FUSED DISCONNECT SWITCH	STARTER SIZE	STARTER TYPE	CONTROL LOCATION	SWITCH & FUSE OR BREAKER SIZE	CONDUCTOR SIZE AND QTY.	CONDUIT SIZE	DISCONNECT MEANS ADJACENT TO MOTOR	MOTOR LOCATION	MOUNT IN DOOR OF STARTER: P.B.	H.O.A.	P.L.	AUX. CONTACT REQ'D: N.O.	N.C.	Keynote
1	AHU-1 PACKAGED ROOFTOP UNIT - 40 TON- 480V	-	-	98.0 A	105A	125A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-125A HACR	3#1 & 1#6 GND.	1 1/2"	SEE NOTE #1	ROOF	-	-	-	-	-	SEE NOTE #4
2	AHU-2 PACKAGED ROOFTOP UNIT - 40 TON- 480V	-	-	98.0 A	105A	125A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-125A HACR	3#1 & 1#6 GND.	1 1/2"	SEE NOTE #1	ROOF	-	-	-	-	-	SEE NOTE #4
3	AHU-3 PACKAGED ROOFTOP UNIT - 40 TON- 480V	-	-	98.0 A	105A	125A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-125A HACR	3#1 & 1#6 GND.	1 1/2"	SEE NOTE #1	ROOF	-	-	-	-	-	SEE NOTE #4
4	AHU-4 PACKAGED ROOFTOP UNIT - 40 TON- 480V	-	-	98.0 A	105A	125A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-125A HACR	3#1 & 1#6 GND.	1 1/2"	SEE NOTE #1	ROOF	-	-	-	-	-	SEE NOTE #4
5	AHU-5 PACKAGED ROOFTOP UNIT - 50 TON- 480V	-	-	128.7 A	139A	175A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-175A HACR	3#1/0 & 1#6 GND.	1 1/2"	SEE NOTE #1	ROOF	-	-	-	-	-	SEE NOTE #4
6A	FIRE PUMP- 480V	60	-	77.0 A	98A	600A	480 V	3	SEE	-	-	AT UNIT	3P-600A	3#1 & 1#6 GND.	1 1/2"	SEE NOTE #1	FIRE PUMP ROOM	-	-	-	-	-	
6B	JOCKEY PUMP- 480V	1/2	-	1.0 A	1A	-	480 V	3	SEE	-	-	AT UNIT	-	3#1 & 1#6 GND.	3/4"	SEE NOTE #1	FIRE PUMP ROOM	-	-	-	-	-	
7	BOILER	-	-	15.5 A	18.9 A	20 A	120 V	1	-	-	-	AT UNIT	1P-20A HACR	2#12 & 1#12 GND.	3/4"	M.M.S. SEE NOTE #2	MECH RM 009	-	-	-	-	-	
8	VARIABLE SPEED BOILER PUMP	FRAC	-	5.6 A	-	-	120 V	1	-	-	-	AT UNIT	1P-20A HACR	2#12 & 1#12 GND.	3/4"	M.M.S. SEE NOTE #2	MECH RM 009	-	-	-	-	-	
9	EXHAUST FAN EF-1	2	-	3.4 A	4.38 A	15 A	480 V	3	SEE	#0	ACL	AT MOTOR	3P-15A	3#12 & 1#12 GND.	3/4"	3P-30A CSWPFDS	ROOF	-	-	-	-	-	
10	EXHAUST FAN EF-2	1/2	-	1.0 A	1 A	15 A	480 V	3	SEE	#0	ACL	AT MOTOR	3P-15A	3#12 & 1#12 GND.	3/4"	3P-30A CSWPFDS	ROOF	-	-	-	-	-	
11	EXHAUST FAN EF-3	1 1/2	-	3.0 A	3.86 A	15 A	480 V	3	SEE	#0	ACL	AT MOTOR	3P-15A	3#12 & 1#12 GND.	3/4"	3P-30A CSWPFDS	ROOF	-	-	-	-	-	
12	UNIT HEATER UH-1	FRAC	-	4.0 A		20 A	120 V	1	-	-	-	AT UNIT	1P-20A HACR	2#12 & 1#12 GND.	3/4"	M.M.S. SEE NOTE #2	MECH RM 009	-	-	-	-	-	
13	HOT WATER PUMP	15	-	21.0 A	27A	40A	480 V	3	SEE NOTE #3	-	-	MECH RM 009	3P-40A	3#10 & 1#10 GND.	3/4"	SEE NOTE #2	MECH RM 009	-	-	-	-	-	
14	AIR CURTAIN	1/2	-	5.0 A	-	-	120 V	1	SEE NOTE #1	-	-	AT UNIT	1P-20A	2#12 & 1#12 GND.	3/4"	SEE NOTE #1	WHERE SHOWN	-	-	-	-	-	
15	HOT WATER CIRC PUMP	FRAC	-	5.6 A	-	-	120 V	1	-	-	-	AT UNIT	1P-20A HACR	2#12 & 1#12 GND.	3/4"	M.M.S. SEE NOTE #2	MECH RM 009	-	-	-	-	-	
16	EXISTING DOMESTIC WATER PUMP	3/4	-	14.8 A	-	-	120 V	1	-	-	-	AT UNIT	1P-25A HACR	2#10 & 1#10 GND.	3/4"	M.M.S. SEE NOTE #2	MECH RM 009	-	-	-	-	-	
17	AHU-LL PACKAGED ROOFTOP UNIT - 40 TON- 480V	-	-	100.0 A	107A	125A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-125A HACR	3#1 & 1#6 GND.	1 1/2"	SEE NOTE #1	FIRST FLOOR GRADE	-	-	-	-	-	SEE NOTE #4
18	POWER OPERATED DOOR	FRAC	-	8.0 A			120 V	1	SEE NOTE #1	-	-	AT UNIT	1P-20A	2#12 & 1#12 GND.	3/4"	M.M.S. SEE NOTE #2	WHERE SHOWN	-	-	-	-	-	
19	LIEBERT UNIT	-	-	32.5 A	39.6 A	50 A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-50A	3#8 & 1#10 GND.	3/4"	SEE NOTE #1	SERVER ROOM	-	-	-	-	-	
20	LIEBERT UNIT OUTDOOR UNIT	-	-	2.4 A	2.4 A	15 A	480 V	3	SEE NOTE #1	-	-	AT UNIT	3P-15A	3#12 & 1#12 GND.	3/4"	3P-30A WPNFDS	GRADE	-	-	-	-	-	
21	CABINET UNIT HEATER CUH-101	FRAC	-	4.0 A		20 A	120 V	1	-	-	-	AT UNIT	1P-20A HACR	2#12 & 1#12 GND.	3/4"	M.M.S. SEE NOTE #2	MECH RM 009	-	-	-	-	-	

ABBREVIATIONS FOR MOTOR STARTER SCHEDULE

FVNR	FULL VOLTAGE NON REVERSING	FDS	FUSED DISCONNECT SWITCH	PB	PUSH BUTTON
MMS	MANUAL MOTOR STARTER	NFDS	NON FUSED DISCONNECT SWITCH	HOA	HAND-OFF-AUTO SELECTOR
CSDS	COMBINATION STARTER/DISCONNECT SWITCH	WPFDS	WEATHERPROOF FUSED DISCONNECT SWITCH	PL	PILOT LIGHT
CSWPDS	COMBINATION STARTER/WEATHER PROOF DISCONNECT SWITCH	WPNFDS	WEATHERPROOF NON FUSED DISCONNECT SWITCH	NO	NORMALLY OPEN
VFD	VARIABLE FREQUENCY DRIVE	HACR	HEATING, AIR CONDITIONING, REFRIGERATION RATED	NC	NORMALLY CLOSED
STCB	SHUNT TRIP CIRCUIT BREAKER	MCC	MOTOR CONTROL CENTER		

A	AMPS
P	POLE
HP	HORSEPOWER
KW	KILOWATT
FLA	FULL LOAD AMPS

NOTE #1 - STARTERS AND DISCONNECT SWITCH FURNISHED INTEGRAL WITH UNIT BY EQUIPMENT MANUFACTURER, PROVIDE ALL FINAL POWER CONNECTIONS TO INCOMING TERMINALS

NOTE #2 - PROVIDE MANUAL MOTOR STARTER WITH PILOT LIGHT FOR DISCONNECT MEANS ADJACENT TO MOTOR OR ON WALL AS SHOWN

NOTE #3 - VFD WITH INTEGRAL DISCONNECT SWITCH FURNISHED WITH UNIT BY MECHANICAL TRADE, ELECTRICAL CONTRACTOR TO INSTALL ON WALL AND PROVIDE ALL FINAL LINE AND LOAD SIDE CONNECTIONS

NOTE #4 - UNIT FURNISHED WITH INTEGRAL DUCT MOUNTED SMOKE DETECTORS IN SUPPLY AND RETURN AIR DUCTS, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULE AT EACH DETECTOR AND FINAL FIRE ALARM CONNECTIONS AS REQUIRED. MOUNT REMOTE TEST SWITCH/LED ANNUNCIATOR FLUSH IN LAY-IN CEILING BELOW UNIT FOR ROOF MOUNTED UNITS AND IN LOWER LEVEL ADJACENT ROOM FOR AHU-LL. INTEGRAL DETECTORS SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE BY EITHER DETECTOR AND INITIATE ALARM TO FIRE ALARM CONTROL PANEL

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

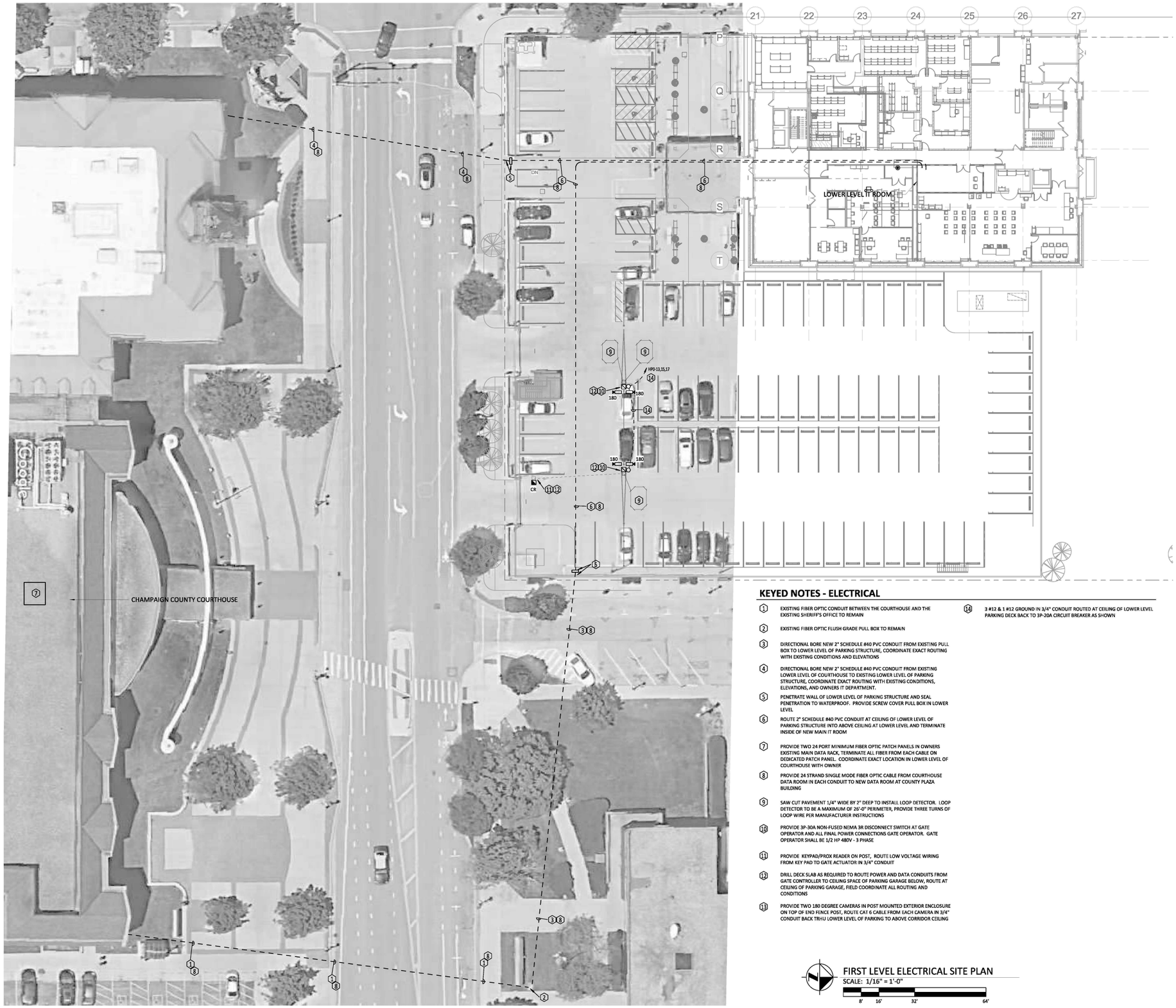
102 E. Main St., Urbana, IL 61801

Drawing Title

ELECTRICAL MOTOR SCHEDULE

Expiration Date of Seal: 04-19-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: Author
Drawing No.: E007



KEYED NOTES - ELECTRICAL

1. EXISTING FIBER OPTIC CONDUIT BETWEEN THE COURTHOUSE AND THE EXISTING SHERIFF'S OFFICE TO REMAIN
2. EXISTING FIBER OPTIC FLUSH GRADE PULL BOX TO REMAIN
3. DIRECTIONAL BORE NEW 2" SCHEDULE #40 PVC CONDUIT FROM EXISTING PULL BOX TO LOWER LEVEL OF PARKING STRUCTURE, COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND ELEVATIONS
4. DIRECTIONAL BORE NEW 2" SCHEDULE #40 PVC CONDUIT FROM EXISTING LOWER LEVEL OF COURTHOUSE TO EXISTING LOWER LEVEL OF PARKING STRUCTURE, COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS, ELEVATIONS, AND OWNERS IT DEPARTMENT.
5. PENETRATE WALL OF LOWER LEVEL OF PARKING STRUCTURE AND SEAL PENETRATION TO WATERPROOF. PROVIDE SCREW COVER PULL BOX IN LOWER LEVEL
6. ROUTE 2" SCHEDULE #40 PVC CONDUIT AT CEILING OF LOWER LEVEL OF PARKING STRUCTURE INTO ABOVE CEILING AT LOWER LEVEL AND TERMINATE INSIDE OF NEW MAIN IT ROOM
7. PROVIDE TWO 24 PORT MINIMUM FIBER OPTIC PATCH PANELS IN OWNERS EXISTING MAIN DATA RACK, TERMINATE ALL FIBER FROM EACH CABLE ON DEDICATED PATCH PANEL. COORDINATE EXACT LOCATION IN LOWER LEVEL OF COURTHOUSE WITH OWNER
8. PROVIDE 24 STRAND SINGLE MODE FIBER OPTIC CABLE FROM COURTHOUSE DATA ROOM IN EACH CONDUIT TO NEW DATA ROOM AT COUNTY PLAZA BUILDING
9. SAW CUT PAVEMENT 1/4" WIDE BY 2" DEEP TO INSTALL LOOP DETECTOR. LOOP DETECTOR TO BE A MAXIMUM OF 26'-0" PERIMETER, PROVIDE THREE TURNS OF LOOP WIRE PER MANUFACTURER INSTRUCTIONS
10. PROVIDE 3P-30A NON-FUSED NEMA 3R DISCONNECT SWITCH AT GATE OPERATOR AND ALL FINAL POWER CONNECTIONS GATE OPERATOR. GATE OPERATOR SHALL BE 1/2 HP 480V - 3 PHASE
11. PROVIDE KEYPAD/PROX READER ON POST, ROUTE LOW VOLTAGE WIRING FROM KEY PAD TO GATE ACTUATOR IN 3/4" CONDUIT
12. DRILL DECK SLAB AS REQUIRED TO ROUTE POWER AND DATA CONDUITS FROM GATE CONTROLLER TO CEILING SPACE OF PARKING GARAGE BELOW, ROUTE AT CEILING OF PARKING GARAGE, FIELD COORDINATE ALL ROUTING AND CONDITIONS
13. PROVIDE TWO 180 DEGREE CAMERAS IN POST MOUNTED EXTERIOR ENCLOSURE ON TOP OF END FENCE POST, ROUTE CAT 6 CABLE FROM EACH CAMERA IN 3/4" CONDUIT BACK TRHU LOWER LEVEL OF PARKING TO ABOVE CORRIDOR CEILING
14. 3 #12 & 1 #12 GROUND IN 3/4" CONDUIT ROUTED AT CEILING OF LOWER LEVEL PARKING DECK BACK TO 3P-20A CIRCUIT BREAKER AS SHOWN

FIRST LEVEL ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

8' 16' 32' 64'

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

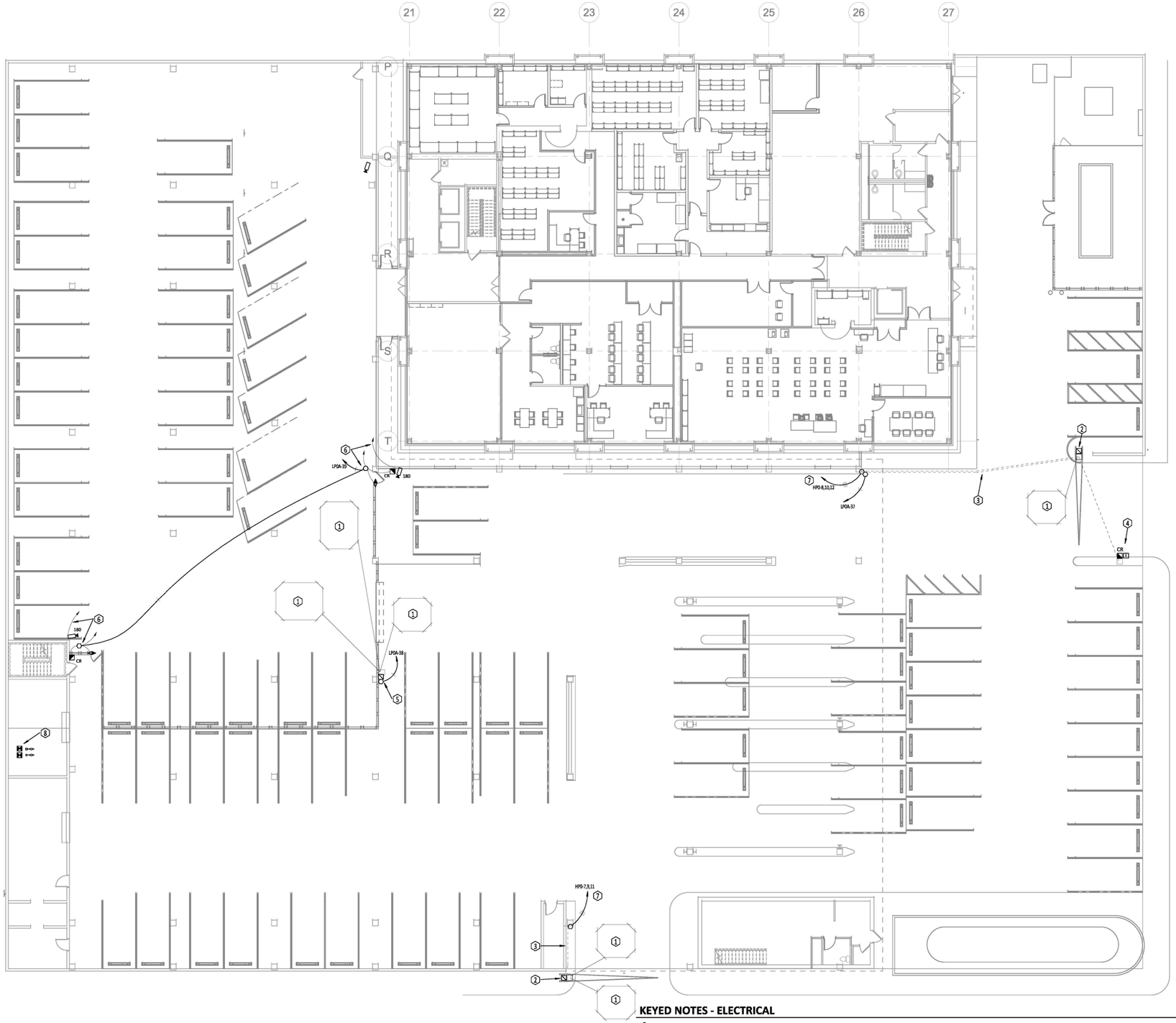
Drawing Title

FIRST LEVEL ELECTRICAL SITE PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. E100

