UNIVERSITY OF KENTUCKY
Purchasing Division

INVITATION FOR BIDS

CCK-2561-22
ADDENDUM # 1
07/30/2021

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 08/17/2021 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

1. Please refer to and incorporate within the offer, the attached addendum items from Whiting-Turner and Lord Aeck Sargent.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

Procurement Manager / (859) 323-5405

SIGNATURE

_____

_____
Typed or Printed Name

University of Kentucky
Purchasing Division
322 Peterson Service Building
Lexington, KY 40506-0005

Bidders shall conform to the following clarifications, corrections and changes, as same shall become binding on the Contract to be issued in response to this Invitation for Bids. Bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject Bidder to disqualification.

1. **Clarification to Subcontract <u>All Work Categories:</u>** Please see the attached Pre-Bid Presentation and Sign-In sheet.

2. **Clarification to Subcontract <u>All Work Categories:</u>** The substantial completion date for the project is June 25th, 2022. The Bid Amount shall include the cost for all trades to have their work completed on or before this date.

3. **Addition of Subcontract <u>WC 00A Combination Bids</u>:** This project will offer the opportunity for bidders to provide a combination bid for multiple work categories as indicated on the form of proposal. The intent is to offer a reduced price if awarded multiple work categories for reduced overhead, supervision and greater economy of scale. Bidders can elect to submit only a combination bid or submit both combination and individual work category bids.

4. **Clarification to Subcontract <u>WC 01B</u>:** Please see the attached revised WC 01B bid form. Revised scope includes: added wood framing and subfloor infill at recess left at two fireplaces, added door frame protection. The Bid Amount shall include the cost to provide this scope.

5. **Clarification to Subcontract <u>WC 02B</u>:** Please see the attached revised WC 02B bid form. Revised scope includes: Demo of remaining stair A handrail, demo of masonry walls at fireplace/chimney, Removal of extruded nails from bottom of wood joists, revisions to items to purchase for the break area. The Bid Amount shall include the cost to provide this scope.

6. **Clarification to Subcontract <u>WC 04B</u>:** Please see the attached revised WC 04B bid form. Revised scope includes: Additional patching at historic interior masonry walls. The Bid Amount shall include the cost to provide this scope.

7. **Clarification to Subcontract <u>WC 07B</u>:** Please see the attached revised WC 07B bid form. Revised scope includes: Hiring a third-party waterproofing consultant to review plans and conduct first work inspections of the building envelope. The Bid Amount shall include the cost to provide this scope.

8. **Clarification to Subcontract <u>WC 08B</u>:** Please see the attached revised WC 08B bid form. Revised scope includes: Removal of plywood and handrail at existing window openings prior to installation of new windows and removal storage and reinstallation of glass rail at student center temporary exit. The Bid Amount shall include the cost to provide this scope.

9. **Clarification to Subcontract <u>WC 31A</u>:** Please see the attached revised WC 31A bid form. Revised scope includes: Metering temporary water connections and paying for water usage, providing temporary stair scaffold at student center exit for the duration of the Administration Drive shutdown. The Bid Amount shall include the cost to provide this scope.

10. **Clarification to Subcontract <u>WC 32A</u>:** Please see the attached revised WC 32A bid form. Revised scope include: replacement of landscaping at the temporary walkway adjacent to Administration Drive. The Bid Amount shall include the cost to provide this scope.

11. **Clarification to Subcontract <u>All Work Categories:</u>** Please see the attached LAS Addenda #1 narrative and revised drawings and revised specification sections. The Bid Amount shall include the cost to provide this scope.

University of Kentucky
Purchasing Division
322 Peterson Service Building
Lexington, KY 40506-0005