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:49:31 PM



ELECTRICAL SITE PLAN-LOWER LEVEL

SCALE: 3/32" = 1'-0"

6' 12' 24' 48'

KEYED NOTES - ELECTRICAL

1. SAW CUT PAVEMENT 1/4" WIDE BY 2" DEEP TO INSTALL LOOP DETECTOR. LOOP DETECTOR TO BE A MAXIMUM OF 26'-0" PERIMETER, PROVIDE THREE TURNS OF LOOP WIRE PER MANUFACTURER INSTRUCTIONS
2. PROVIDE 3P-30A NON-FUSED NEMA 3R DISCONNECT SWITCH AT GATE OPERATOR AND ALL FINAL POWER CONNECTIONS GATE OPERATOR. GATE OPERATOR SHALL BE 1/2 HP 480V - 3 PHASE
3. CUT AND PATCH PAVEMENT AS REQUIRED TO ROUTE POWER AND DATA CONDUITS FROM GATE CONTROLLER TO CONCRETE COLUMN, RISE ON COLUMN AND ROUTE AT CEILING OF PARKING GARAGE, FIELD COORDINATE ALL ROUTING AND CONDITIONS
4. PROVIDE CAPXS SMART VIDEO INTERCOM ABOVE KEYPAD/PROX READER ON POST, ROUTE 2 #12 & 1 #12 GROUND IN 3/4" CONDUIT TO 1P-20A BREAKER AS SHOWN FOR VIDEO INTERCOM POWER, ROUTE LOW VOLTAGE WIRING FROM KEY PAD TO GATE ACTUATOR IN 3/4" CONDUIT
5. PROVIDE MANUAL MOTOR STARTER WITH PILOT LIGHT HIGH ON COLUMN FOR POWER DISCONNECT TO SLIDE GATE, ROUTE POWER DOWN TO GATE ACTUATOR, ROUTE 2 #12 & 1 #12 GROUND IN 3/4" CONDUIT BACK TO 1P-20A BREAKER AS SHOWN
6. DOOR ACCESS CONTROLLER, AND VIDEO SECURITY CAMERA, ROUTE CAT 6 WIRING IN 3/4" CONDUIT BACK TO ABOVE CORRIDOR CEILING OF LOWER LEVEL
7. 3 #12 & 1 #12 GROUND IN 3/4" CONDUIT ROUTED AT CEILING OF LOWER LEVEL PARKING DECK BACK TO 3P-20A CIRCUIT BREAKER AS SHOWN
8. PROVIDE NEW ADDRESSABLE FIRE ALARM MONITOR MODULES AT EXISTING DRY SPRINKLER SYSTEM FLOW AND TAMPER SWITCHES IN LOWER LEVEL OF GARAGE, FIELD VERIFY EXACT QUANTITY, ROUTE NEW ADDRESSABLE WIRING BACK TO NEW CONTROL PANEL.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

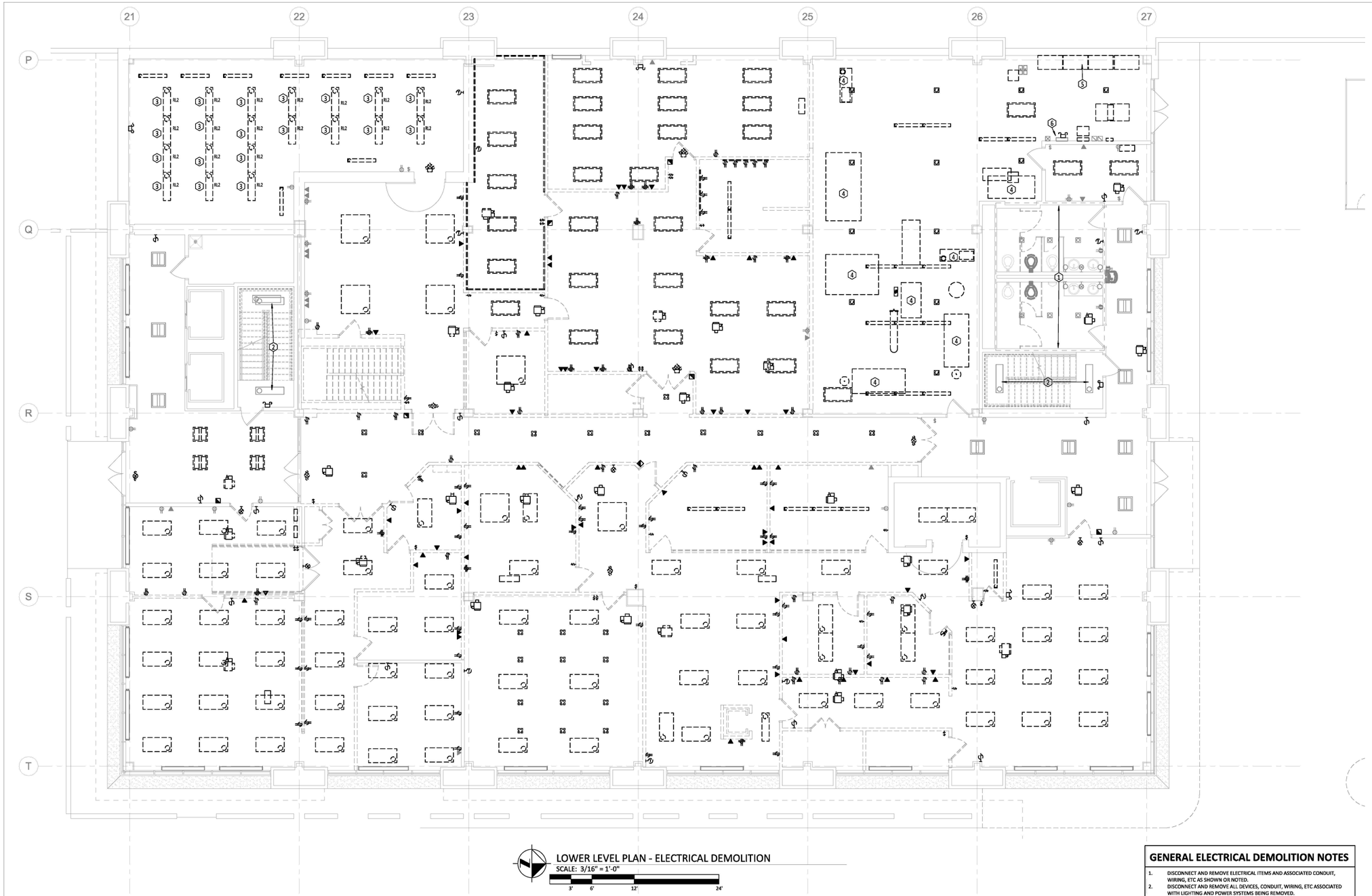
Drawing Title

LOWER LEVEL ELECTRICAL SITE PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. E101

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:49:37 PM



LOWER LEVEL PLAN - ELECTRICAL DEMOLITION

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERATING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO REMAIN, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. RECIRCUIT FIXTURES TO NEW DISTRIBUTION
3. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE RELOCATED, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. PROVIDE CHAIN HANGING KIT FOR FIXTURES AND REINSTALL IN NEW LOCATION
4. DISCONNECT AND REMOVE ALL EXISTING POWER CONNECTIONS BACK TO SOURCE ASSOCIATED WITH MECHANICAL EQUIPMENT BEING DEMOLISHED
5. DISCONNECT AND REMOVE EXISTING SWITCHBOARD, VERIFY FEEDERS AND CONDUITS TO REMAIN AND BE SWUNG OVER TO NEW SWITCHBOARD
6. EXISTING PANEL "PP0" TO REMAIN

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORDINATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES . REMOVE AND TURN OVER TO OWNER ALL ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS, AND SECURITY CAMERAS.
10. ROUGH-IN BOXES IN REMAINING WALLS SHALL BE REUSED TO THE EXTENT POSSIBLE, PROVIDE BLANK PLATES ON ALL EXISTING ROUGH-INS NOT BEING REUSED.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title

LOWER LEVEL PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ED100

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:49:43 PM

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO REMAIN, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. RECINCUIT FIXTURES TO NEW DISTRIBUTION
3. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE RELOCATED, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. PROVIDE CHAIN HANGING KIT FOR FIXTURES AND REINSTALL IN NEW LOCATION
4. EXISTING LED 2'X2' CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE REMOVED FOR CEILING REPLACEMENT. RELOCATE EXISTING FIXTURE IN NEW CEILING IN SAME LOCATION AS PREVIOUS. RECIRCUIT FIXTURES TO NEW DISTRIBUTION AS REQUIRED. VERIFY EXACT DRIVER VOLTAGE.
5. EXISTING DECORATIVE CEILING FIXTURE OR LUMINOUS CEILING AND ALL ASSOCIATED LIGHT FIXTURES ABOVE TO BE REMOVED
6. DISCONNECT AND REMOVE ALL EXISTING PANEL BOARDS, WIREWAYS, DISCONNECT SWITCHES, TRANSFORMERS, METER SOXETS, COMMUNICATIONS DEVICES ETC. FROM EXISTING ROOM. TURN OVER ALL METERS TO AMEREN. FIELD VERIFY AND COORDINATE ALL EQUIPMENT WITHIN ROOM.

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORDINATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES . REMOVE AND TURN OVER TO OWNER ALL ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS, AND SECURITY CAMERAS.
10. ROUGH-IN BOXES IN REMAINING WALLS SHALL BE REUSED TO THE EXTENT POSSIBLE, PROVIDE BLANK PLATES ON ALL EXISTING ROUGH-INS NOT BEING REUSED.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

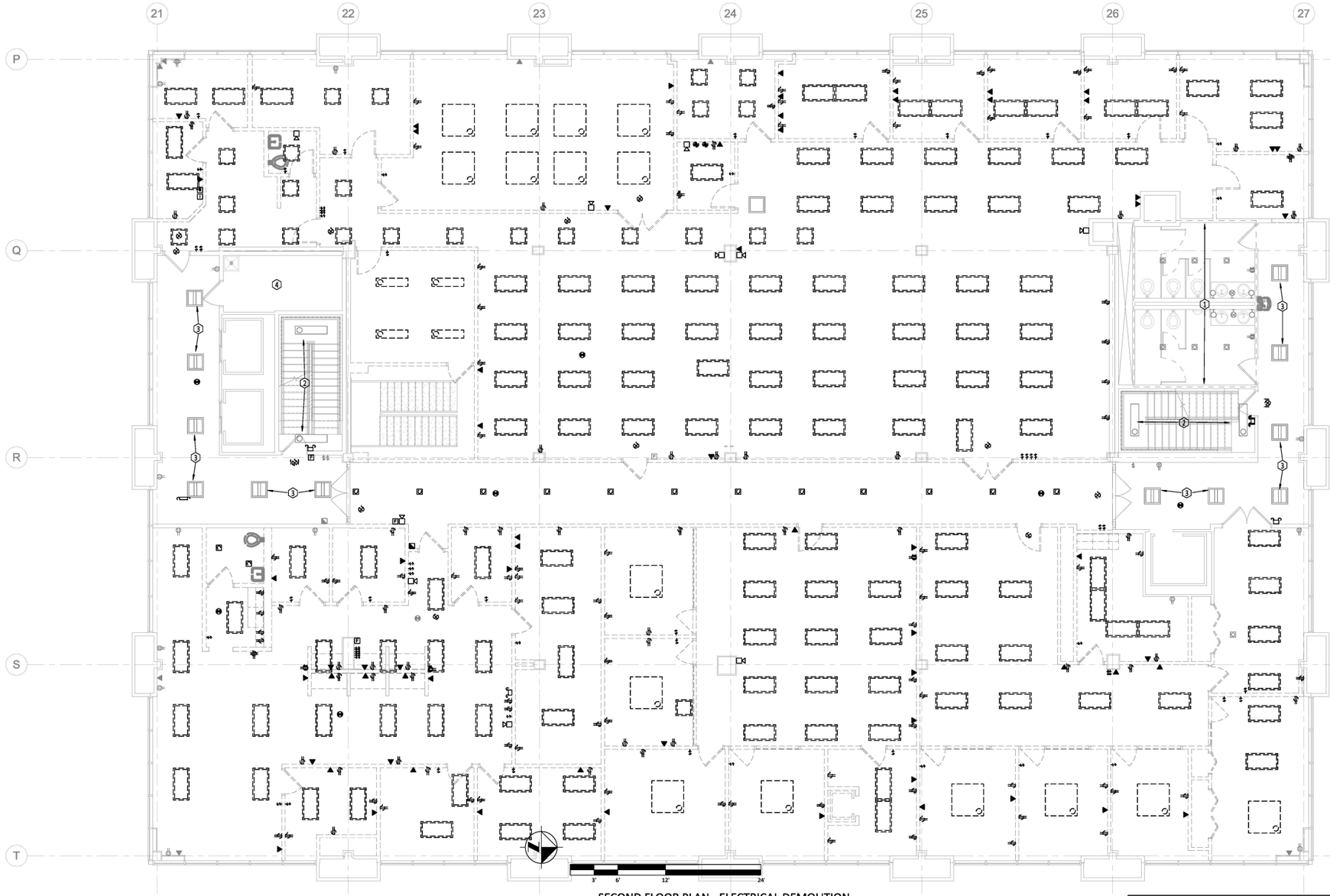
Drawing Title:

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ED101

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:49:49 PM



SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 3/16" = 1'-0"

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO REMAIN, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. RECIRCUIT FIXTURES TO NEW DISTRIBUTION
3. EXISTING LED 2'X2' CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE REMOVED FOR CEILING REPLACEMENT. RELOCATE EXISTING FIXTURE IN NEW CEILING IN SAME LOCATION AS PREVIOUS. RECIRCUIT FIXTURES TO NEW DISTRIBUTION AS REQUIRED. VERIFY EXACT DRIVER VOLTAGE.
4. DISCONNECT AND REMOVE ALL EXISTING PANEL BOARDS, WIREWAYS, DISCONNECT SWITCHES, TRANSFORMERS, METER SOKETS, ETC. FROM EXISTING ROOM. TURN OVER ALL METERS TO AMEREN. FIELD VERIFY AND COORDINATE ALL EQUIPMENT WITHIN ROOM.

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORDINATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES . REMOVE AND TURN OVER TO OWNER ALL ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS, AND SECURITY CAMERAS.
10. ROUGH-IN BOXES IN REMAINING WALLS SHALL BE REUSED TO THE EXTENT POSSIBLE, PROVIDE BLANK PLATES ON ALL EXISTING ROUGH-INS NOT BEING REUSED.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title:

SECOND FLOOR PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: ED102

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:49:55 PM

THIRD FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 3/16" = 1'-0"
3' 0' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO REMAIN, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. RECIRCUIT FIXTURES TO NEW DISTRIBUTION
3. EXISTING LED 2'X2' CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE REMOVED FOR CEILING REPLACEMENT. RELOCATE EXISTING FIXTURE IN NEW CEILING IN SAME LOCATION AS PREVIOUS. RECIRCUIT FIXTURES TO NEW DISTRIBUTION AS REQUIRED. VERIFY EXACT DRIVER VOLTAGE.
4. DISCONNECT AND REMOVE ALL EXISTING PANEL BOARDS, WIREWAYS, DISCONNECT SWITCHES, TRANSFORMERS, METER SOKETS, ETC. FROM EXISTING ROOM. TURN OVER ALL METERS TO AMEREN. FIELD VERIFY AND COORDINATE ALL EQUIPMENT WITHIN ROOM.

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORDINATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES . REMOVE AND TURN OVER TO OWNER ALL ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS, AND SECURITY CAMERAS.
10. ROUGH-IN BOXES IN REMAINING WALLS SHALL BE REUSED TO THE EXTENT POSSIBLE, PROVIDE BLANK PLATES ON ALL EXISTING ROUGH-INS NOT BEING REUSED.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title:

THIRD FLOOR PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ED103

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:50:01 PM

FOURTH FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO REMAIN, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. RECIRCUIT FIXTURES TO NEW DISTRIBUTION
3. EXISTING LED 2'X2' CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE REMOVED FOR CEILING REPLACEMENT. RELOCATE EXISTING FIXTURE IN NEW CEILING IN SAME LOCATION AS PREVIOUS. RECIRCUIT FIXTURES TO NEW DISTRIBUTION AS REQUIRED. VERIFY EXACT DRIVER VOLTAGE.
4. DISCONNECT AND REMOVE ALL EXISTING PANEL BOARDS, WIREWAYS, DISCONNECT SWITCHES, TRANSFORMERS, METER SOKETS, ETC. FROM EXISTING ROOM. TURN OVER ALL METERS TO AMEREN. FIELD VERIFY AND COORDINATE ALL EQUIPMENT WITHIN ROOM.

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORD/NATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES . REMOVE AND TURN OVER TO OWNER ALL ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS, AND SECURITY CAMERAS.
10. ROUGH-IN BOXES IN REMAINING WALLS SHALL BE REUSED TO THE EXTENT POSSIBLE, PROVIDE BLANK PLATES ON ALL EXISTING ROUGH-INS NOT BEING REUSED.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

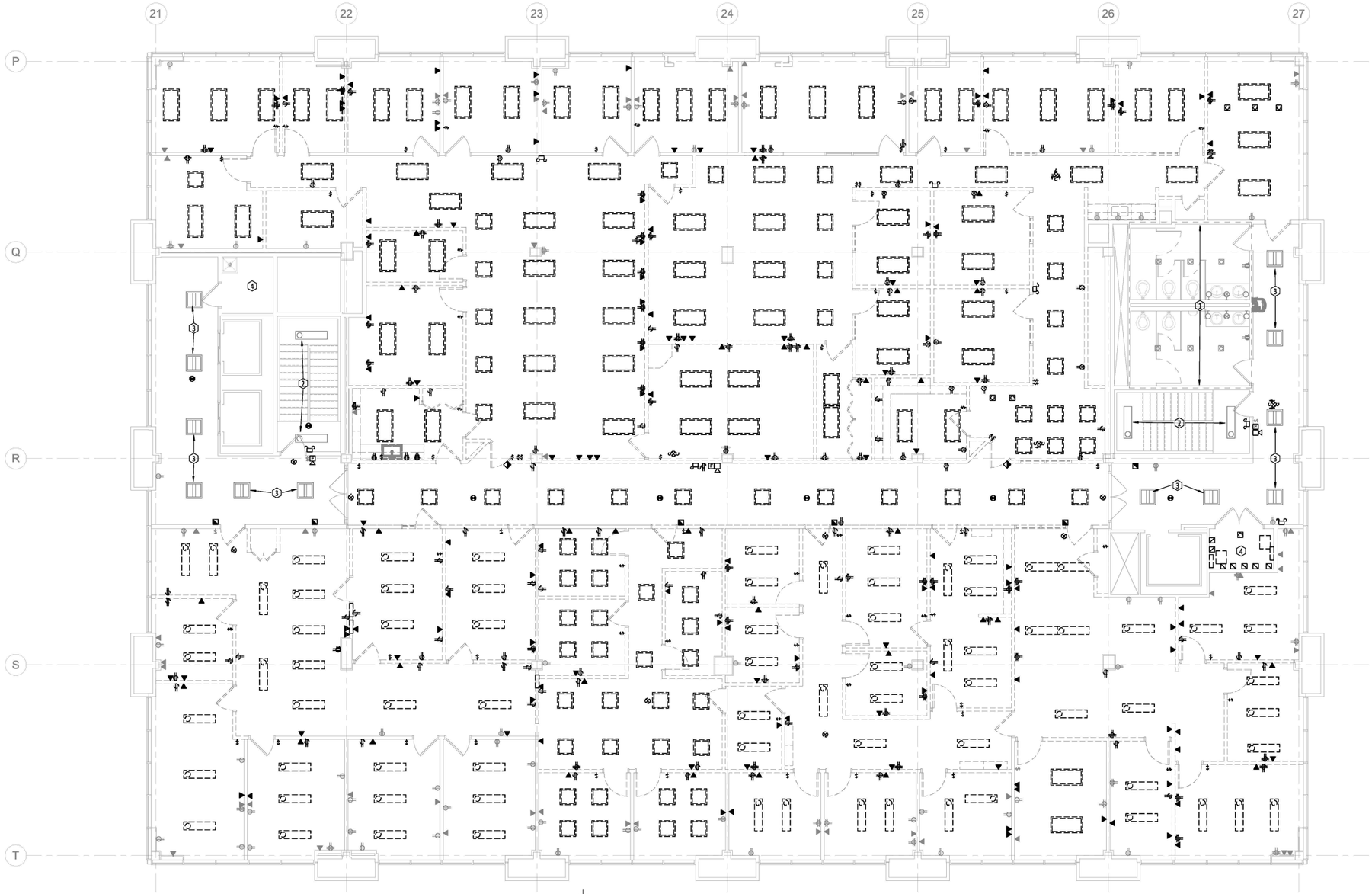
Drawing Title:

FOURTH FLOOR PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: ED104

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:56:06 PM



FIFTH FLOOR PLAN - ELECTRICAL DEMOLITION

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING FLUORESENT CEILING MOUNTED LIGHT FIXTURES THIS AREA TO REMAIN, CONTRACTOR TO OBTAIN BYPASS TYPE LED RETROFIT TUBES FROM OWNER AND INSTALL AS REQUIRED. RECIRCUIT FIXTURES TO NEW DISTRIBUTION
3. EXISTING LED 2'X2' CEILING MOUNTED LIGHT FIXTURES THIS AREA TO BE REMOVED FOR CEILING REPLACEMENT. RELOCATE EXISTING FIXTURE IN NEW CEILING IN SAME LOCATION AS PREVIOUS. RECIRCUIT FIXTURES TO NEW DISTRIBUTION AS REQUIRED. VERIFY EXACT DRIVER VOLTAGE.
4. DISCONNECT AND REMOVE ALL EXISTING PANEL BOARDS, WIREWAYS, DISCONNECT SWITCHES, TRANSFORMERS, METER SOKETS, ETC. FROM EXISTING ROOM. TURN OVER ALL METERS TO AMEREN. FIELD VERIFY AND COORDINATE ALL EQUIPMENT WITHIN ROOM.

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORDINATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES . REMOVE AND TURN OVER TO OWNER ALL ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS, AND SECURITY CAMERAS.
10. ROUGH-IN BOXES IN REMAINING WALLS SHALL BE REUSED TO THE EXTENT POSSIBLE, PROVIDE BLANK PLATES ON ALL EXISTING ROUGH-INS NOT BEING REUSED.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

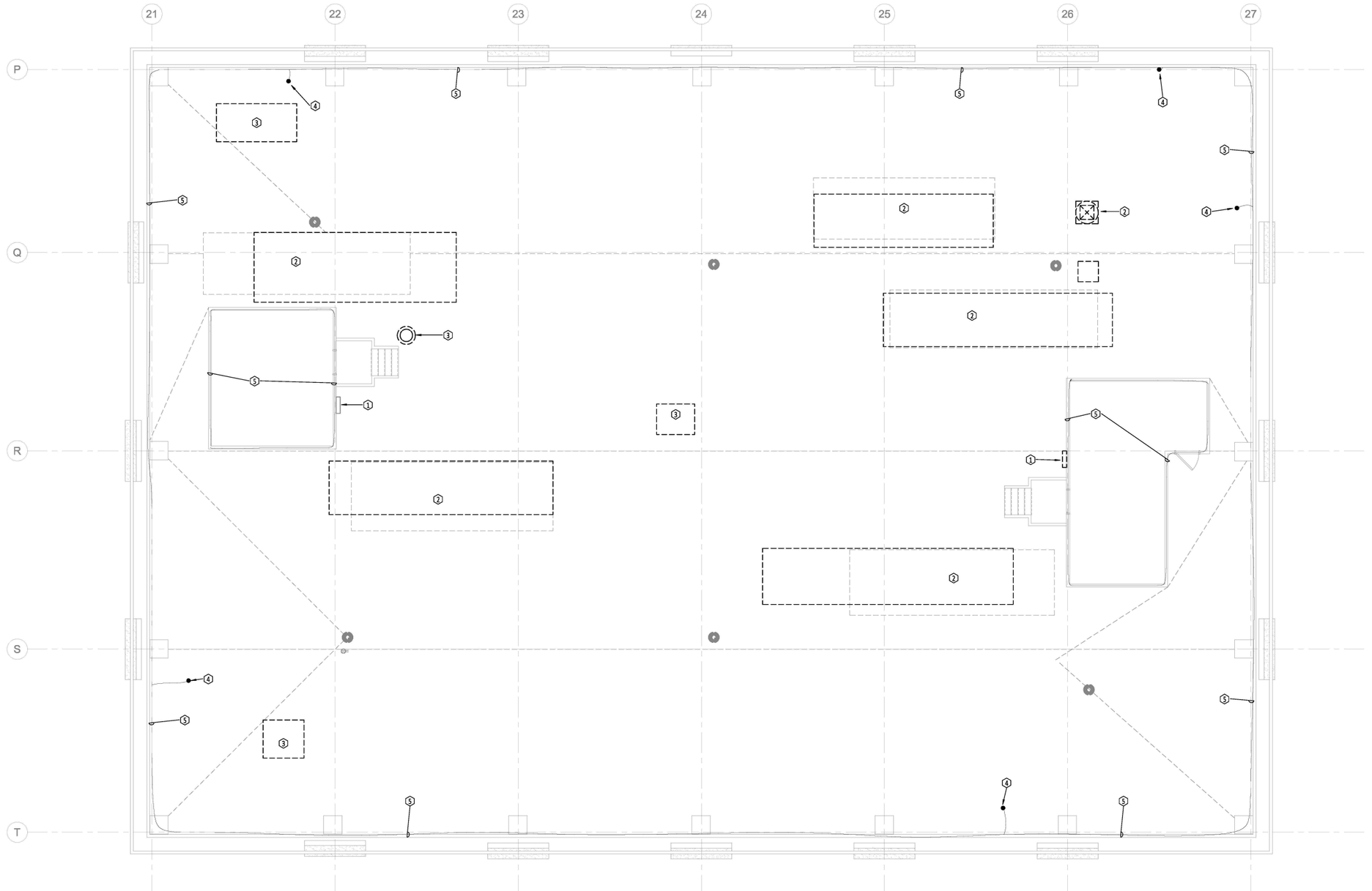
102 E. Main St., Urbana, IL 61801

Drawing Title

FIFTH FLOOR PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ED105



ROOF PLAN - ELECTRICAL DEMOLITION
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL, CONDUIT AND FEEDER TO REMAIN FOR RECONNECTION TO NEW PANEL. REMOVE ALL METERS AND TURN OVER TO AMEREN.
2. DISCONNECT AND REMOVE POWER CONNECTIONS TO EXISTING MECHANICAL UNIT, FIELD VERIFY EXACT CONDUIT SIZE AND TERMINATION LOCATION ON UNIT , REUSE IN PLACE AS POSSIBLE FOR NEW UNIT.
3. DISCONNECT AND REMOVE ALL POWER CONNECTIONS TO EXISTING MECHANICAL UNIT . REMOVE ALL CONDUIT AND WIRE BACK TO SOURCE
4. EXISTING LIGHTNING PROTECTION DOWN CONDUCTORS TO REMAIN
5. EXISTING LIGHTNING PROTECTION ROOF RING TO REMAIN, REMOVE ALL AIR TERMINALS AND REPLACE WITH NEW, REMOVE ALL ROOF ATTACHMENTS FOR ROOF REPLACEMENT AND PROVIDE NEW UPON ROOF COMPLETION

GENERAL ELECTRICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ELECTRICAL ITEMS AND ASSOCIATED CONDUIT, WIRING, ETC AS SHOWN OR NOTED.
2. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH LIGHTING AND POWER SYSTEMS BEING REMOVED.
3. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED.
4. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT, WIRING, ETC IN OR ON THE WALLS, CEILING, ETC TO BE REMOVED. VERIFY ALL OCCURRENCES NOT SPECIFICALLY SHOWN OR NOTED ON PLANS.
5. BE RESPONSIBLE FOR CONTINUITY OF ALL EXISTING POWER AND LIGHTING CIRCUITS AND SYSTEMS OF ALL REMAINING DEVICES AND SYSTEMS WHICH MAY BE AFFECTED BY REMODELING.
6. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE DEFUNCT CIRCUIT WIRING BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
7. FOR EACH ITEM DISCONNECTED AND REMOVED, DISCONNECT AND REMOVE ABANDONED, EXPOSED CONDUITS, AND/OR CONDUITS MADE EXPOSED BY DEMOLITION, BACK TO NEXT ACTIVE REMAINING DEVICE OR TO PANEL OR SWITCHBOARD FROM WHICH THE CIRCUIT ORIGINATES.
8. EXCEPT WHERE OTHERWISE NOTED, ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, CONDUCTORS, FIXTURES, AND ASSOCIATED ITEMS SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
9. CO-ORDINATE DISCONNECTION AND REMOVAL OF EXISTING DOOR ACCESS AND SECURITY DEVICES WITH THE GENERAL TRADE. REMOVE AND STORE ELECTRICAL DOOR DEVICES SUCH AS CARD READERS, POWER SUPPLIES, POSITION SWITCHES, SENSORS ETC, FOR REUSE AS SHOWN ON NEW WORK PLANS.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

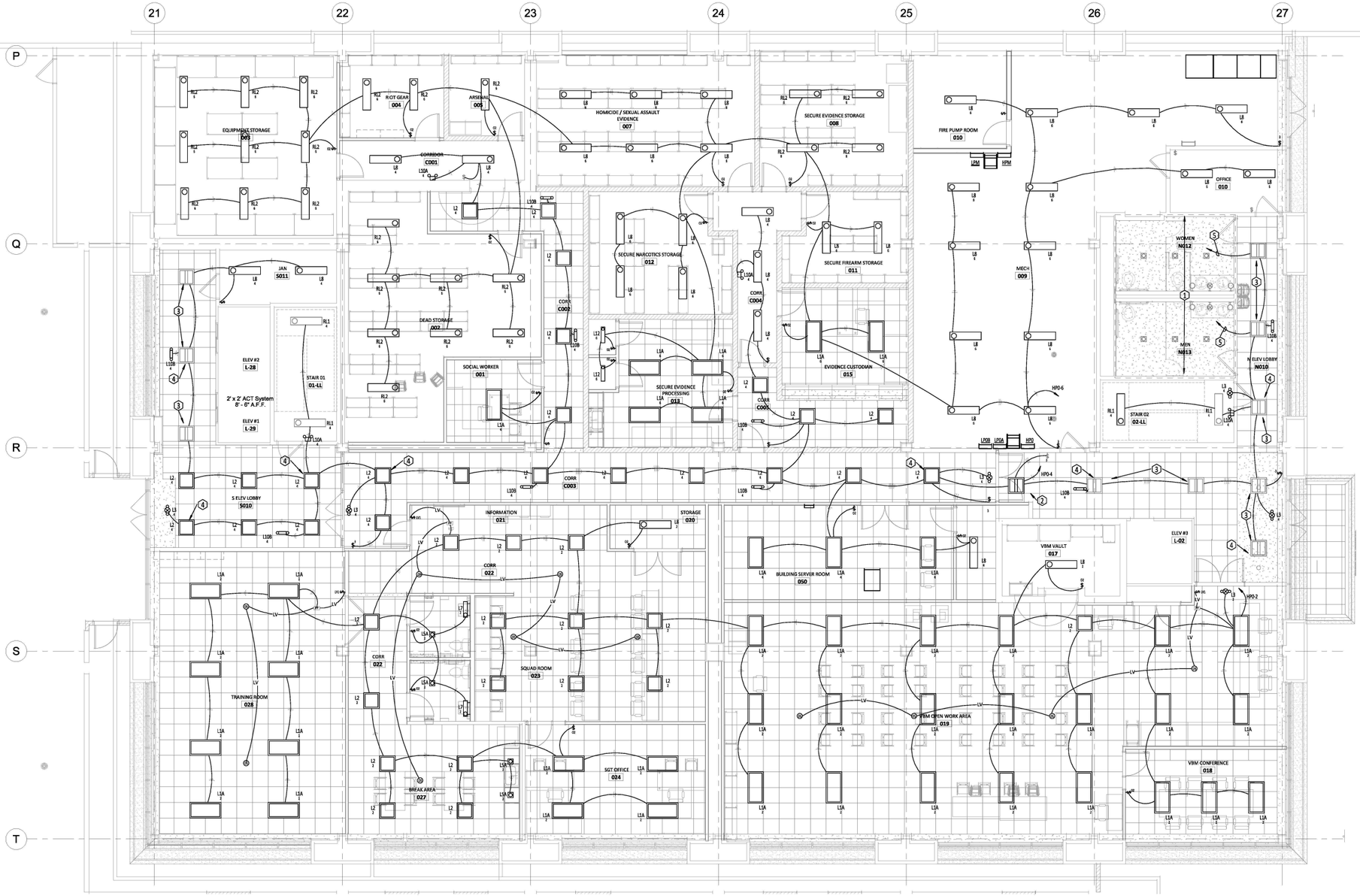
Drawing Title

ROOF PLAN - ELECTRICAL DEMOLITION

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ED106

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:50:17 PM



LOWER LEVEL - LIGHTING
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING DIRECT/INDIRECT TYPE 2X2 FIXTURE RELOCATED FROM SOUTH LOBBY
3. EXISTING 2'X2' LED LIGHT FIXTURE THIS AREA TO REMAIN, RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
4. CIRCUIT FIXTURE FOR NON-SWITCHED 24 HOUR OPERATION.
5. RECIRCUIT EXISTING BATHROOM FIXTURES ON NEW NON-SWITCHED CIRCUIT SERVING CORRIDOR/LOBBY FIXTURES.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

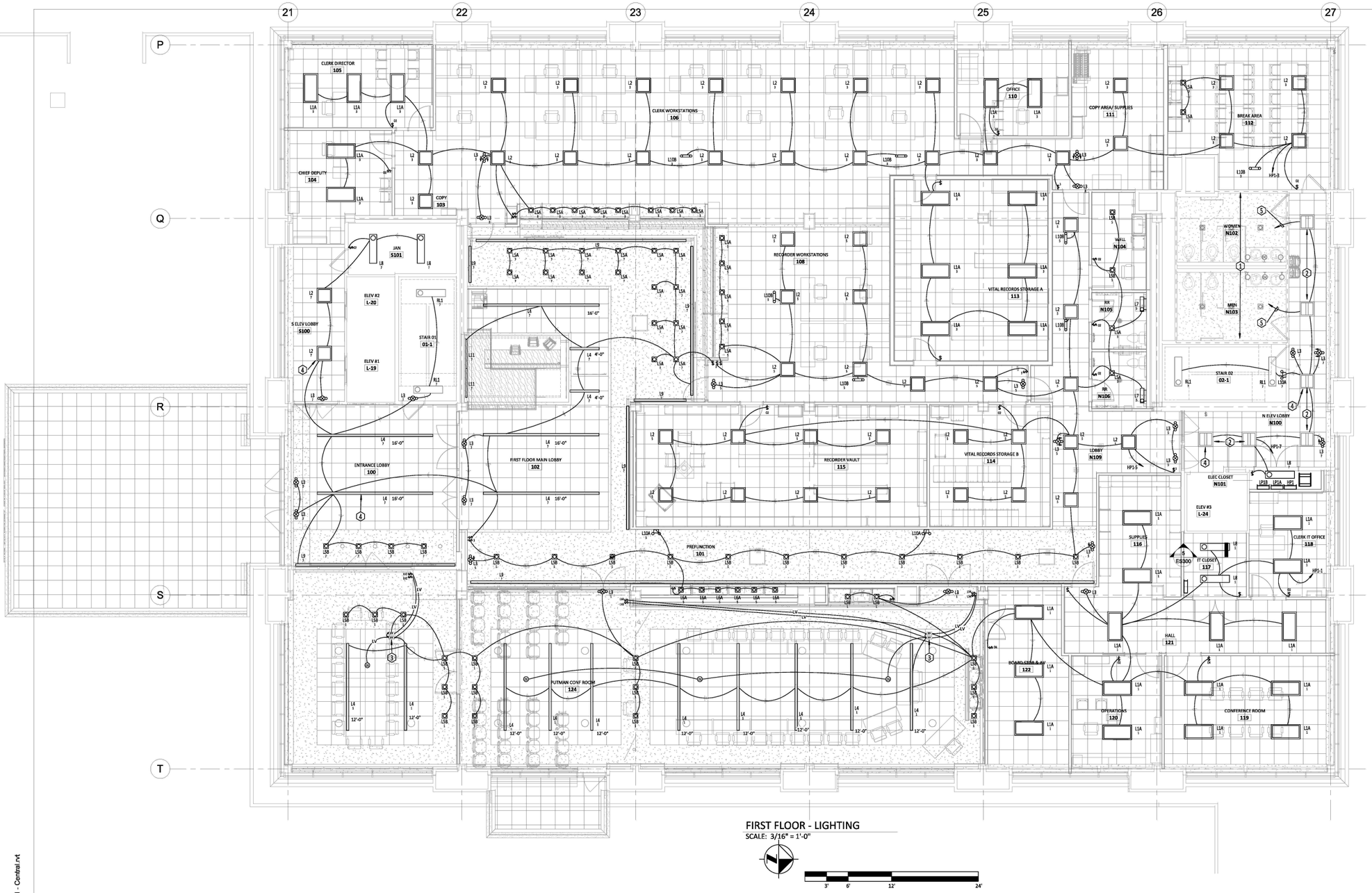
Drawing Title

LOWER LEVEL LIGHTING PLAN

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: EL100

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:50:25 PM



FIRST FLOOR - LIGHTING
SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING 2'X2' LED LIGHT FIXTURE THIS AREA TO REMAIN, RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
3. PROVIDE DIMMING POWER PACK ABOVE ACCESSIBLE CEILING, PROVIDE ALL FINAL LINE, LOAD AND LOW VOLTAGE CONNECTIONS AS REQUIRED. ONE POWER PACK SHALL SERVE ALL SLOT TYPE FIXTURES AND THE OTHER SHALL SERVE DOWN LIGHTS IN ROOM
4. CIRCUIT FIXTURE FOR NON-SWITCHED 24 HOUR OPERATION.
5. RECIRCUIT EXISTING BATHROOM FIXTURES ON NEW NON-SWITCHED CIRCUIT SERVING CORRIDOR/LOBBY FIXTURES.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