University of Kentucky Renew/Modernize Frazee Hall Pre-Bid Meeting

July 26, 2021

UNIVERSITY OF KENTUCKY

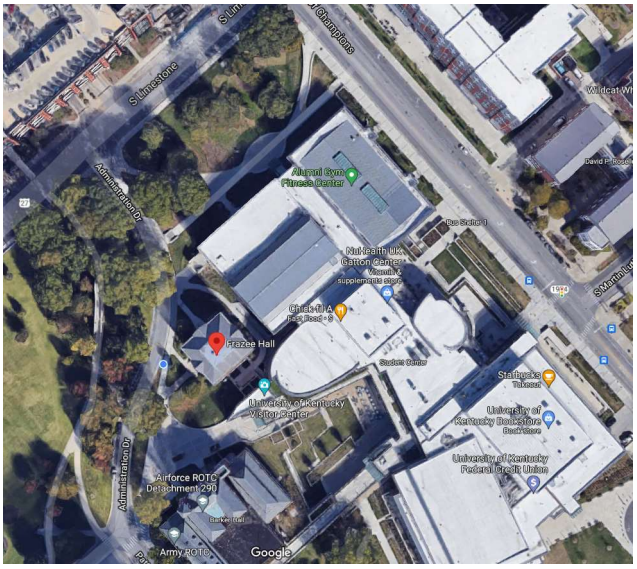
LORD AECK SARGENT

WHITING-TURNER

1

Project Overview

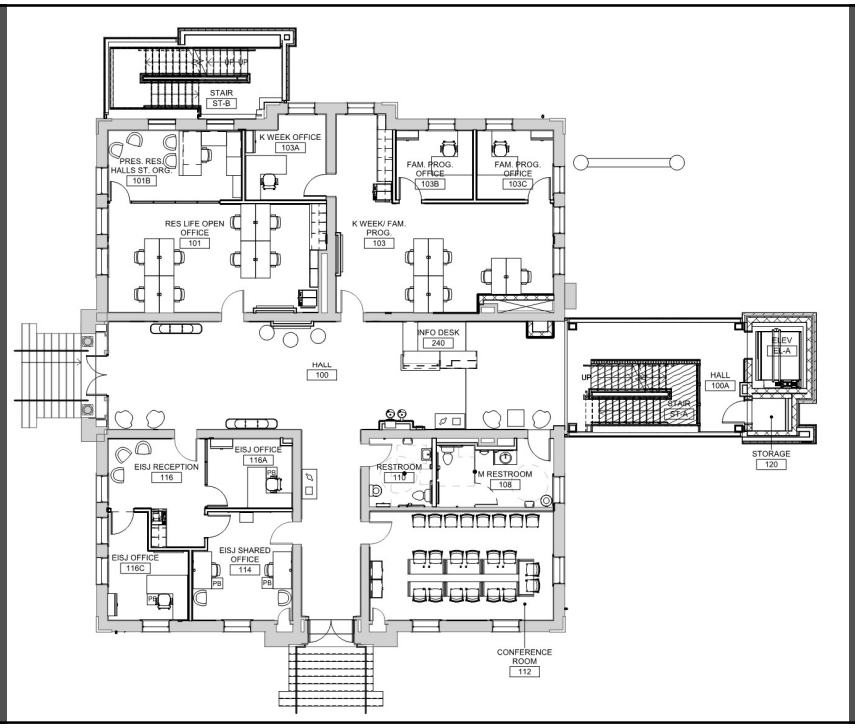
Project Location:
Frazee Hall
406 Administration Drive
Lexington KY, 40508