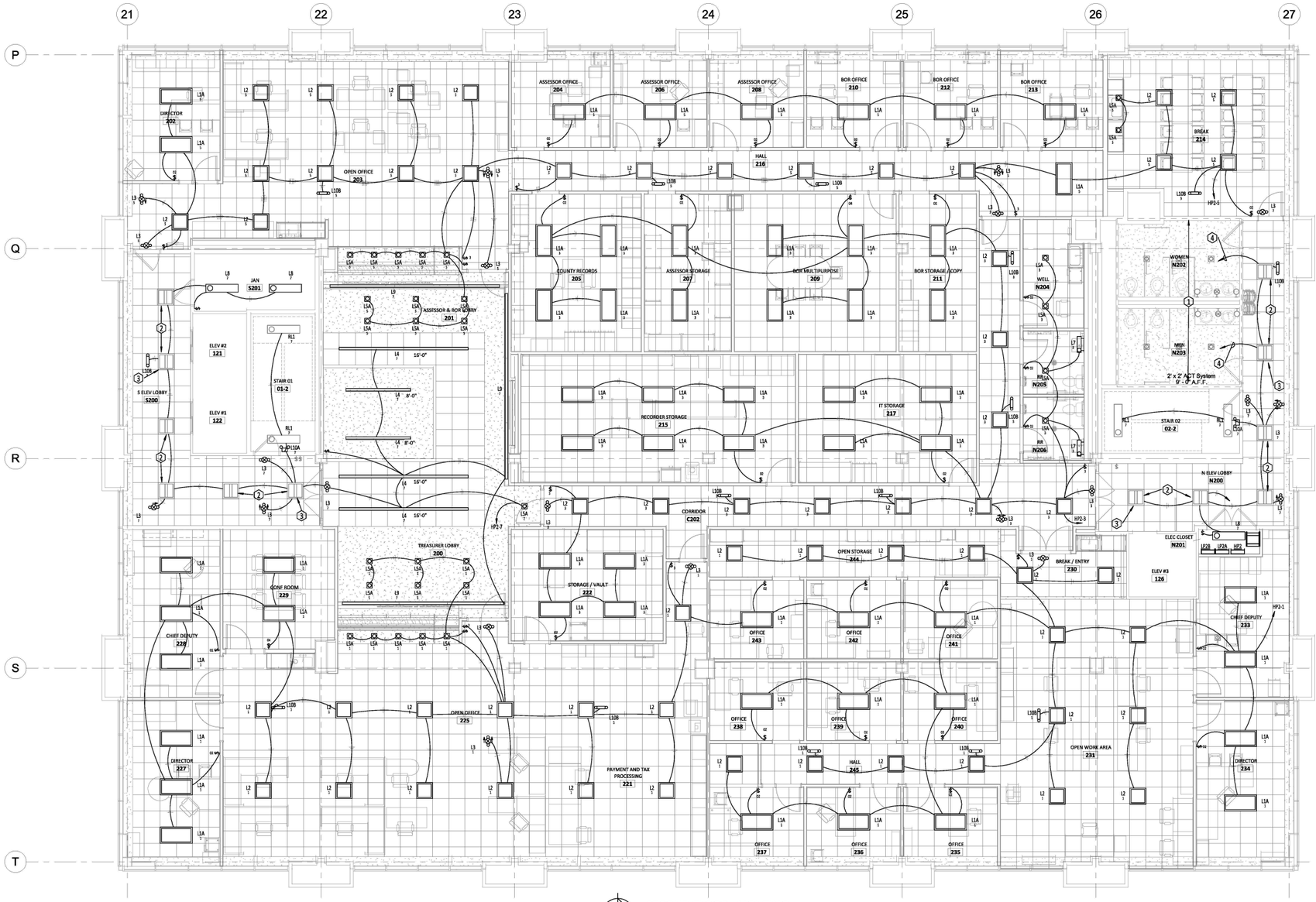
102 E. Main St., Urbana, IL 61801

Drawing Title

FIRST FLOOR LIGHTING PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EL101



SECOND FLOOR - LIGHTING

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING 2'X2' LED LIGHT FIXTURE THIS AREA TO REMAIN, RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
3. CIRCUIT FIXTURE FOR NON-SWITCHED 24 HOUR OPERATION.
4. RECIRCUIT EXISTING BATHROOM FIXTURES ON NEW NON-SWITCHED CIRCUIT SERVING CORRIDOR/LOBBY FIXTURES.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

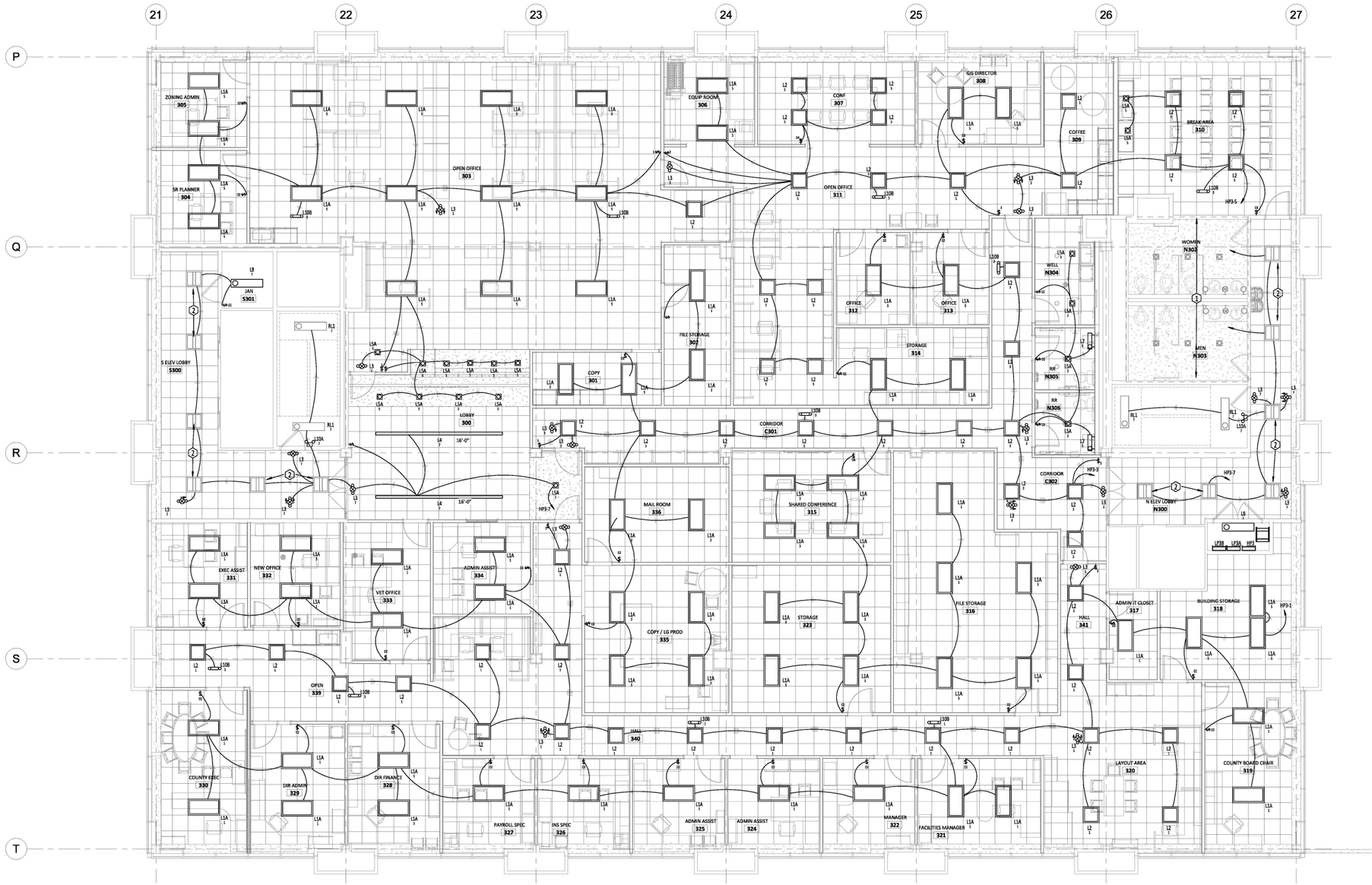
102 E. Main St., Urbana, IL 61801

Drawing Title

SECOND FLOOR LIGHTING PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EL102



THIRD FLOOR - LIGHTING
SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING 2'X2' LED LIGHT FIXTURE THIS AREA TO REMAIN, RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

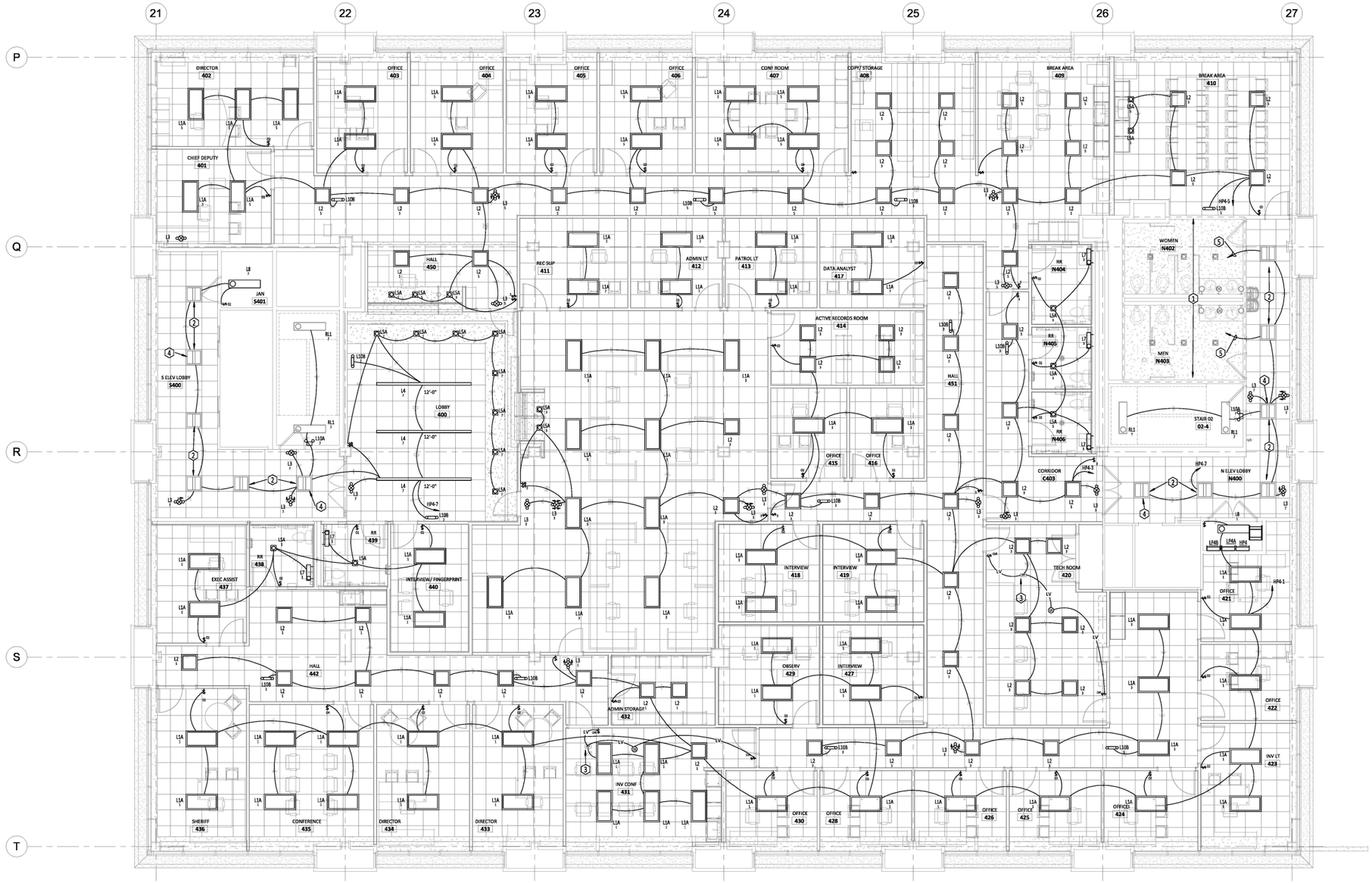
Drawing Title

THIRD FLOOR LIGHTING PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EL103

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:50:48 PM



FOURTH FLOOR - LIGHTING
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING 2'X2' LED LIGHT FIXTURE THIS AREA TO REMAIN, RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
3. PROVIDE DIMMING POWER PACK ABOVE ACCESSIBLE CEILING, PROVIDE ALL FINAL LINE, LOAD AND LOW VOLTAGE CONNECTIONS AS REQUIRED.
4. CIRCUIT FIXTURE FOR NON-SWITCHED 24 HOUR OPERATION.
5. RECIRCUIT EXISTING BATHROOM FIXTURES ON NEW NON-SWITCHED CIRCUIT SERVING CORRIDOR/LOBBY FIXTURES.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

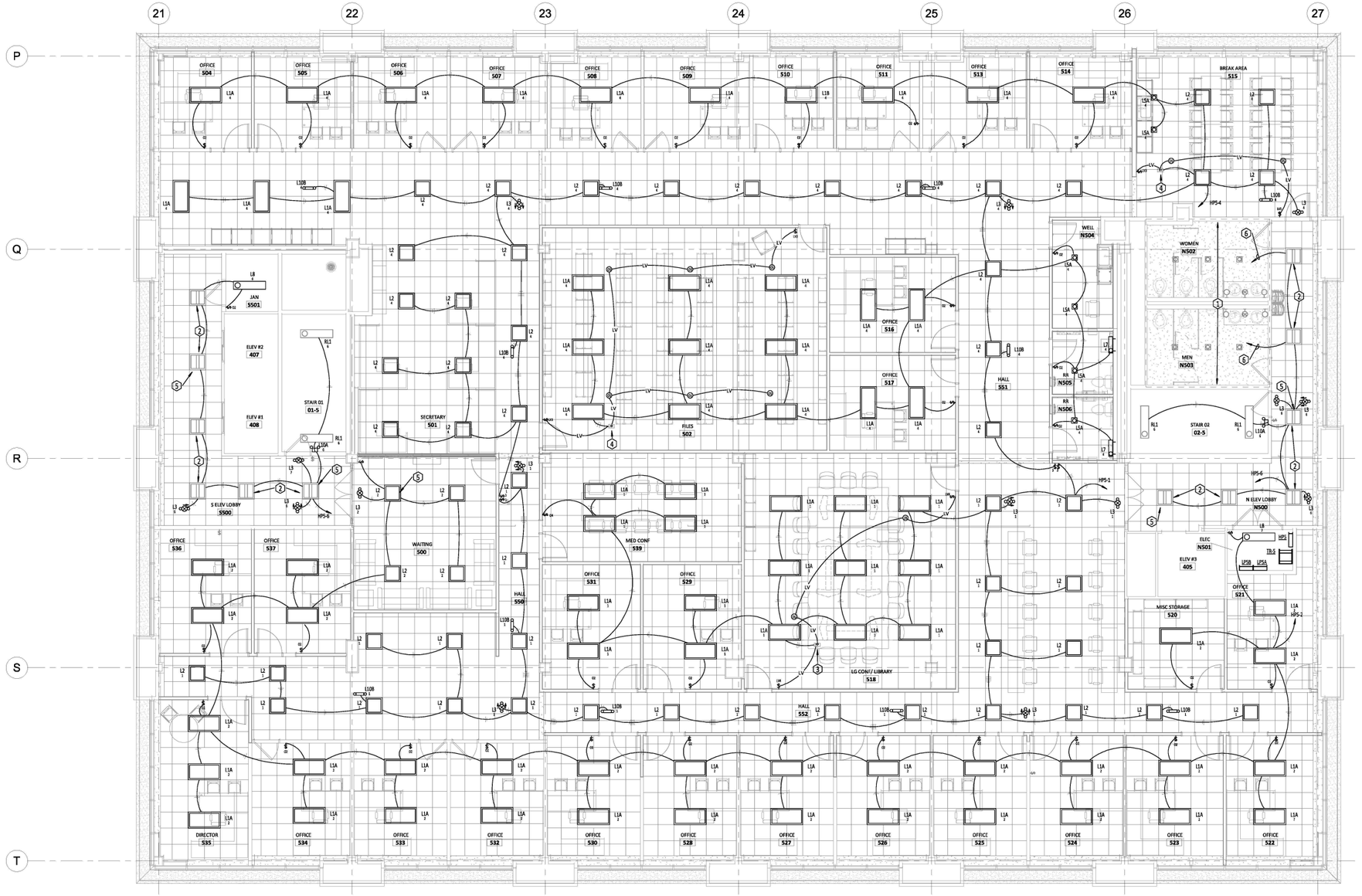
Drawing Title

FOURTH FLOOR LIGHTING PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EL104

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:50:55 PM



FIFTH FLOOR - LIGHTING

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. ALL EXISTING LIGHT FIXTURES, CONTROLS, ELECTRICAL DEVICES, ETC. TO REMAIN THIS AREA. VERIFY OPERAITING VOLTAGE AND RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
2. EXISTING 2'X2' LED LIGHT FIXTURE THIS AREA TO REMAIN, RECIRCUIT TO NEW DISTRIBUTION AS REQUIRED
3. PROVIDE DIMMING POWER PACK ABOVE ACCESSIBLE CEILING, PROVIDE ALL FINAL LINE, LOAD AND LOW VOLTAGE CONNECTIONS AS REQUIRED.
4. PROVIDE NON-DIMMING POWER PACK ABOVE ACCESSIBLE CEILING, PROVIDE ALL FINAL LINE, LOAD AND LOW VOLTAGE CONNECTIONS AS REQUIRED.
5. CIRCUIT FIXTURE FOR NON-SWITCHED 24 HOUR OPERATION.
6. RECIRCUIT EXISTING BATHROOM FIXTURES ON NEW NON-SWITCHED CIRCUIT SERVING CORRIDOR/LOBBY FIXTURES.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

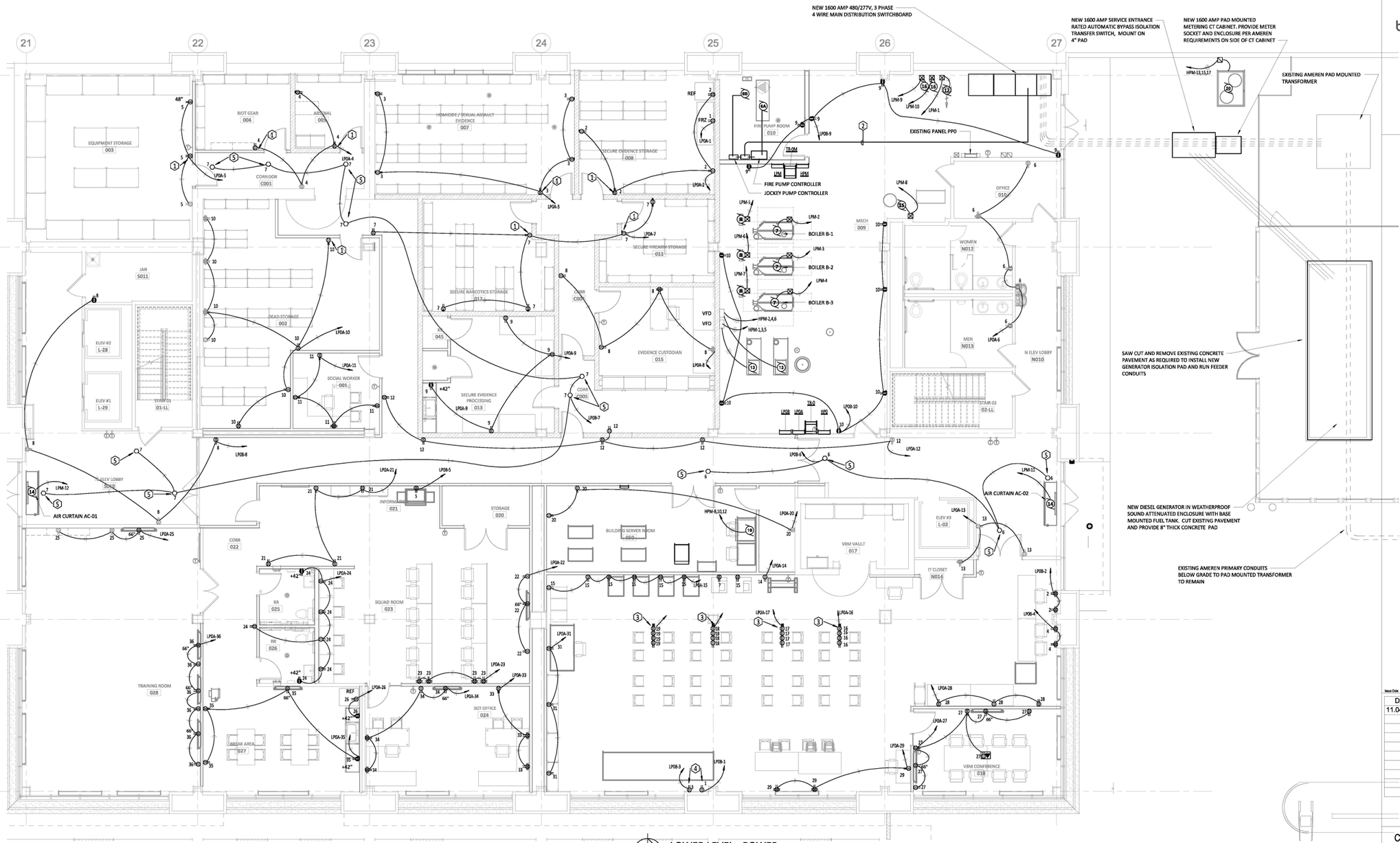
102 E. Main St., Urbana, IL 61801

Drawing Title

FIFTH FLOOR LIGHTING PLAN

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: EL105



KEYED NOTES - ELECTRICAL

1. MOUNT DUPLEX RECEPTACLE TOGETHER WITH LIGHT SWITCH AT 48" A.F.F.
2. PROVIDE 3 #1 & 1 #6 GROUND IN 1 1/2" 2-HOUR FIRE RATED PHENOLIC CONDUIT SYSTEM (ATKORE FIRE COMPOSITES OR EQUAL) FROM 600A MAIN (1 OF 2) BREAKER IN DEDICATED VERTICAL SECTION OF SWITCHBOARD. ROUTE TO TAP BOX ABOVE FIRE PUMP AND JOCKEY PUMP CONTROLLERS.
3. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS . PROVIDE DEVICES AS SHOWN
4. PROVIDE DEDICATED NEMA 5-20R DUPLEX RECEPTACLES FOR AGILIS ELECTION EQUIPMENT.
5. PROVIDE FINAL POWER CONNECTIONS TO DOOR ACCESS CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM
1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