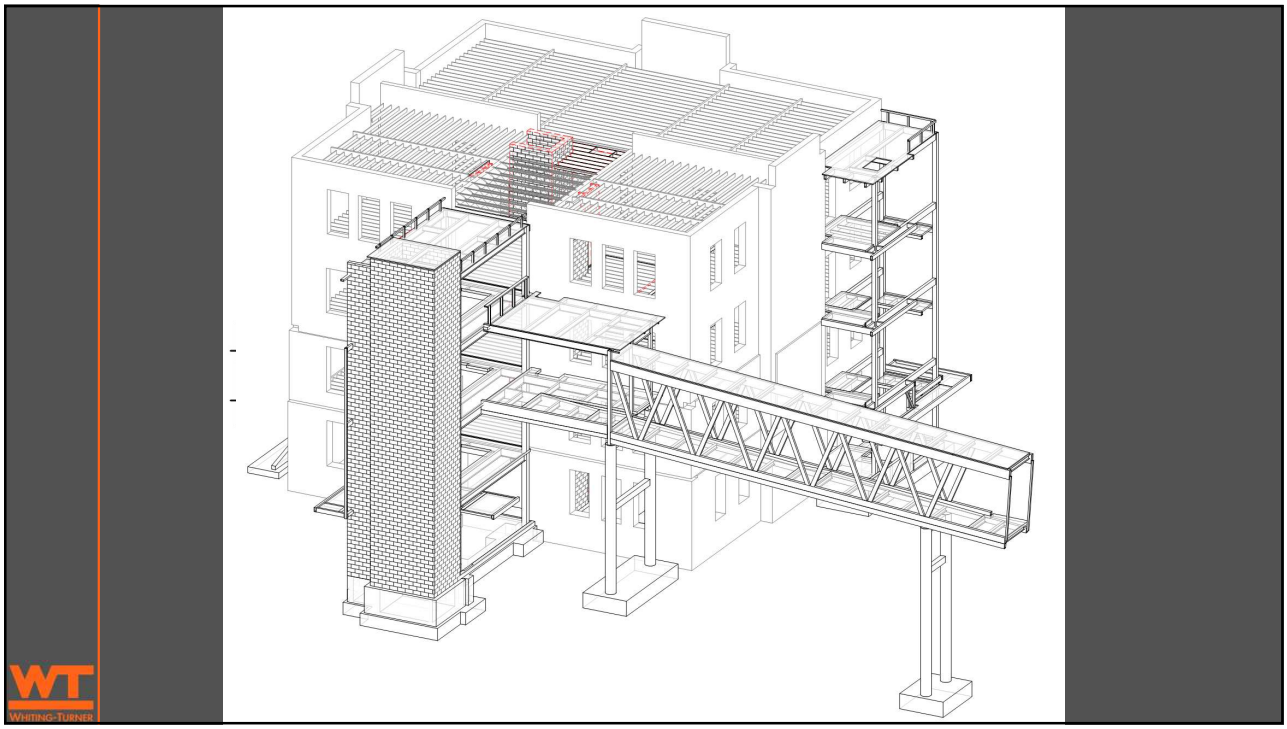
2

Historic Renovation

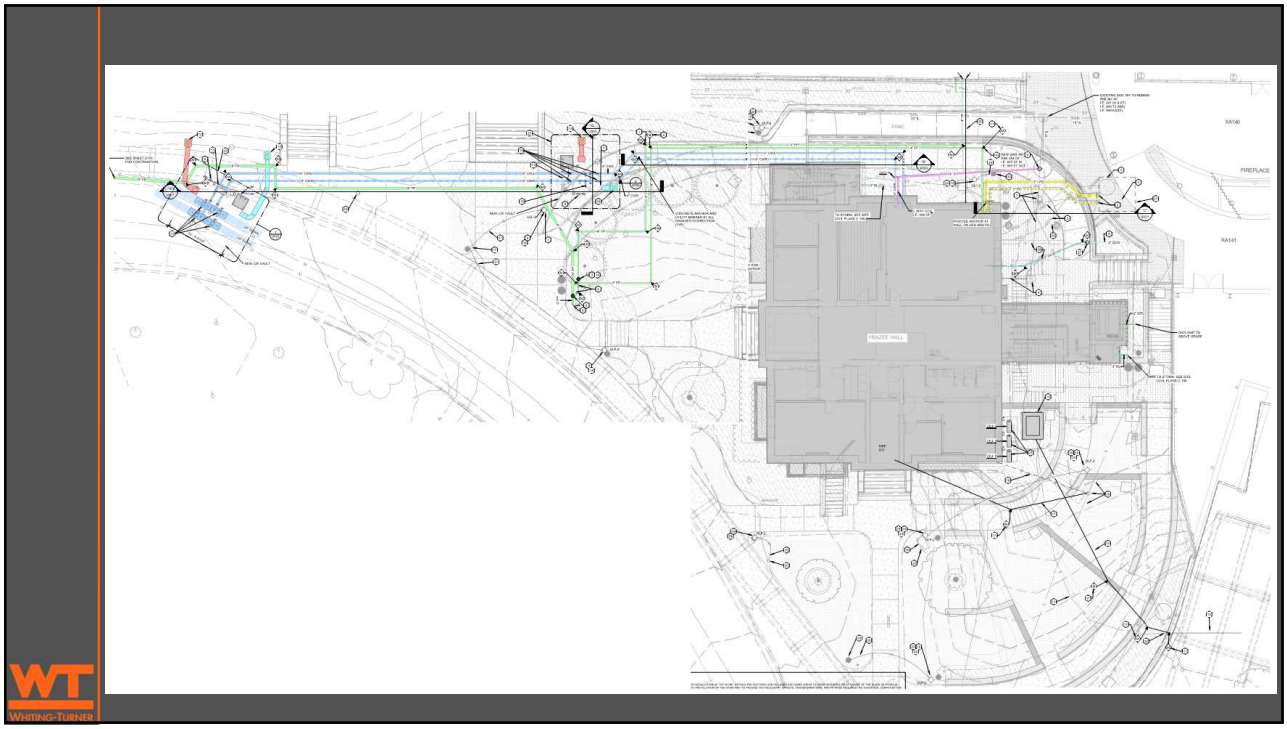
3



4



5



6

Alternate #1 – Card Readers

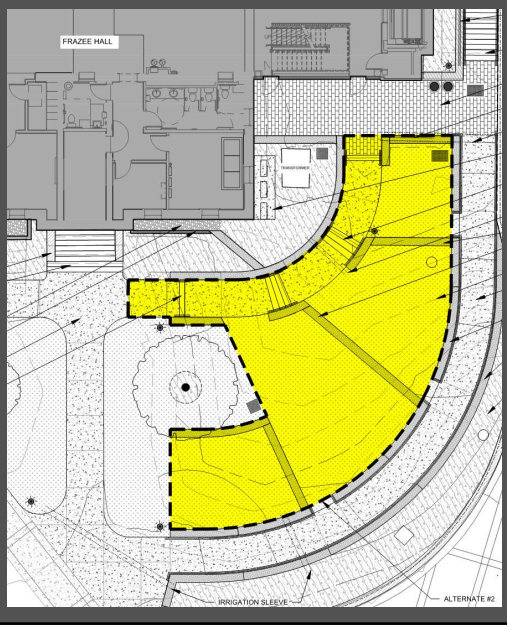
Base Bid
- All Security Pathways
- 16 Doors with Security

Add Alternate
- 54 Added Doors with Security

Base Bid HW	Alt 1 HW
1-02	CL01B
AR01	AR01
CKL02	CKL02
1-02	CL01B
CKL01	CKL01
AKR01	AKR01

7

Alternate #2 – Terraced Seat Walls



8

Alternate #3 – Wood Flooring

Base Bid

- Engineered Wood Floor
- Raise depressed slab on deck according to thinner flooring

Add Alternate

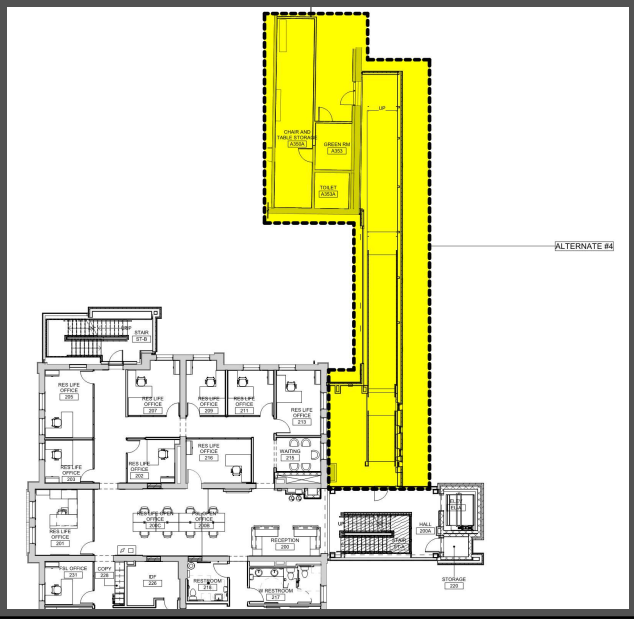
- Hardwood flooring on ¾" sleeper system at slab on deck

A. Engineered Wood Flooring - Type WD1
   1. Species: Maple
   2. Manufacturers:
      a. Armstrong World Industries
      b. Mohawk
      c. Mannington
      d. Shaw Floors
      e. Approved Equal

B. Wood Strip Flooring - Type WD2:
   1. Species: Maple.
   2. Grade: Second and better.
   3. Cut: Quarter sawn.
   4. Moisture Content: 7 to 9 percent.
   5. Actual Thickness: 3/4 inch.
   6. Actual Width: 2 1/4" inches.
   7. Actual Width: Match historic condition.
   8. Edge: Tongue and Groove.
   9. End: End matched.
   10. Length: Random, minimum of 9 inches.

9

Alternate #4 – Pedestrian Walkway



10

Bid Schedule

Bid Questions Due - August 3rd, 2021

Final Addendum – August 10th, 2021

Bids Due - August 17th, 2021 @ 3:00PM EST

*Apparent low bidder to submit Determination of Responsibility forms within 24 hours of bid opening.

Scope review meetings will be scheduled immediately following bid opening.

11

Construction Schedule

Construction Start Date – September 13th, 2021

Sitework & Site Utilities – Sep 15th – Jan 17th

Building Foundations - Oct 28th – Dec 23rd

Structure – Dec 15th – Apr 8th

Skin – Feb 2nd – May 19th

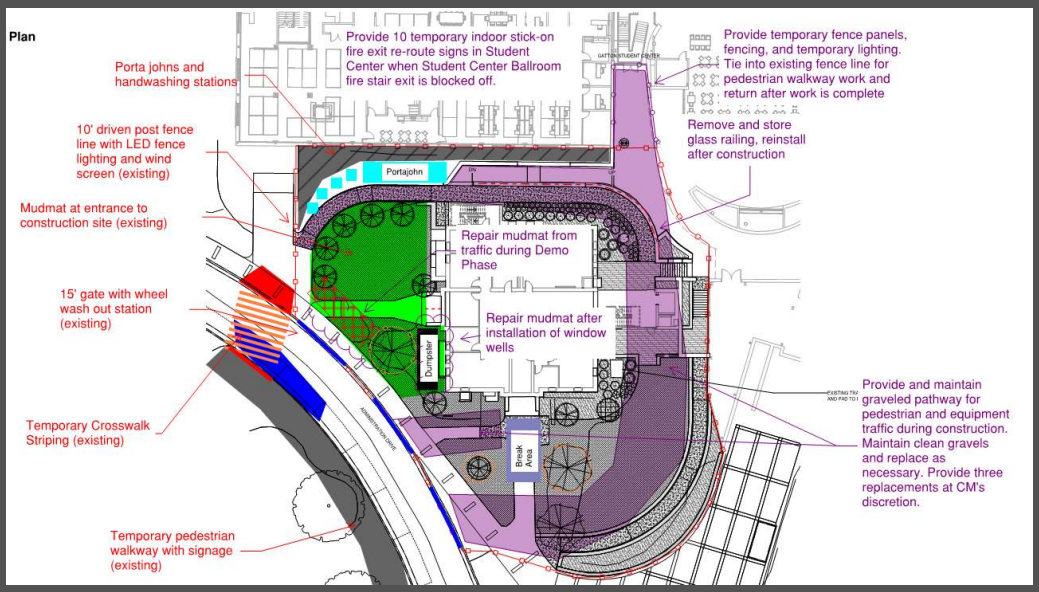
Interior Rough-in – Dec 8th – Apr 18th

Finishes – Feb 7th – Jun 1st

Substantial Completion – June 25th, 2022

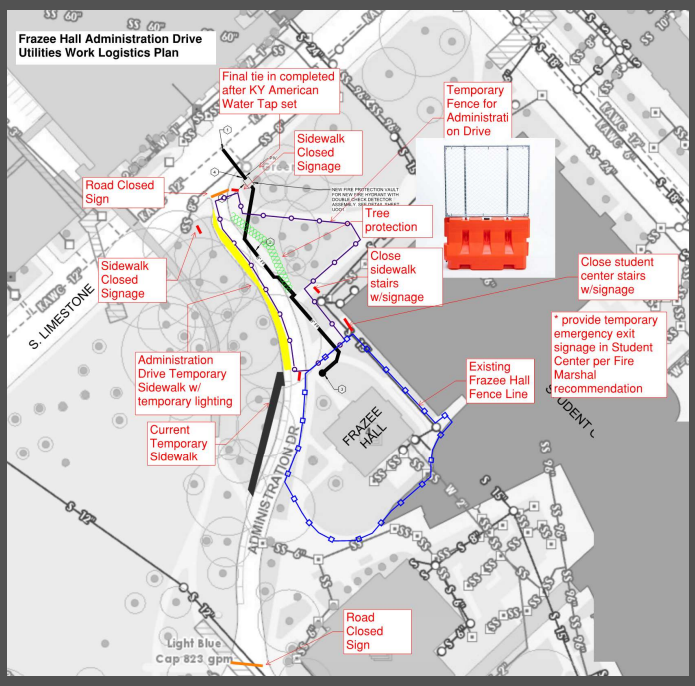
12

Logistics Plan – Part 1



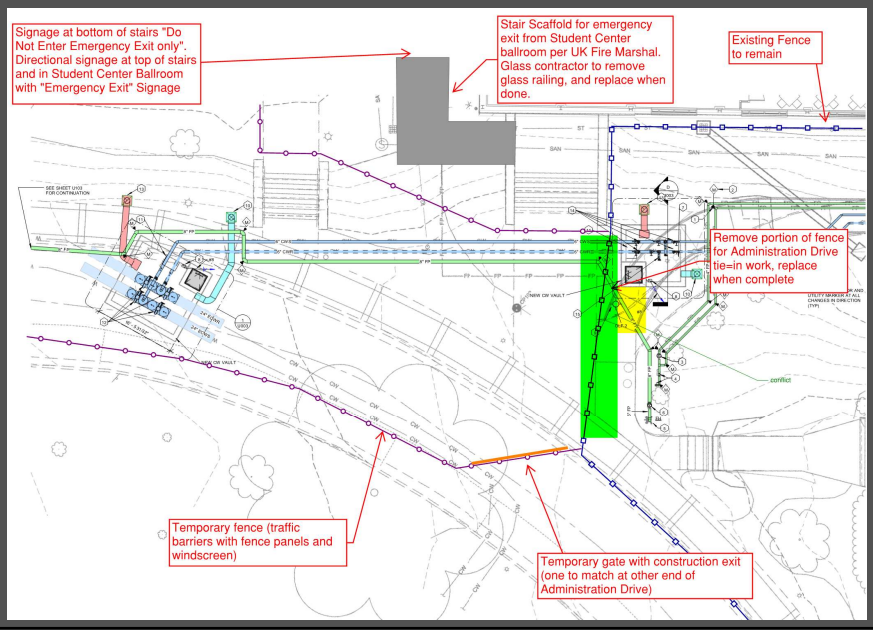
13

Logistics Plan Part 2



14

Logistics Plan - Part 3