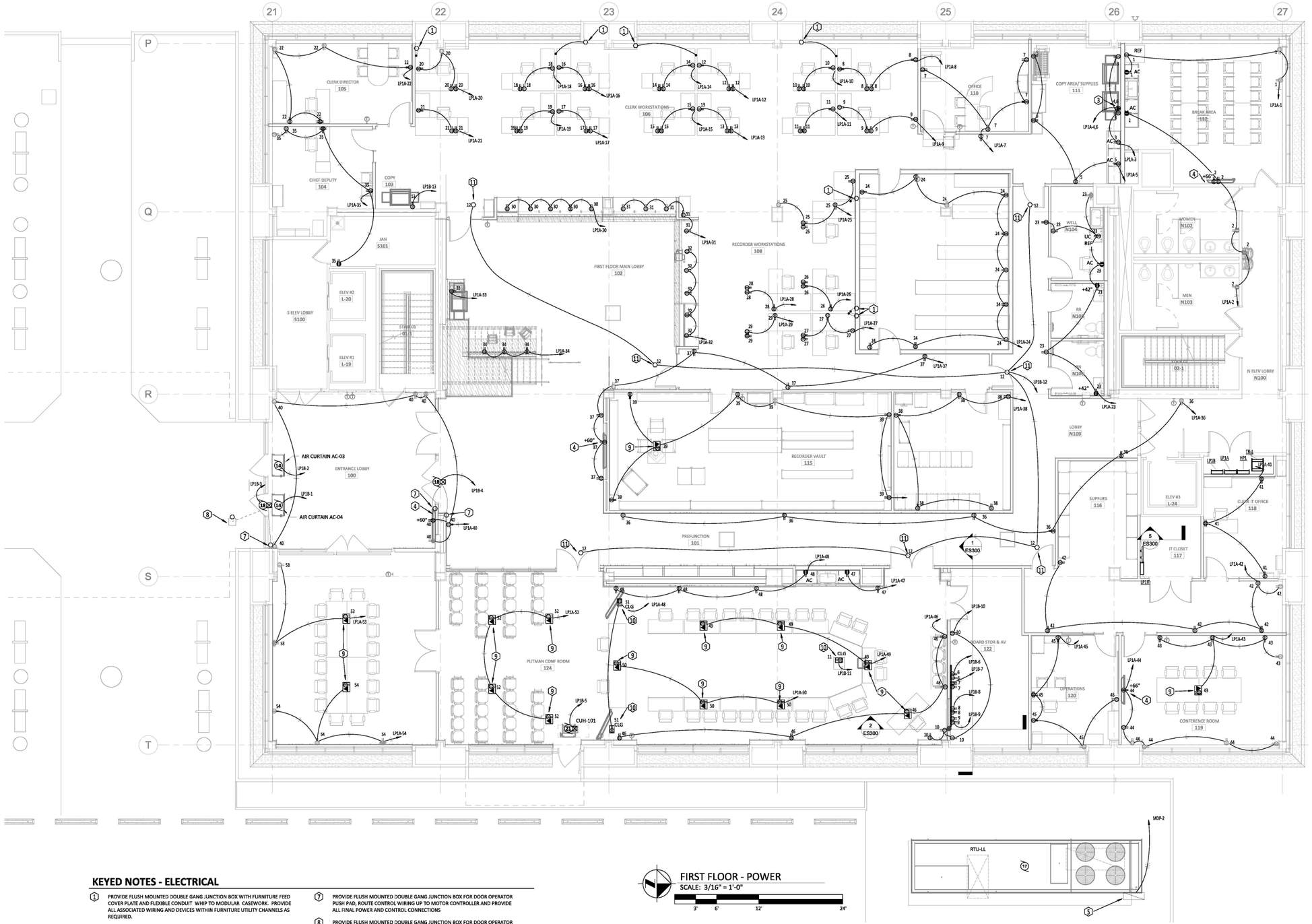
Drawing Title:

LOWER LEVEL POWER PLAN

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: EP100

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:51:10 PM



KEYED NOTES - ELECTRICAL

1. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX WITH FURNITURE FEED COVER PLATE AND FLEXIBLE CONDUIT WHIP TO MODULAR CASEWORK. PROVIDE ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
2. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS FEEDS TO MODULAR ISLAND CASEWORK. PROVIDE FLEXIBLE CONDUIT WHIP ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
3. PROVIDE NEMA 6-20R DEDICATED 208V RECEPTACLE FOR LARGE COPIER, ROUTE 2 #12 & 1 #12 GROUND IN 3/4" CONDUIT TO PANEL AS SHOWN.
4. PROVIDE RECEPTACLE IN FLUSH WALL MOUNTED FLAT PANEL/DISPLAY BOX BEHIND MONITOR APPROX. 66" A.F.F., SEE DETAIL 3/ES300 . CIRCUIT AS SHOWN
5. PROVIDE FINAL POWER CONNECTIONS TO DISCONNECT SWITCH FURNISHED INTEGRAL WITH UNIT BY UNIT MANUFACTURER
6. DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTS FURNISHED INTEGRAL WITH UNIT BY MANUFACTURER, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULE AT EACH DECTOR AND ALL ASSOCIATED CONTROL WIRING. UNIT SHALL BE CONFIGURED TO SHUT DOWN UPON DETECTION OF SMOKE BY EITHER DETECTOR
7. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX FOR DOOR OPERATOR PUSH PAD, ROUTE CONTROL WIRING UP TO MOTOR CONTROLLER AND PROVIDE ALL FINAL POWER AND CONTROL CONNECTIONS
8. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX FOR DOOR OPERATOR PUSH PAD, MOUNT ON FREE STANDING PEDESTAL. ROUTE CONTROL WIRING DOWN THRU DECK SLAP TO LOWER LEVEL AND RISE UP TO MOTOR CONTROLLER IN NEW WALL, PROVIDE ALL FINAL POWER AND CONTROL CONNECTIONS. DRILL AND SEAL ALL PENETRATIONS
9. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX (TYPICAL FOR ALL BOXES). CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, PROVIDE DEVICES AS SHOWN.
10. PROVIDE DUPLEX RECEPTACLE FLUSH IN CEILING FOR PROJECTOR AND MONITORS.
11. PROVIDE FINAL POWER CONNECTIONS TO DOOR ACCESS CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING

FIRST FLOOR - POWER
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM
1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

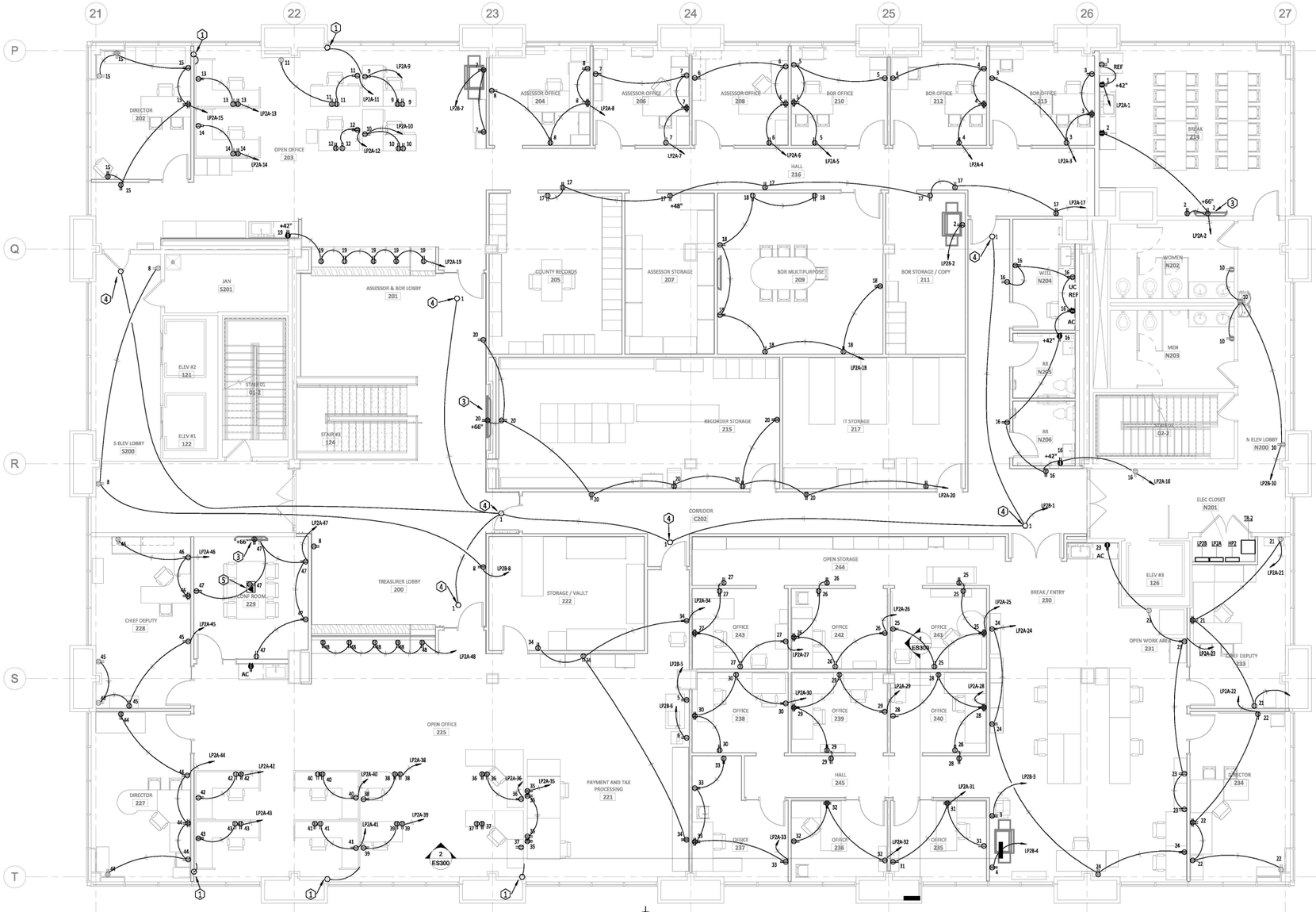
Drawing Title:

FIRST FLOOR POWER PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EP101

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 7:51:18 PM



SECOND FLOOR - POWER
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX WITH FURNITURE FEED COVER PLATE AND FLEXIBLE CONDUIT WHIP TO MODULAR CASEWORK. PROVIDE ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
2. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS FEEDS TO MODULAR ISLAND CASEWORK. PROVIDE FLEXIBLE CONDUIT WHIP ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
3. PROVIDE RECEPTACLE IN FLUSH WALL MOUNTED FLAT PANEL/DISPLAY BOX BEHIND MONITOR APPROX. 66" A.F.F., SEE DETAIL 3/ES300 . CIRCUIT AS SHOWN
4. PROVIDE FINAL POWER CONNECTIONS TO DOOR ACCESS CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING
5. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX (TYPICAL FOR ALL BOXES). CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, PROVIDE DEVICES AS SHOWN.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

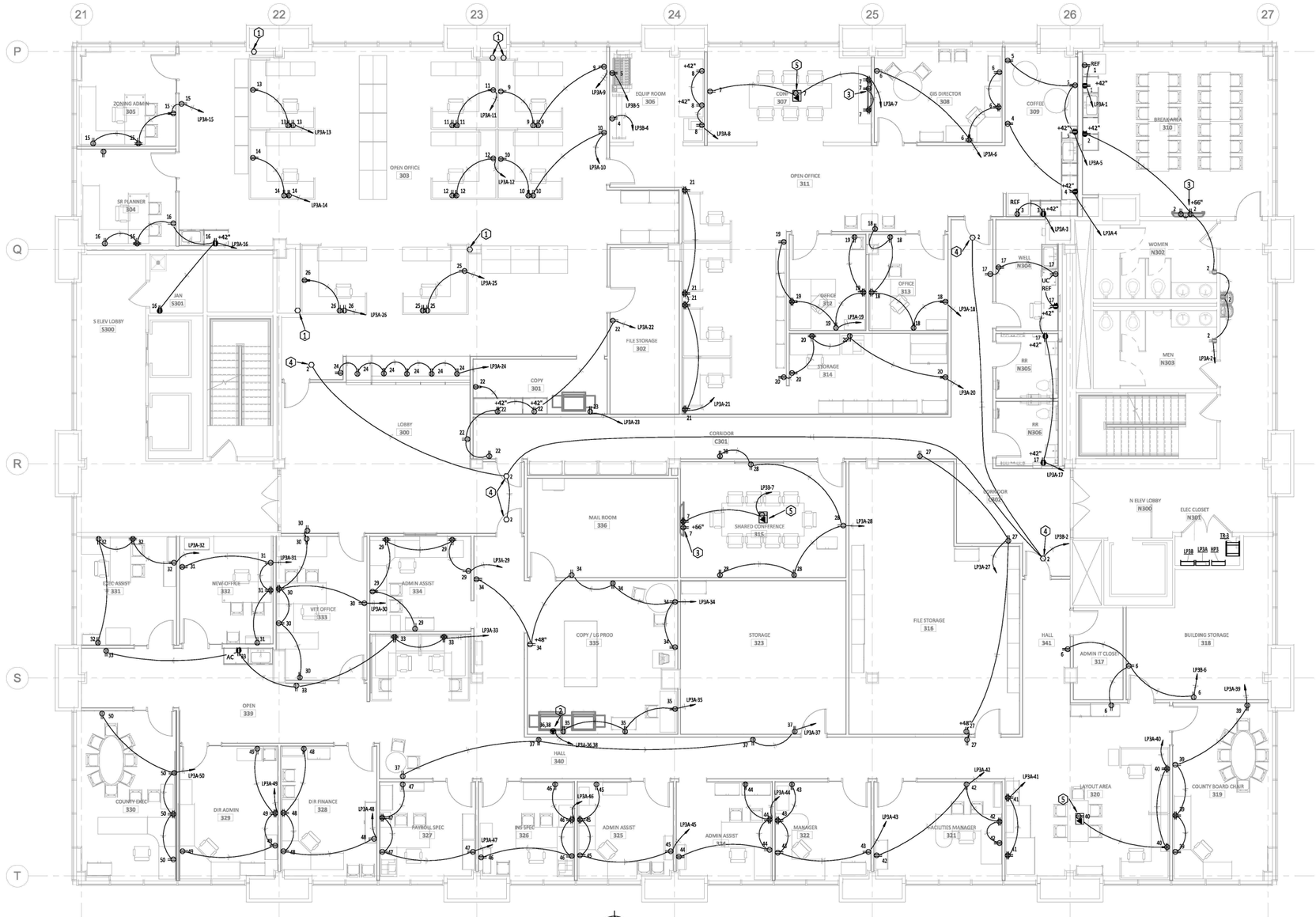
102 E. Main St., Urbana, IL 61801

Drawing Title:

SECOND FLOOR POWER PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EP102



THIRD FLOOR - POWER
SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX WITH FURNITURE FEED COVER PLATE AND FLEXIBLE CONDUIT WHIP TO MODULAR CASEWORK. PROVIDE ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
2. PROVIDE NEMA 6-20R DEDICATED 208V RECEPTACLE FOR LARGE COPIER, ROUTE 2 #12 & 1 #12 GROUND IN 3/4" CONDUIT TO PANEL AS SHOWN.
3. PROVIDE NETWORK OUTLET AND DUPLEX RECEPTACLE IN PAC BOX BEHIND MONITOR, MOUNT APPROX 66" A.F.F. COORDINATE EXACT HEIGHT WITH ARCH. ELEVATIONS. SEE DETAIL ON SHEET ES300.
4. PROVIDE FINAL POWER CONNECTIONS TO DOOR ACCESS CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING
5. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX (TYPICAL FOR ALL BOXES). CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, PROVIDE DEVICES AS SHOWN.