15

MBE/WBE Participation

- Goal: 10% of Total Procurement cost to be for participation of Minority-Owned and Woman-Owned Businesses
- It is a request of each Bidder to include in its bid, 10% of MBE/WBE participation
- A Good Faith Effort to achieve the goal shall be made by each bidder. If requirement is not met bidder must submit written documentation of their Good Faith Effort.

16

Safety

REQUIREMENTS

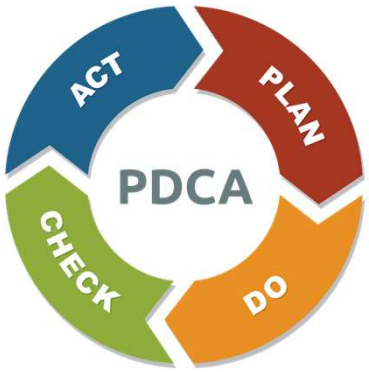
- All Subs
  - Site Specific Safety Plan
  - Silica Control Program
  - Designated Safety Director w/ weekly site visit and report
  - Safety Plans (AHA & PTP)
  - Onsite First Aid Kit and Spill Kit
  - COVID-19 Mitigation Plan
- Foreman/Competent Persons
  - OSHA 30
  - First Aid/CPR
- All Onsite Workers
  - OSHA 10
  - 2 Hour Asbestos and Lead Awareness Training

17

Quality Control

REQUIREMENTS

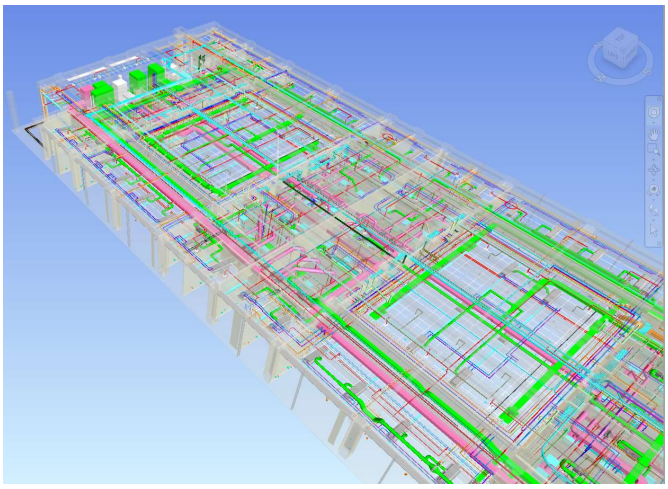
- Project specific Quality Control plan
- On site Quality Control Director
- Weekly QC's and walk throughs with reporting
- "Just in time" deliveries due to limited lay down area
- Collaboration/coordination with WT and other Subcontractors for deliveries and installation
- Tools: Plangrid & Touchplan



18

BIM Coordination

- Laser Scan of existing building completed after Phase 1 Demo
- MEP Subs to model their scope and coordinate with existing field conditions
- 23A to perform clash detection between all MEP models
- See BIM Coordination Plan for details



19

Questions & Answers

20

CCK-2561-22 - Frazee Hall Pre-Bid Meeting Sign-in

Company Name	Name	Email Address	Trade Package(s)
TJ Dyer	Kyle Lemmink	klemmink@tjdyer.com	Plumbing
Staggs & Fisher Consulting Engineers	Wayne Thomas	Wthomas@sfengineering.com	Design Team
Staggs and Fisher	Dan Bransom	dbransom@sfengineering.com	Engineering
O'ROURKE Wrecking Conpany	Jeremy Hudson	Jhudson@orourkewrecking.com	Demolition
Renaissance Historic Exteriors	Brian Lockie	Blockie@renroof.com	Roofing, masonry
S and D Construction Management Inc.	Sean Edwards	seanedwards89@gmail.com	Demolition, General Trades
UK	Sandy Redmon	Sredmon@uky.edu	Not applicable
Staggs & Fisher	Melissa LaClair	Mlaclair@sfengineering.com	Design team
Frei Mechanical Contractors	Charley Handel	charleschandel@aol.com	Mechanical & Plumbing
Kemper Construction	Timothy Poynter	tpoynter@kemper.construction	All
Kalkreuth Roofing and Sheet Metal	Justin Spillman	Jspillman@krsm.net	Roofing, Metal Panels
Lord Aeck Sargent	Elisabeth Hunt	Elisabeth.hunt@lordaecksargent.com	Architect
Richard Goettle, Inc	Clayton Plute	Cplute@goettle.com	Deep Foundations
UK	Ken Scott	Kesc245@uky.edu	N/A
Dixon Electric	Shane Coomer	Shane.coomer@dixonelectric.com	Electrical
Lagco Mechanical	Jamie Beazley	jamie@lagco.com	Mechanical
Arrow Electric Co Inc	Bowen Hockensmith	bhockensmith@arrowelectric.com	26A. Electrical
Facility Commissioning Group	Todd Yates	todd@facomgrp.com	Commissioning Provider
E.C. Matthews Company	Patrick Thurston	Pthurston@ecmatthews.com	01B, 03A, 05A
Central Kentucky Glass	Dennis Martin	Dennis@ckgemail.com	Glass and Glazing
H&R Mech	Rick Napier	Rnapier@hrmech.com	Mechanical
Green city demolition	Marshall caudill	Marshal@greencitydemolition.com	Demolition
RCF Group	Brandon Lucas	brandon.lucas@thercfgroup.com	Demontable Partitions, Marker Boards, Shades, Signage, Landscape Construction/Management, Furniture and Furnishings, Decommissioning Services, Move Management Services
Cutter Pulliam Electric	Bill Hostetler	cpe001@windsteam.net	26A
Johnson Controls Fire Protection LP	William Fraley	william.fraley@jci.com	Alarm / Detection
The Blinds Man	Steve McDonald	smcdonald@theblindsman.net	Shades blinds shutters Motorization

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 00A – Combination Bid Packages

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
COMBINATION BIDS
TRADE CONTRACT NO.: 00A
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

Combination Bid Packages

Instructions:
When submitting a combination bid please place check marks below to indicate which work categories you are including in this form and fill in the lump sum and alternate prices for that combination. (Bidder must check a minimum of two boxes to qualify as a combination bid.) With this proposal you must also submit pages 8 through the end of the Forms of Proposal from each individual bid packages. By completing a combination bid you are responsible for the information included in each individual bid package (including general work requirements, scope of work, etc.).

Work Categories: Please Indicate ALL Work Categories Included in Your Bid	Must Check at Least Two
1. 01B – General Requirements	☐
2. 02B – Selective Demo	☐
3. 03A – Concrete	☐
4. 04A – Masonry	☐
5. 04B – Façade Repair	☐
6. 05A – Structural & Miscellaneous Steel	☐
7. 06A – Architectural Woodworking	☐
8. 07A – Roofing	☐
9. 07B – Waterproofing	☐
10. 07C – Metal Panels	☐
11. 07D – Fireproofing	☐
12. 08A – Doors, Hardware & Security	☐
13. 08B – Glass & Glazing	☐
14. 09A – Metal Framing, Drywall & Ceilings	☐
15. 09B – Flooring	☐
16. 09C – Painting & Refinishing	☐
17. 09D – Ceramic Tile	☐
18. 10A – Accessories	☐
19. 10B – Demountable Partitions	☐
20. 10C – Signage	☐
21. 12A – Window Treatments	☐
22. 14A – Elevator	☐
23. 21A – Fire Protection	☐
24. 23A – Plumbing, HVAC & TAB	☐
25. 23B – Controls	☐
26. 26A – Electrical & Fire Alarm	☐
27. 31A – Sitework & Utilities	☐
28. 31B – Deep Foundations	☐
29. 32A – Landscape & Irrigation	☐
30. 32B – Hardscape	☐

For clarity, write on the line below which Work Categories are included in this bid.

Work Categories Included: _____

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies, and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF_____
(USE WORDS)
_____DOLLARS AND_____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

TRADE CONTRACT – 00A – COMBINATION BIDS

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 00A – COMBINATION BIDS

All Work Categories are to be used as references for information regarding the combination bids noted above. Individual Work Categories will be combined to form the combination bids, with all scope and form items in the individual Work Categories applying.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 01B – General Requirements

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
General Requirements
TRADE CONTRACT NO.: 01B
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all Subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____ CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____ CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All Subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following Subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

Revised 3/22/06

TRADE CONTRACT – 01B – General Requirements

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 01B – General Requirements

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they relate to this General Requirements scope of work

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.