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

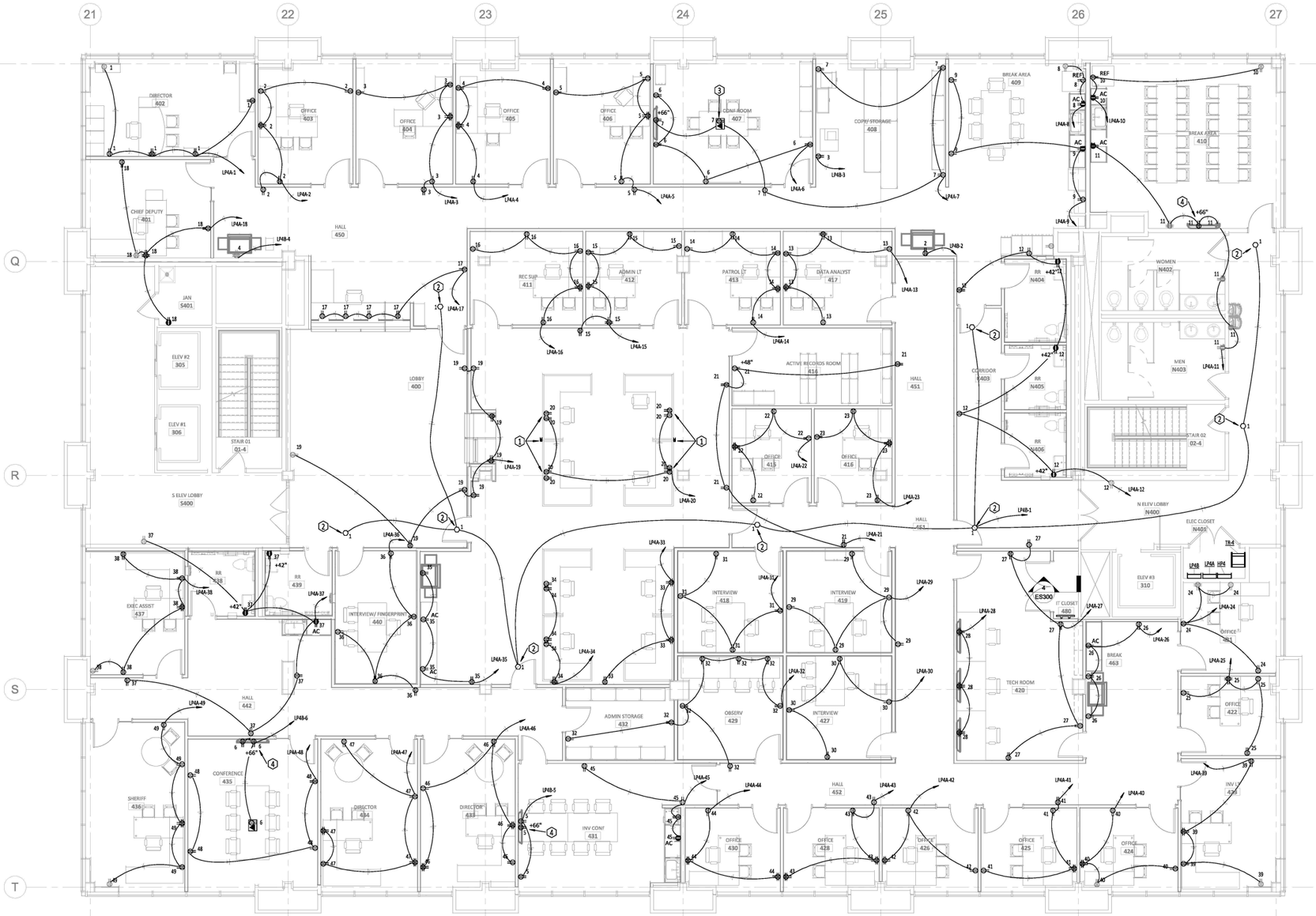
102 E. Main St., Urbana, IL 61801

Drawing Title

THIRD FLOOR POWER PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EP103



FOURTH FLOOR - POWER

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS FEEDS TO MODULAR ISLAND CASEWORK. PROVIDE ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
2. PROVIDE FINAL POWER CONNECTIONS TO DOOR ACCESS CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING
3. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX (TYPICAL FOR ALL BOXES). CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, PROVIDE DEVICES AS SHOWN.
4. PROVIDE RECEPTACLE IN FLUSH WALL MOUNTED FLAT PANEL/DISPLAY BOX BEHIND MONITOR APPROX. 66" A.F.F., SEE DETAIL 3/ES300 . CIRCUIT AS SHOWN

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

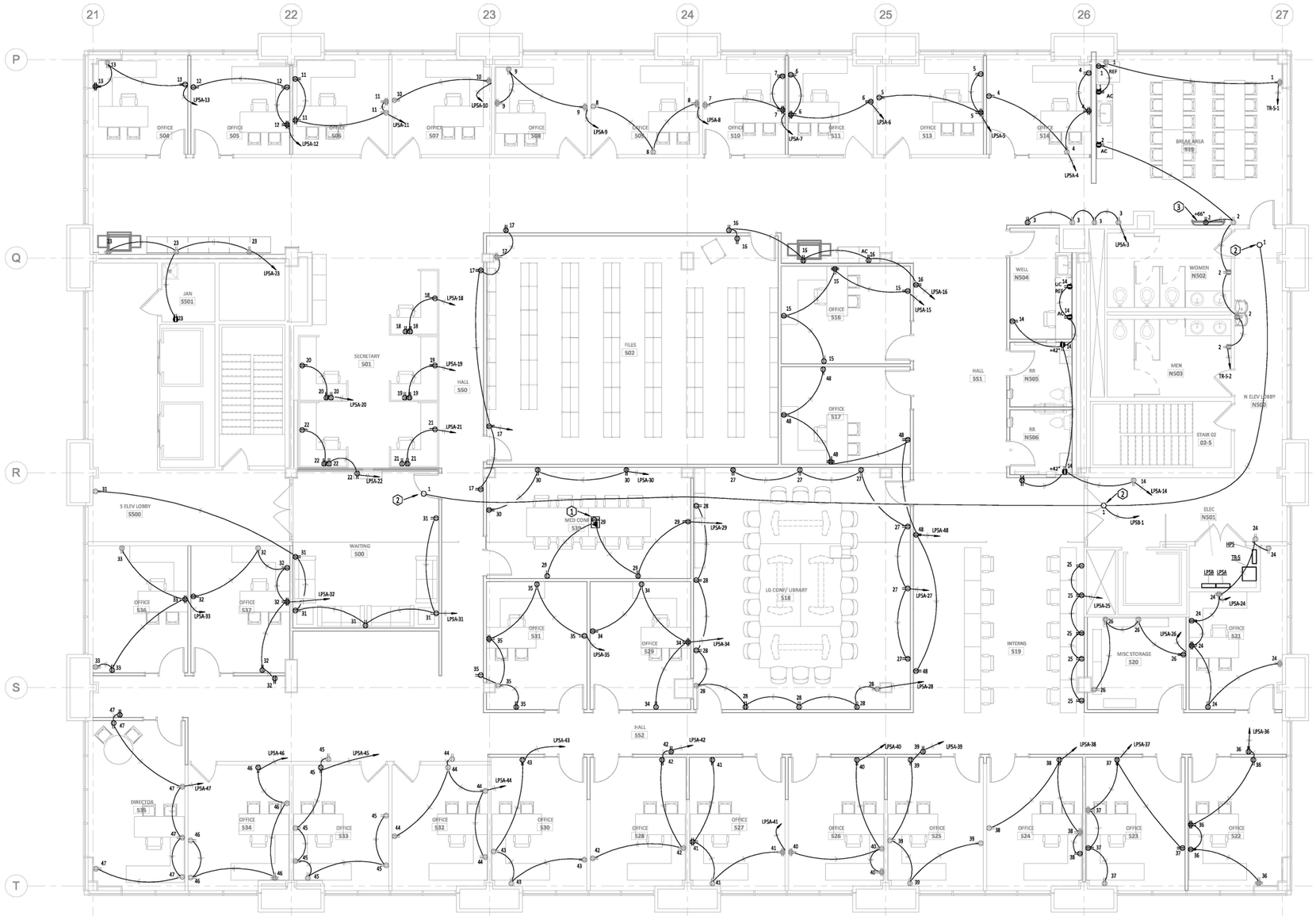
Drawing Title

FOURTH FLOOR POWER PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EP104

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:51:40 PM



FIFTH FLOOR - POWER
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX (TYPICAL FOR ALL BOXES). CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, PROVIDE DEVICES AS SHOWN.
2. PROVIDE FINAL POWER CONNECTIONS TO DOOR ACCESS CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING
3. PROVIDE RECEPTACLE IN FLUSH WALL MOUNTED FLAT PANEL/DISPLAY BOX BEHIND MONITOR APPROX. 66" A.F.F., SEE DETAIL 3/ES300 . CIRCUIT AS SHOWN

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date	Title
DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

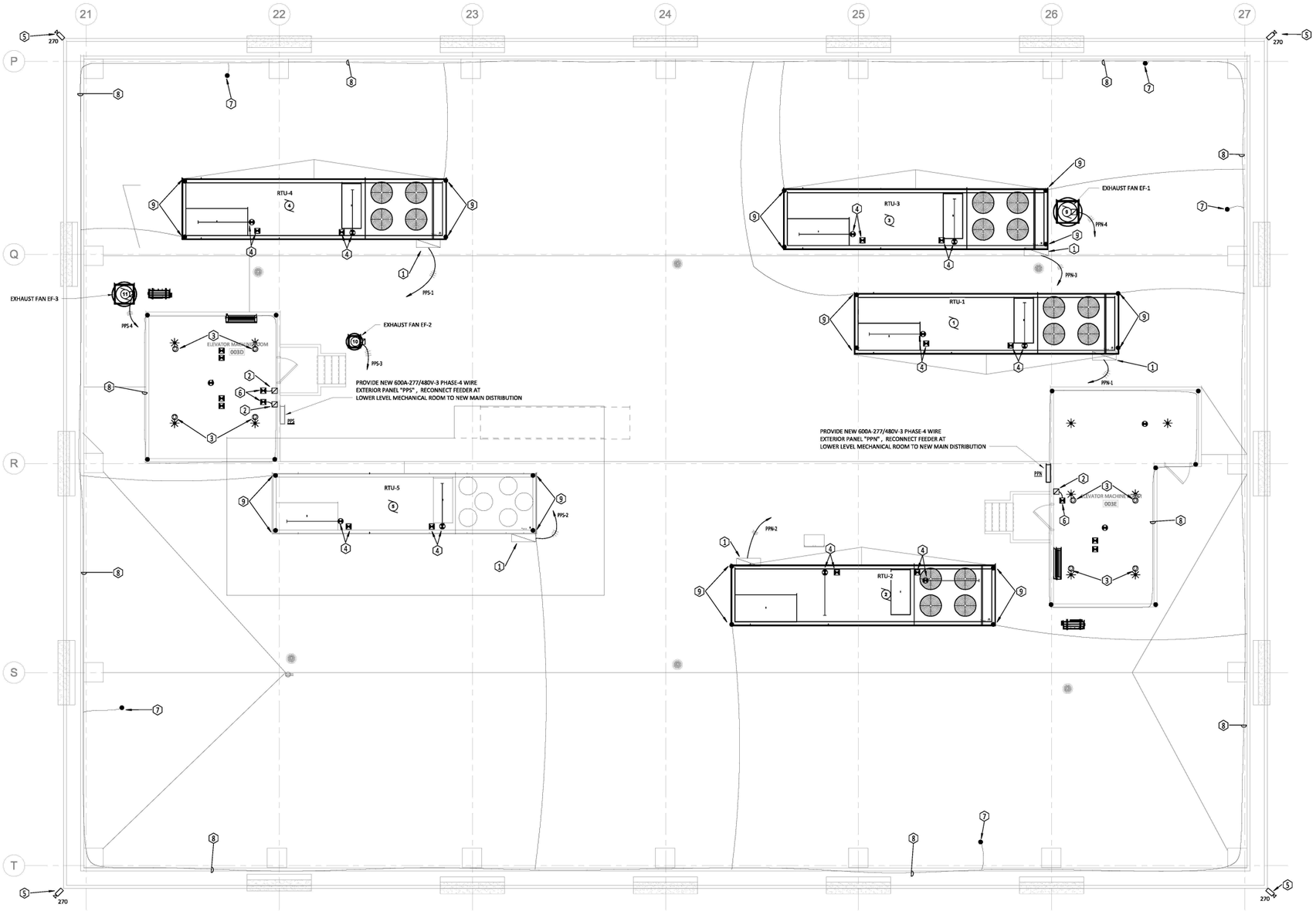
Drawing Title

FIFTH FLOOR POWER PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. EP105

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:51:47 PM



KEYED NOTES - ELECTRICAL

1. PROVIDE FINAL POWER CONNECTIONS TO DISCONNECT SWITCH FURNISHED INTEGRAL WITH UNIT BY UNIT MANUFACTURER
2. PROVIDE 3P-100A-480V BUSSMANN ELEVATOR POWER MODULE SWITCH #PS1T48R1KG8F3-X. RECONNECT EXISTING LINE AND LOAD SIDE CONDUCTORS AS REQUIRED. ROUTE SHUNT TRIP CIRCUIT THRU NORMALLY OPEN CONTACTS OF ADDRESSABLE FIRE ALARM CONTROL MODULE. CONFIGURE FIRE ALARM TO CLOSE CONTACTS UPON ACTIVATION OF ANY HEAT DETECTOR ASSOCIATED WITH EACH ELEVATOR
3. PROVIDE 135 DEGREE RATE OF RISE HEAT DETECTOR WITHIN 24" OF EACH SPRINKLER HEAD IN ELEVATOR PENTHOUSE, TOP OF ELEVATOR SHAFT AND BOTTOM OF ELEVATOR SHAFT. PROGRAM SYSTEM TO ACTIVATE ELEVATOR SHUNT TRIP UPON ACTIVATION OF ANY ASSOCIATED HEAT DETECTOR
4. DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTS FURNISHED INTEGRAL WITH UNIT BY MANUFACTURER, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULE AT EACH DECTOR AND ALL ASSOCIATED CONTROL WIRING. UNIT SHALL BE CONFIGURED TO SHUT DOWN UPON DETECTION OF SMOKE BY EITHER DETECTOR
5. PROVIDE NEW 270 DEGREE EXTERIOR SECURITY CAMERA, MOUNT ON ARM SECURELY ATTACHED TO INSIDE OF PARAPET WALL, ROUTE CABLING DOWN TO 4TH FLOOR PATCH PANEL IN DATA CLOSET. COORDINATE EXACT CIRCUIT ROUTING AND ROOF PENETRATIONS
6. ADDRESSABLE FIRE ALARM CONTROL MODULE FOR ELEVATOR SHUNT TRIP
7. EXISTING LIGHTNING PROTECTION DOWN CONDUCTORS TO REMAIN
8. EXISTING LIGHTNING PROTECTION ROOF RING TO REMAIN, PROVID COMPLETE NEW AIR TERMINALS AS REQUIRED FOR FULLY LABELED SYSTEM, PROVIDE NEW ROOF ATTACHEMENTS ON ALL CONDUCTORS AS REQUIRED
9. PROVIDE LIGHTNING PROTECTION AIR TERMINALS AT EACH CORNER OF NEW AHU AND GROUND RING AROUND TOP. ATTACH AS REQUIRED, PROVIDE CONDUCTORS DOWN IN TWO PLACES AND CONNECT TO MAIN ROOF GROUND RING, MATCH EXISTING CONDUCTOR SIZE

ROOF - T/STRUCTURE - POWER

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

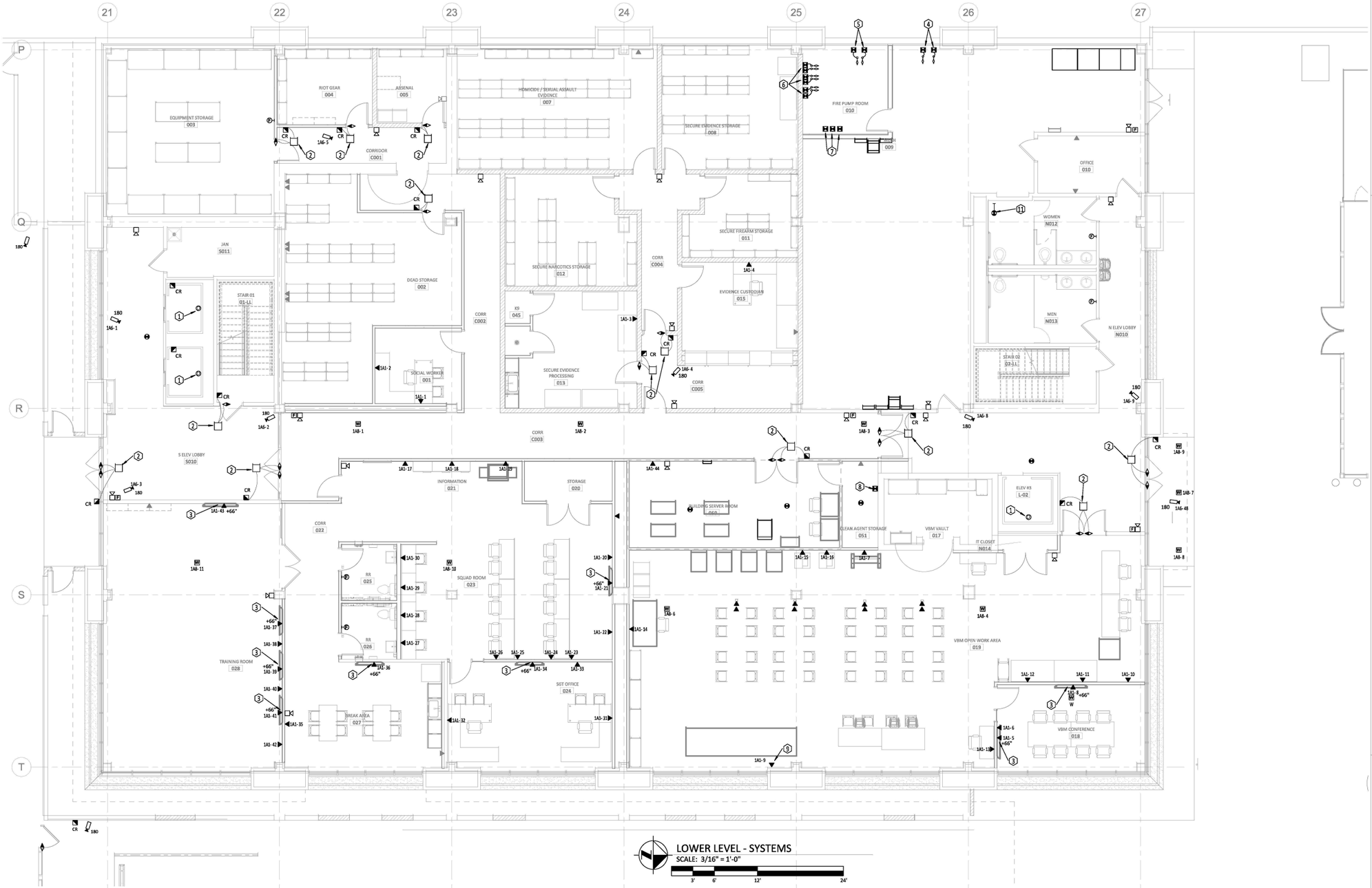
Drawing Title

ROOF LEVEL ELECTRICAL PLAN

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: EP106

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:51:52 PM



KEYED NOTES - ELECTRICAL

1. PROVIDE ADDRESSABLE 135 DEGREE RATE OF RISE HEAT DETECTOR WITHIN 24" OF EACH SPRINKLER HEAD IN ELEVATOR PIT . PROGRAM SYSTEM TO ACTIVATE ELEVATOR SHUNT TRIP UPON ACTIVATION OF ANY ASSOCIATED HEAT DETECTOR. SMOKE DETECTORS IN SHAFT, AND ELEVATOR LOBBIES SHALL INITIATE ELEVATOR RECALL FUNCTION
2. PROVIDE ETHERNET ENABLED DOOR CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING THIS AREA AND ALL REQUIRED CONDUIT AND WIRING DOWN TO DEVICES AS REQUIRED FOR A COMPLETE IP BASED DOOR ACCESS SYSTEM. SEE DETAIL 8/ES300
3. PROVIDE NETWORK OUTLET AND DUPLEX RECEPTACLE IN PAC BOX BEHIND MONITOR, MOUNT APPROX 66" A.F.F. COORDINATE EXACT HEIGHT WITH ARCH. ELEVATIONS. PROVIDE LOWER HDMI INPUT, SEE DETAIL ON 3/ES300.
4. OS&Y VALVES BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FIRE SERVICE OS&Y VALVES. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
5. OS&Y VALVE AND FLOW SWITCH FOR LOWER SPRINKLERS LEVEL BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FLOW SWITCH AND OS&Y VALVE. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
6. PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW OS&Y VALVES ASSOCIATED WITH ALL PUMP ROOM OS&Y VALVES. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
7. PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FIRE PUMP CONTROLLER TO MONITOR POWER AVAILABLE, MOTOR RUNNING, AND PHASE REVERSAL. PROVIDE ALL FINAL CIRCUIT CONNECTIONS TO REMOTE ALARM CONTACTS.
8. PROVIDE ADDRESSABLE FIRE ALARM CONTROL MODULES AT NEW PREACTION SYSTEM ASSOCIATED WITH DATA ROOM, CONFIGURE SYSTEM TO OPEN SOLENOID VALVE UPON DETECTION OF SMOKE FROM SMOKE DETECTOR IN SERVER ROOM.
9. NETWORK CONNECTION TO AGILIS ELECTION EQUIPMENT.
10. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS WITH DEVICES AS SHOWN.
11. PROVIDE DUCT MOUNTED SMOKE DETECTOR WITH AUX CONTACTS ADJACENT TO FIRE/SMOKE DAMPER. PROVIDE REMOTE LED INDICATOR LIGHT AND TEST SWITCH FLUSH IN CEILING BELOW DETECTOR. PROVIDE ALL FINAL FIRE ALARM CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH DUCT CONFIGURATION