2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents. Additionally, this Subcontractor will provide to the Construction Manager (5) one-year PlanGrid "Crane" licenses to use at their discretion. These licenses shall go into effect starting January 3rd, 2022. Emails for licenses to be confirmed with the Construction Manager.

3. Site Fencing – This Subcontractor shall provide and install temporary fence (fence panel on water filled jersey barrier) and road/sidewalk closure signage per logistics plan. This subcontractor shall rework fencing for each phase of construction. (See logistics plan for locations and amounts of fencing and temporary signage.) This subcontractor shall provide a fencing allowance of $10,000 and a signage allowance of $5,000 to be used for items above-and-beyond what is shown in the logistics plan. At any time during the course of the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor.

4. Erosion Control Maintenance – This Subcontractor is responsible for the development, permitting and installation of a SWPPP for all additional areas for this project phase. This shall include but not be limited to the

Administration Drive utilities work. This Subcontractor will also be responsible for maintenance, and removal thereof, of all erosion control measures and jobsite entries for the duration of the project.

5. Safety – This Subcontractor has included $10,000 for WT safety to be directed by the Construction Manager. The Construction Manager will direct the use of these costs to replace safety equipment, provide safety incentives, etc. through the duration of the project.

6. Building Shoring – This Subcontractor shall provide and install engineered shoring system throughout existing building, continuously from foundation to third floor, to support structural modifications of existing building. See Demo/Reconstruction Sequencing Notes on S200 series drawings. Modify and remove shoring as demolition and construction progresses. Provide shoring at location of new girder/CMU wall. (S201 - Note 6) In addition, this subcontractor shall provide a $10,000 allowance for additional building shoring to be used as directed by the Construction Manager. At any time during the course of the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor.

7. Wood Framing – This subcontractor shall provide and install all new wood framing per the contract documents to include but not be limited to the following:
   - Provide and install new wood floor and ceiling joists as shown on structural drawings.
   - Replace wood joists as necessary to accommodate new work. (S201 - Note 5)
   - Provide and install all new joist hangers including where joists are supported by CMU (S201 - Note 10)
   - Provide and install new wood girders and new supports for girders. (S201 - Note 7 & Note 8)
   - Provide and install new wood ledger for support of subfloor. (S201 - Note 13)
   - Provide and install wood bracing at new columns and at top chords of wood trusses. (S201 - S203 - Note 15; S204 - Note 2)
   - Provide and install framed openings for new attic and roof hatches. (AD104 - Note 4; S204 - Note 6 & Note 9)
   - Provide and install new wood roof rafters at location of elevator demo. Provide new roof sheathing at same location and provide temporary protection of area until roofer is onsite. (S204 - Note 5)
   - Provide and install wood framing at roof MEP penetration (S204 - Note 10)
   - Provide and install wood blocking at roof ladder and at post were not supported by girder (S204 - Note 11 & Note 12)
   - Provide and install all support and blocking as required for tie-back anchors in existing roofing. Coordinate with 07A sub for locations and sizing. (S204 - Note 13)
   - Provide and install wood framing and subfloor to infill the floor at the recessed area left at the two fireplaces on the first floor.

8. Subflooring - This Subcontractor shall provide and install new subflooring throughout existing building. See floor sheathing layout J/S403. This subcontractor shall provide and install new wood platform in attic at top of access hatch as indicated on the contract documents.

9. Existing Building Structural Modifications – This subcontractor shall provide and install new steel floor support for existing building. This shall include but not be limited to the following:
   - Shoring and cutting existing wood floor joists, “sandwiching" new steel beam with wood joists and through-bolting and reattachment of existing wood joists at new support beam. (Detail A/S406; Detail J/S407)
   - All steel including new columns, baseplates, anchor bolts, embeds and beams. (S200 - Note 9)
   - All embeds for existing building structural modifications, demo of existing masonry wythes to create beam pocket and filling the beam pocket with non-shrink grout (Detail A/S406)

10. Built-up Lintel – This Subcontractor shall provide and install built-up steel lintel at existing load-bearing masonry wall. (Detail B/S408) See lintel installation notes and coordinate with 02B subcontractor for demolition of exterior wall.

11. Existing Pavers – This subcontractor shall remove existing pavers from limits of construction and store offsite. (C-103 - Note 18) Store already removed pavers offsite as well. (C-103 - Note 8) Deliver back to site when hardscape subcontractor is ready for reinstallation.

12. Housekeeping & Equipment Pads - Provide and install all housekeeping and equipment pads both interior and exterior. (U100 - Note 23; H301) Provide and install curb for fan plenum case per HVAC drawings. (H301)

13. Protection of Existing to Remain Items – This subcontractor shall protect the following existing items to remain:
    Protect limestone threshold at Level 1 entrances plan south and plan west. (AD101 - Note 3)
    Protect limestone cheek walls to remain at exterior stair plan south. (AD202 - Note 1)
    Protect all door frames and door frame trim to remain both at interior and exterior doors. This subcontractor shall also provide protection at new door frames once installed.