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

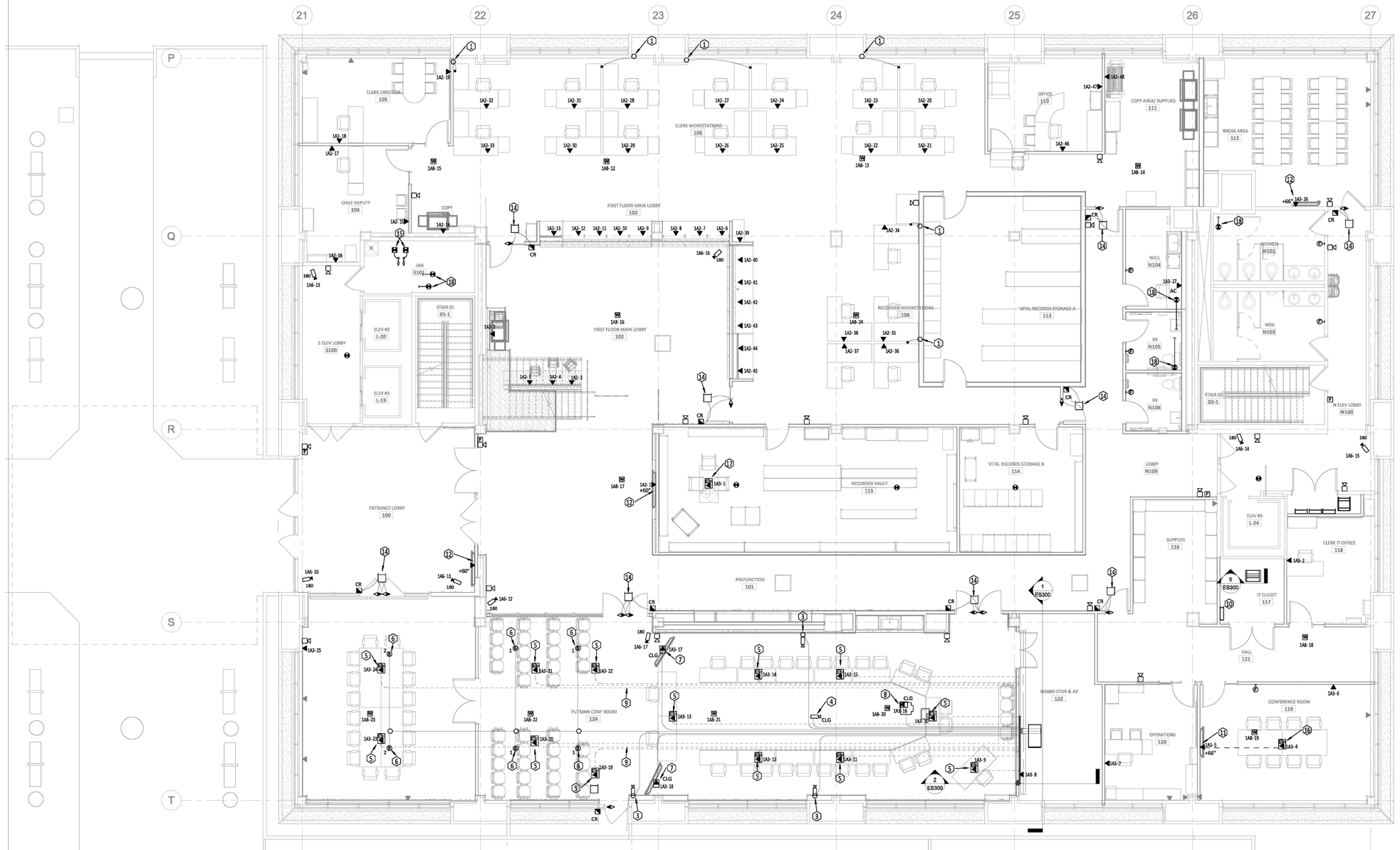
Drawing Title

LOWER LEVEL SYSTEMS PLAN

Expiration Date of Seal: 04-16-2023

BIL Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: ES100

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:51:56 PM



KEYED NOTES - ELECTRICAL

1. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX WITH FURNITURE FEED COVER PLATE AND FLEXIBLE CONDUIT WHIP TO MODULAR CASEWORK. PROVIDE ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED. STUB 1" CONDUIT FROM BOX UP TO ABOVE LAY-IN CEILING AND TERMINATE WITH PLASTIC END BUSHING FOR COMMUNICATIONS WIRING
2. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS FEEDS TO MODULAR ISLAND CASEWORK. PROVIDE FLEXIBLE CONDUIT WHIP ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
3. OWNERS EXISTING WALL MOUNTED PAN-TILT-ZOOM CAMERA RELOCATED FROM PREVIOUS SITE, PROVIDE FLUSH MOUNTED SINGLE GANG BOX IN WALL WITH GROMMETED COVERPLATE AND 3/4" CONDUIT WITH PULL STRING BACK TO CABLE TRAY ABOVE AV ROOM LAY-IN CEILING
4. OWNERS EXISTING CEILING MOUNTED PAN-TILT-ZOOM CAMERA RELOCATED FROM PREVIOUS SITE, PROVIDE FLUSH MOUNTED SINGLE GANG BOX IN CEILING WITH GROMMETED COVERPLATE AND 3/4" CONDUIT WITH PULL STRING BACK TO CABLE TRAY ABOVE AV ROOM LAY-IN CEILING
5. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX (TYPICAL FOR ALL BOXES WITHIN BOARD ROOM AND PUTMAN CONFERENCE). CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, ROUTE 1" CONDUIT WITH PULL STRING FROM BOX UP TO CABLE TRAY ABOVE LAY-IN CEILING IN AV STORAGE ROOM
6. EXISTING CEILING SPEAKER RELOCATED FROM OWNERS PREVIOUS SITE, PROVIDE 3/4" CONDUIT ABOVE CEILING AS SHOWN WITH PULL STRING BACK TO CABLE TRAY ABOVE LAY-IN CEILING IN AV STORAGE ROOM, TURN DOWN CONDUIT TO CEILING OPENING ABOVE SPEAKER AND PROVIDE PLASTIC END BUSHINGS ON CONDUITS. NOTE: SUBSCRIPT NEXT TO SPEAKER INDICATES AUDIO ZONE.
7. EXISTING CEILING MOUNTED MONITOR RELOCATED FROM OWNERS PREVIOUS SITE, PROVIDE 1" CONDUIT ABOVE CEILING WITH PULL STRING BACK TO CABLE TRAY ABOVE LAY-IN CEILING IN AV STORAGE ROOM, TURN DOWN CONDUIT TO MONITOR MOUNT, PROVIDE PLASTIC END BUSHINGS ON CONDUITS
8. EXISTING CEILING MOUNTED PROJECTOR RELOCATED FROM OWNERS PREVIOUS SITE, PROVIDE 1" CONDUIT ABOVE CEILING WITH PULL STRING BACK TO CABLE TRAY ABOVE LAY-IN CEILING IN AV STORAGE ROOM, TURN DOWN CONDUIT TO MONITOR MOUNT, PROVIDE PLASTIC END BUSHINGS ON CONDUITS
9. 1" CONDUIT BELOW FLOOR IN CEILING CAVITY OF LOWER LEVEL (TYPICAL), COORDINATE EXACT ROUTING WITH STRUCTURE AND EXISTING CONDITIONS
10. PROVIDE GROUNDING BAR. SEE DETAIL 7 ON ES300 FOR GROUNDING ONE-LINE DIAGRAM
11. PROVIDE FLUSH WALL MOUNTED FLAT PANEL/DISPLAY UTILITY BOX BEHIND MONITOR WITH LOW HDMI ROUGH-IN AND PATHWAY TO FLUSH FLOOR BOX, SEE DETAIL 3/ES300 .
12. PROVIDE FLUSH WALL MOUNTED FLAT PANEL/DISPLAY UTILITY BOX BEHIND MONITOR, SEE DETAIL 3/ES300 . LOWER HDMI AND PATHWAY TO FLOOR BOX NOT REQUIRED FOR THIS LOCATION
13. DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTS FURNISHED INTEGRAL WITH UNIT BY MANUFACTURER, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULE AT EACH DECTOR AND ALL ASSOCIATED CONTROL WIRING. UNIT SHALL BE CONFIGURED TO SHUT DOWN UPON DETECTION OF SMOKE BY EITHER DETECTOR
14. PROVIDE ETHERNET ENABLED DOOR CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING THIS AREA AND ALL REQUIRED CONDUIT AND WIRING DOWN TO DEVICES AS REQUIRED FOR A COMPLETE IP BASED DOOR ACCESS SYSTEM. SEE DETAIL 8/ES300
15. OS&Y VALVE AND FLOW SWITCH FOR FIRST FLOOR SPRINKLERS BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FLOW SWITCH AND OS&Y VALVE. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
16. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX . CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, ROUTE 1" CONDUIT WITH PULL STRING FROM BOX UP TO FLUSH WALL BOX BEHIND MONITOR
17. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX . CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION.
18. PROVIDE DUCT MOUNTED SMOKE DETECTOR WITH AUX CONTACTS ADJACENT TO FIRE/SMOKE DAMPER. PROVIDE REMOTE LED INDICATOR LIGHT AND TEST SWITCH FLUSH IN CEILING BELOW DETECTOR. PROVIDE ALL FINAL FIRE ALARM CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH DUCT CONFIGURATION

FIRST FLOOR - SYSTEMS
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

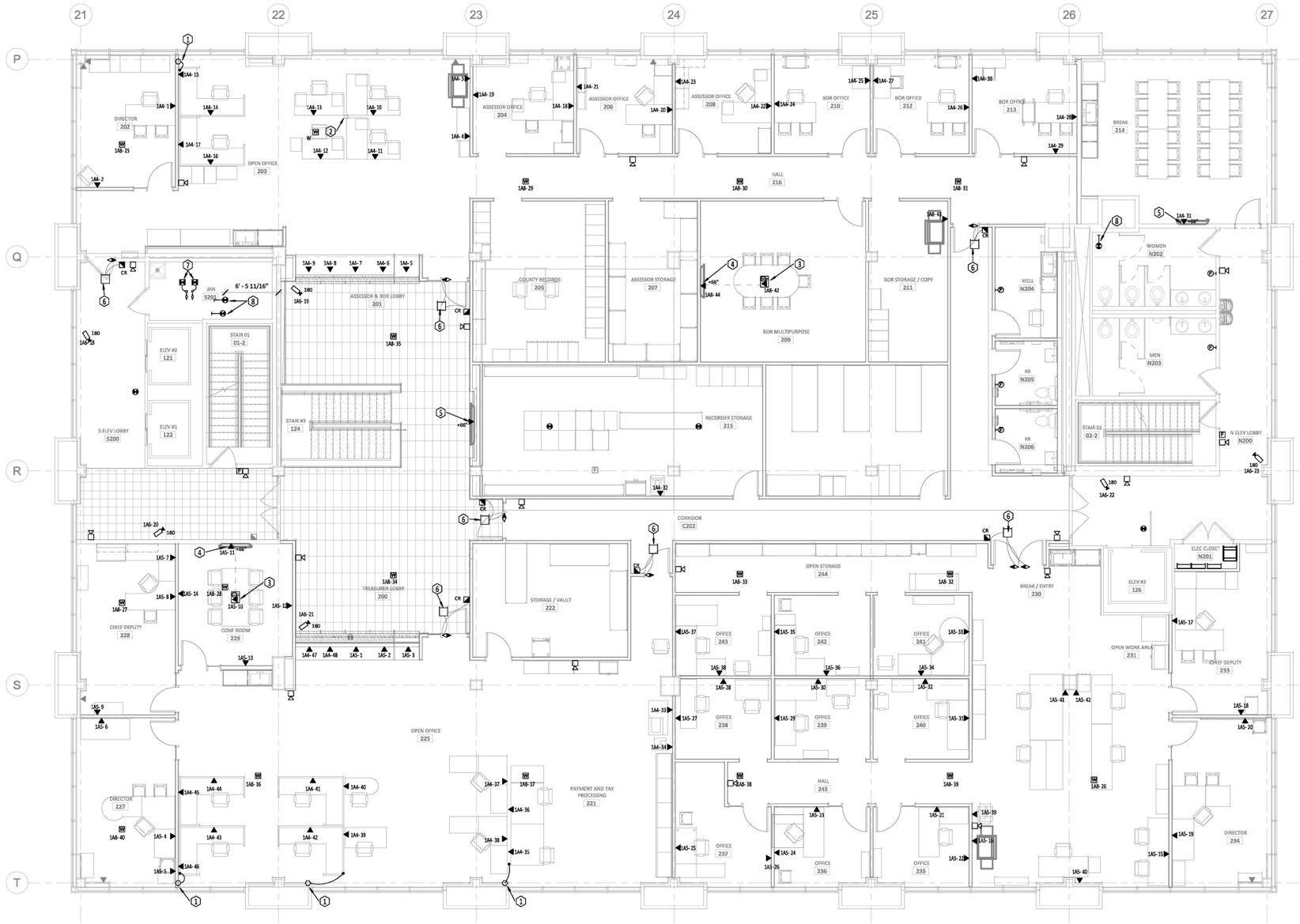
102 E. Main St., Urbana, IL 61801

Drawing Title

FIRST FLOOR SYSTEMS PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ES101



KEYED NOTES - ELECTRICAL

1. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX WITH FURNITURE FEED COVER PLATE AND FLEXIBLE CONDUIT WHIP TO MODULAR CASEWORK. PROVIDE ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED. STUB 1" CONDUIT FROM BOX UP TO ABOVE LAY-IN CEILING AND TERMINATE WITH PLASTIC END BUSHING FOR COMMUNICATIONS WIRING
2. PROVIDE TWO COMPARTMENT POWER POLE FOR POWER AND COMMUNICATIONS FEEDS TO MODULAR ISLAND CASEWORK AND FREE-STANDING DESKS. PROVIDE FLEXIBLE CONDUIT WHIP ALL ASSOCIATED WIRING AND DEVICES WITHIN FURNITURE UTILITY CHANNELS AS REQUIRED.
3. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX . CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, ROUTE 1" CONDUIT WITH PULL STRING FROM BOX UP TO FLUSH WALL BOX BEHIND MONITOR
4. PROVIDE FLUSH WALL MOUNTED FLAT PANEL/DISPLAY UTILITY BOX BEHIND MONITOR WITH LOW HDMI ROUGH-IN AND PATHWAY TO FLUSH FLOOR BOX, SEE DETAIL 3/ES300 .
5. PROVIDE FLUSH WALL MOUNTED FLAT PANEL/DISPLAY UTILITY BOX BEHIND MONITOR, SEE DETAIL 3/ES300 . LOWER HDMI AND PATHWAY TO FLOOR BOX NOT REQUIRED FOR THIS LOCATION
6. PROVIDE ETHERNET ENABLED DOOR CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING THIS AREA AND ALL REQUIRED CONDUIT AND WIRING DOWN TO DEVICES AS REQUIRED FOR A COMPLETE IP BASED DOOR ACCESS SYSTEM. SEE DETAIL 8/ES300
7. OS&Y VALVE AND FLOW SWITCH FOR FIRST FLOOR SPRINKLERS BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FLOW SWITCH AND OS&Y VALVE. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
8. PROVIDE DUCT MOUNTED SMOKE DETECTOR WITH AUX CONTACTS ADJACENT TO FIRE/SMOKE DAMPER. PROVIDE REMOTE LED INDICATOR LIGHT AND TEST SWITCH FLUSH IN CEILING BELOW DETECTOR. PROVIDE ALL FINAL FIRE ALARM CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH DUCT CONFIGURATION

SECOND FLOOR - SYSTEMS

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

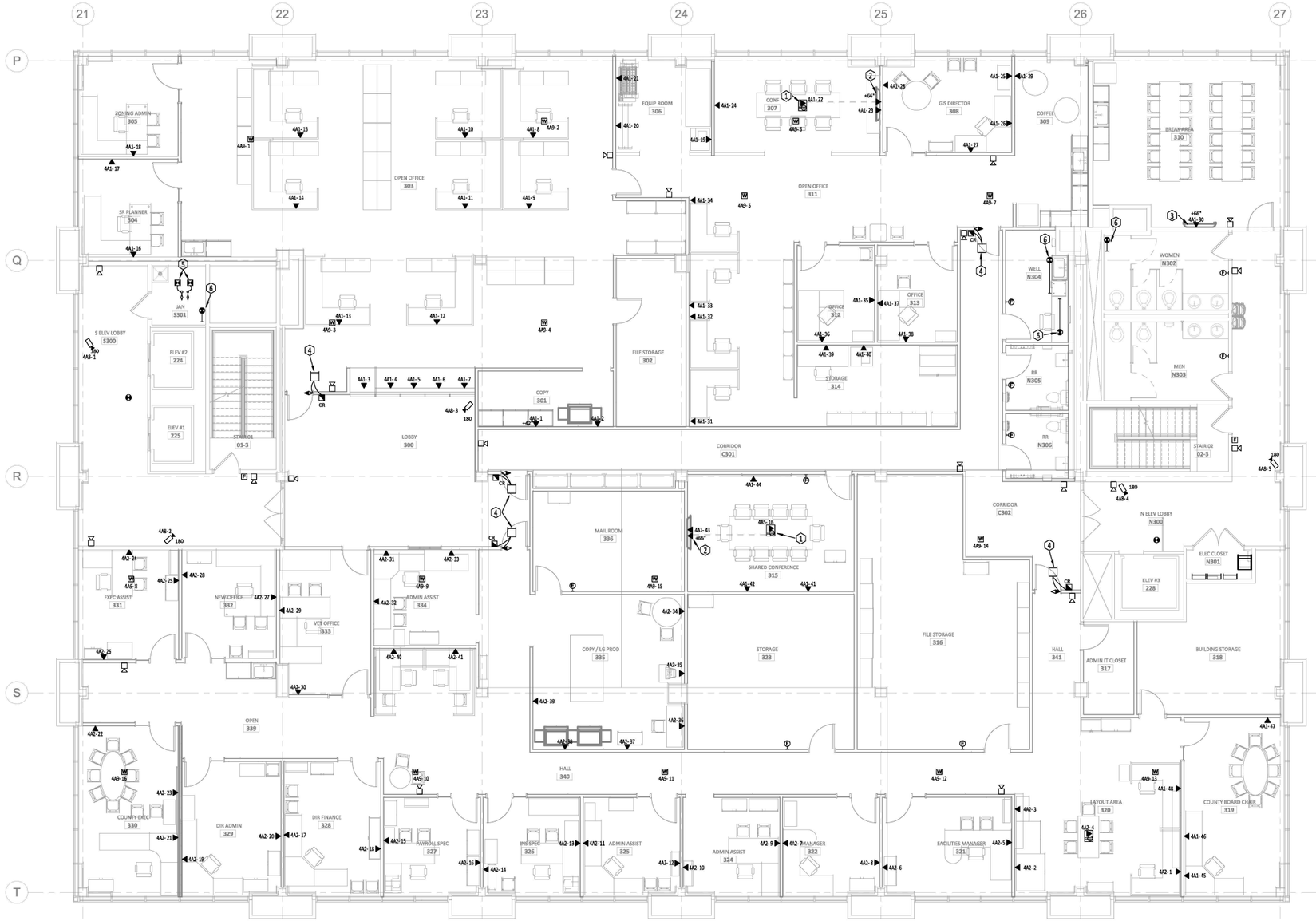
Drawing Title

SECOND FLOOR SYSTEMS PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ES102

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:52:11 PM



THIRD FLOOR - SYSTEMS
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX . CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, ROUTE 1" CONDUIT WITH PULL STRING FROM BOX UP TO FLUSH WALL BOX BEHIND MONITOR
2. PROVIDE NETWORK OUTLET AND DUPLEX RECEPTACLE IN PAC BOX BEHIND MONITOR, MOUNT APPROX 66" A.F.F. COORDINATE EXACT HEIGHT WITH ARCH. ELEVATIONS. PROVIDE LOWER HDMI INPUT AND PATHWAY TO FLUSH FLOOR BOX, SEE DETAIL ON 3/ES300.
3. PROVIDE FLUSH WALL MOUNTED FLAT PANEL/DISPLAY UTILITY BOX BEHIND MONITOR, SEE DETAIL 3/ES300 . LOWER HDMI AND PATHWAY TO FLOOR BOX NOT REQUIRED FOR THIS LOCATION
4. PROVIDE ETHERNET ENABLED DOOR CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING THIS AREA AND ALL REQUIRED CONDUIT AND WIRING DOWN TO DEVICES AS REQUIRED FOR A COMPLETE IP BASED DOOR ACCESS SYSTEM. SEE DETAIL 8/ES300
5. OS&Y VALVE AND FLOW SWITCH FOR SECOND FLOOR SPRINKLERS BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FLOW SWITCH AND OS&Y VALVE. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
6. PROVIDE DUCT MOUNTED SMOKE DETECTOR WITH AUX CONTACTS ADJACENT TO FIRE/SMOKE DAMPER. PROVIDE REMOTE LED INDICATOR LIGHT AND TEST SWITCH FLUSH IN CEILING BELOW DETECTOR. PROVIDE ALL FINAL FIRE ALARM CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH DUCT CONFIGURATION

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

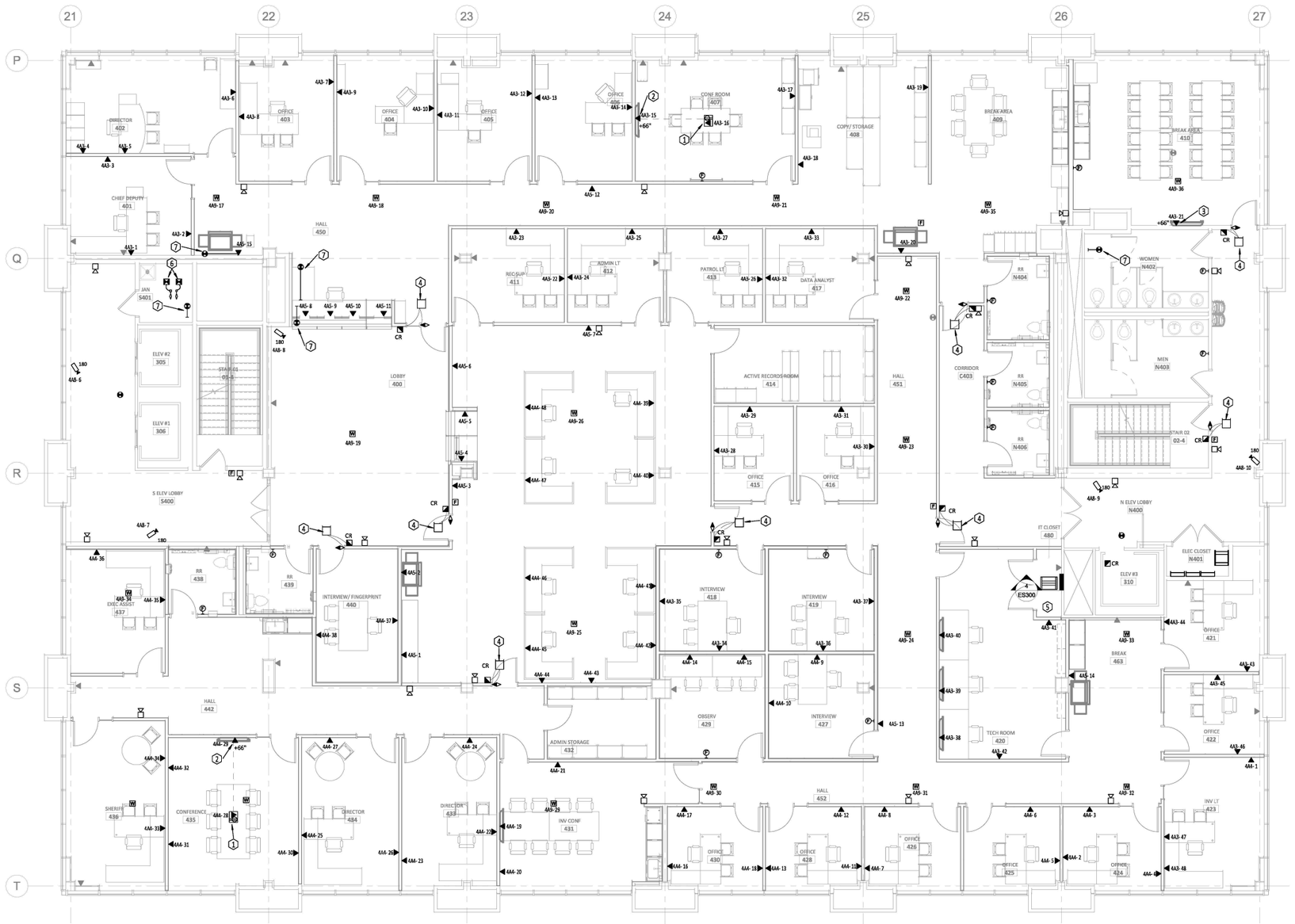
Drawing Title

THIRD FLOOR SYSTEMS PLAN

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ES103

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:52:17 PM



KEYED NOTES - ELECTRICAL

1. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX . CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, ROUTE 1" CONDUIT WITH PULL STRING FROM BOX UP TO FLUSH WALL BOX BEHIND MONITOR
2. PROVIDE NETWORK OUTLET AND DUPLEX RECEPTACLE IN PAC BOX BEHIND MONITOR, MOUNT APPROX 66" A.F.F. COORDINATE EXACT HEIGHT WITH ARCH. ELEVATIONS. PROVIDE LOWER HDMI INPUT AND PATHWAY TO FLUSH FLOOR BOX, SEE DETAIL ON 3/ES300.
3. PROVIDE FLUSH WALL MOUNTED FLAT PANEL/DISPLAY UTILITY BOX BEHIND MONITOR, SEE DETAIL 3/ES300 . LOWER HDMI AND PATHWAY TO FLOOR BOX NOT REQUIRED FOR THIS LOCATION
4. PROVIDE ETHERNET ENABLED DOOR CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING THIS AREA AND ALL REQUIRED CONDUIT AND WIRING DOWN TO DEVICES AS REQUIRED FOR A COMPLETE IP BASED DOOR ACCESS SYSTEM. SEE DETAIL 8/ES300
5. PROVIDE GROUNDING BAR. SEE DETAIL 6 ON ES300 FOR GROUNDING ONE LINE DIAGRAM
6. OS&Y VALVE AND FLOW SWITCH FOR FOURTH FLOOR SPRINKLERS BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FLOW SWITCH AND OS&Y VALVE. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
7. PROVIDE DUCT MOUNTED SMOKE DETECTOR WITH AUX CONTACTS ADJACENT TO FIRE/SMOKE DAMPER. PROVIDE REMOTE LED INDICATOR LIGHT AND TEST SWITCH FLUSH IN CEILING BELOW DETECTOR. PROVIDE ALL FINAL FIRE ALARM CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH DUCT CONFIGURATION

FOURTH FLOOR - SYSTEMS

SCALE: 3/16" = 1'-0"

3' 6' 12' 24'

bailey edward

T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date — Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

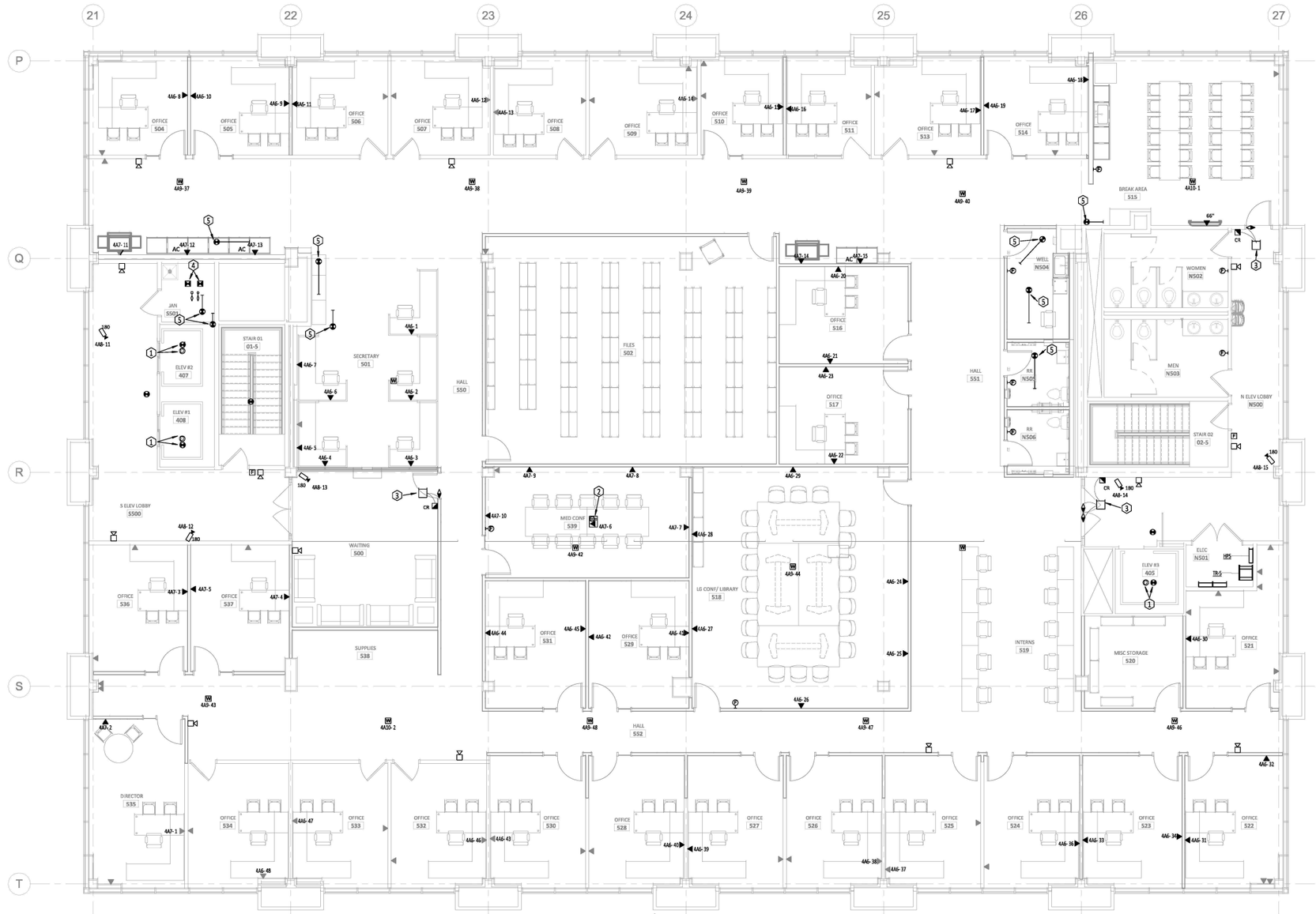
Drawing Title

FOURTH FLOOR SYSTEMS PLAN

Expiration Date of Seal: 04-16-2023

BE Project No.: 021212
GHR Project No.: 7420
Drawn By: TLH
Drawing No.: ES104

BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:52:24 PM



FIFTH FLOOR - SYSTEMS
SCALE: 3/16" = 1'-0"
3' 6' 12' 24'

KEYED NOTES - ELECTRICAL

1. PROVIDE ADDRESSABLE SMOKE DETECTOR AND 135 DEGREE RATE OF RISE HEAT DETECTOR WITHIN 24" OF EACH SPRINKLER HEAD IN ELEVATOR PENTHOUSE, TOP OF ELEVATOR SHAFT . PROGRAM SYSTEM TO ACTIVATE ELEVATOR SHUNT TRIP UPON ACTIVATION OF ANY ASSOCIATED HEAT DETECTOR. SMOKE DETECTORS IN SHAFT, AND ELEVATOR LOBBIES SHALL INITIATE ELEVATOR RECALL FUNCTION
2. PROVIDE 6" FIRE RATED, 3-SERVICE, POKE-THRU STYLE FLOOR BOX . CORE DRILL FLOOR AS REQUIRED FOR INSTALLATION, ROUTE 1" CONDUIT WITH PULL STRING FROM BOX TO CEILING CAVITY BELOW
3. PROVIDE ETHERNET ENABLED DOOR CONTROLLER/POWER SUPPLY ABOVE LAY-IN CEILING THIS AREA AND ALL REQUIRED CONDUIT AND WIRING DOWN TO DEVICES AS REQUIRED FOR A COMPLETE IP BASED DOOR ACCESS SYSTEM. SEE DETAIL 8/ES300
4. OS&Y VALVE AND FLOW SWITCH FOR FIFTH FLOOR SPRINKLERS BY FIRE PROTECTION CONTRACTOR, PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES AT NEW FLOW SWITCH AND OS&Y VALVE. PROVIDE ALL FINAL CONNECTIONS TO VALVE SWITCH.
5. PROVIDE DUCT MOUNTED SMOKE DETECTOR WITH AUX CONTACTS ADJACENT TO FIRE/SMOKE DAMPER. PROVIDE REMOTE LED INDICATOR LIGHT AND TEST SWITCH FLUSH IN CEILING BELOW DETECTOR. PROVIDE ALL FINAL FIRE ALARM CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH DUCT CONFIGURATION

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM

1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date / Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

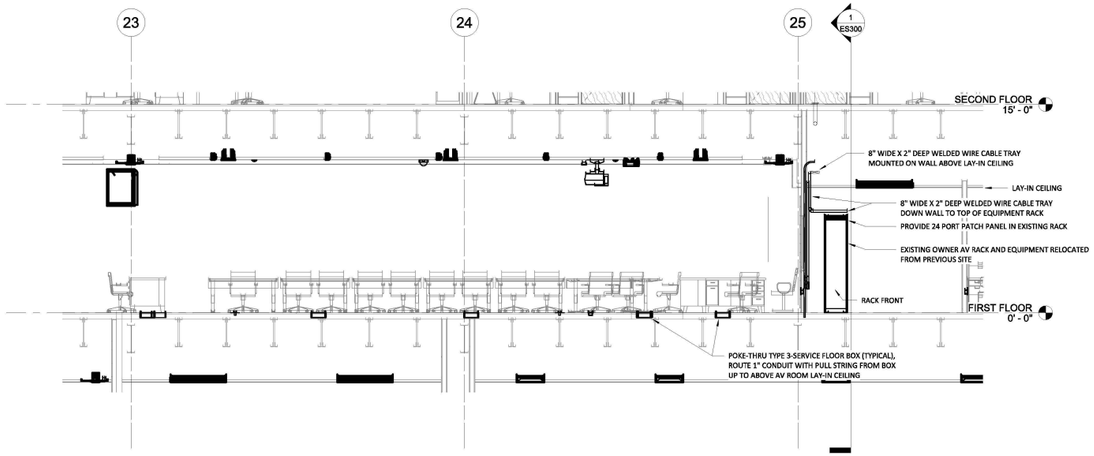
Drawing Title

FIFTH FLOOR SYSTEMS PLAN

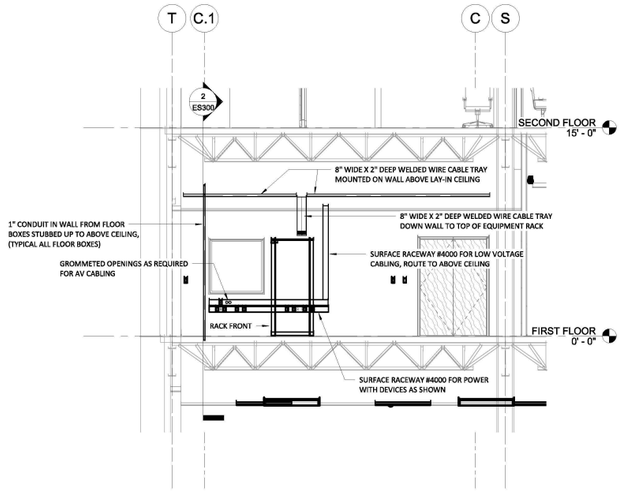
Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ES105

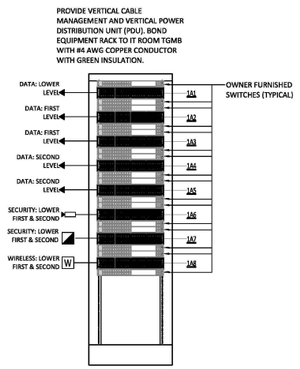
BIM 360://021212 - Champaign County Plaza Renovation/7420 - CC Plaza - MEP21 - Central.rvt
11/3/2022 2:52:30 PM



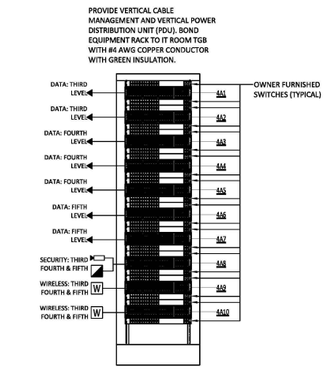
2 ES300 BOARD AV ROOM WEST ELEVATION
SCALE: 1/4" = 1'-0"



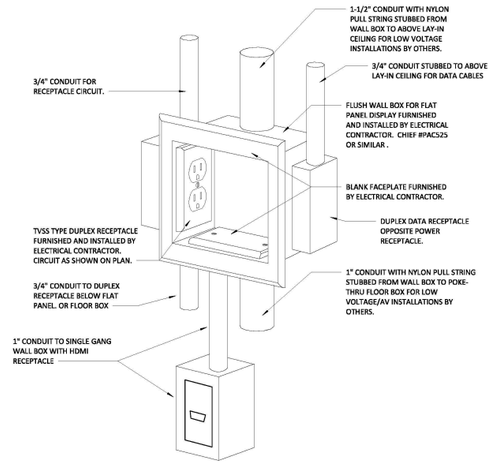
1 ES300 BOARD AV ROOM -SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



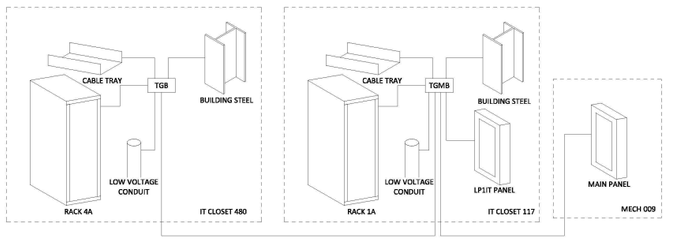
5 ES300 FIRST FLOOR DATA RACK ELEVATION
NO SCALE



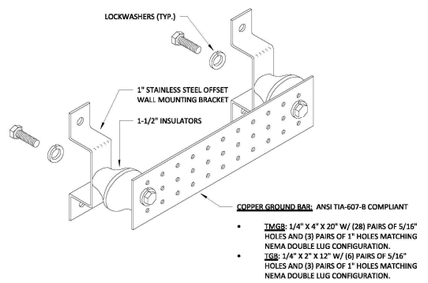
4 ES300 FORTH FLOOR DATA RACK ELEVATION
NO SCALE



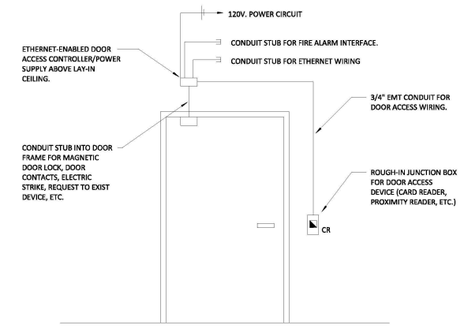
3 ES300 FLAT PANEL WALL BOX
NO SCALE



7 ES300 I.T. GROUNDING RISER
NO SCALE



6 ES300 I.T. GROUND BAR DETAIL
NO SCALE



8 ES300 DOOR ACCESS ROUGH-IN DETAIL (a)
NO SCALE

bailey edward
T 217.363.3375
F 312.440.2303
WWW.BAILEYEDWARD.COM
1103 SOUTH MATTIS AVE
CHAMPAIGN, IL
61821-4829

MEP ENGINEER
GHR ENGINEERS & ASSOCIATES
1615 SOUTH NEIL STREET
CHAMPAIGN, IL 61820
217.356.0536

Issue Date Title

DATE	DRAWING SET TITLE
11.04.2022	ISSUED FOR BID

CHAMPAIGN COUNTY PLAZA

102 E. Main St., Urbana, IL 61801

Drawing Title

SYSTEMS DETAILS

Expiration Date of Seal: 04-16-2023

BE Project No. 021212
GHR Project No. 7420
Drawn By: TLH
Drawing No. ES300