14. Weather Protection - This subcontractor shall maintain all temporary weather protection installed by others at exterior openings. The intent is to prevent any major water intrusion into the existing building. If temporary weather protection is damaged through the course of construction or if major water intrusion occurs this subcontractor shall be responsible for repair, replacement, or reapplication of temporary measures. This subcontractor shall provide temporary weather protection at broken window at entrance (AD201 - Note 5)

15. Fall Protection - This subcontractor shall maintain all fall protection installed by others at exterior openings. If temporary fall protection is damaged through the course of construction this subcontractor shall be responsible for repair, and replacement of said fall protection. This subcontractor shall remove fall protection as construction progresses and fall protection is no longer required.

16. Folding Access Ladder - This subcontractor to provide and install metal folding ladder and hatch for access to attic. Also provide and install associated safety rail at access opening.

17. Crawlspace Vent - This subcontractor shall replace vent at bottom of limestone wall with solid metal cover. (A201 - Note 2)

18. Precast Concrete Treads – This Subcontractor shall provide and install precast concrete stair treads as required by the contract documents.

19. This subcontractor shall provide and install grout for the infill of the elevator door sills. This subcontractor shall also slope ledges inside of elevator shaft using mortar.

20. This subcontractor shall purchase twenty (20) E Permit parking passes for the full duration of the project. These passes shall be used at the sole discretion of the construction manager to be assigned to subcontractors for parking near site.

21. This subcontractor shall provide a shooting boom forklift (lull) with a minimum 42’ lift height for the full duration of the project. This lull will be shared by all subcontractors throughout the course of the project and all subcontractors shall provide their own operator. The primary use will be for offloading deliveries and booming material up to the required floor. Use of the lull must be scheduled and final approval for use must be given by the WT Superintendent.
    This subcontractor shall provide all fuel and maintenance for the lull for the duration of the project.

22. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0. Items listed below shall part of this subcontractor’s scope for the add alternates. This list is NOT a comprehensive list and is only intended as additional clarification.

a. Alternate No. 4 – Protect existing to remain electrical and A/V equipment in student center. (AD102 – Note 1)
b. Alternate No. 4 – Remove, protect, store and reinstall monitor in Green Room. (AD102 – Note 5)

23. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

24. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail.

25. Appropriate Common Requirements:
    a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
    b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
    c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
    d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
    e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices; as may be issued from time to time by Whiting-Turner personnel.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 02B – Selective Demolition

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
Selective Demolition
TRADE CONTRACT NO.: 02B
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all Subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Foreman	HR	$
Laborer	HR	$

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All Subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following Subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

Revised 3/22/06

TRADE CONTRACT – 02B – Selective Demolition

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 02B – Selective Demolition

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they related to the Selective Demolition scope of work.

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work – It is the intent for this project that the Selective Demolition Subcontractor performs all the work as scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% supervision, labor, material, equipment, tools, appliances, warranties and guarantees, and everything necessary to selectively demolish, and prepare Frazee Hall for follow on renovation in full compliance with the Contract Documents.

2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.

3. Stair A & Elevator Shaft Demo – This Subcontractor shall demolish existing Stair A, Elevator Shaft and associated remaining walls that support these structures. This shall include but not be limited to the following:
   - Demo Stair A and all remaining handrail and handrail anchors/supports (AD100 - AD105 - General Note B)
   - Demo Elevator Shaft (AD100 - AD105 - General Note G; AD104 - Note 2) Demo existing roof rafters attached to elevator shaft (S204 - Note 5) Demo concrete slab and steel joists over existing elevator shaft. (S204 - Note 7)
   - Demo shaft walls to the plan north and plan south of existing Stair A
   - Demo wall plan west of Stair A all floors. This currently supports Stair A and should be demoed along with Stair A demo.
   - Demo third floor wall in front of elevator (AD 103 – Note 1)
   - During demo of elevator shaft, coordinate with 01B subcontractor for temporary patching of roofing.

4. Exterior Wall at Stair A – This Subcontractor shall demolish the exterior wall adjacent to Stair A for the full height of the building. (AD100 & AD101 - Note 1; AD102 & AD103 - Note 2; AD203 - Note 2) This Subcontractor shall coordinate with 01B for lintel

5. Exterior Components Demo – This Subcontractor shall demolish existing exterior components. This shall include but not be limited to the following:
   - Demo existing window well x3 (AD201 - Note 6; AD202 - Note 5; C-103 - Note 16))

- Demo basement stair, retaining wall, canopy, railing, and door at plan south (AD100 - AD105 - General Note E; AD202 - Note 4 & Note 6)
- Demo exterior stairs at plan south, limestone cheek walls and threshold to remain (AD100 - AD105 - General Note D; AD202 - Note 1)
- Demo remaining outside air units and associated piping into building (C-103 - Note 15)
- Demo and salvage cornice at building exterior. (AD201 - Note 3; AD 204 - Note 7)

6. Interior Components Demo – This Subcontractor shall demolish remaining interior components. This shall include but not be limited to the following:
   - Cut and demo new openings in bearing walls (AD100 - AD105 - General Note C)
   - Demo concrete over wooden joists Level 01 (AD101 – Note 4)
   - Cut and demo portions of exterior wall for new Stair B doors (AD 204 - Note 2)
   - Demo existing pipe columns, wood girders and steel posts all levels. (AD100 - AD105 - General Note F; S201 - Note 14) Coordinate with 01B for this work as shoring must be complete prior to removal. Also include demo of existing footings for pipe columns. (S200 - Note 13)
   - Demo attic access hatch. (AD104 - Note 1)
   - Demo masonry walls at locations where fireplace/chimney once existed. (Not noted but shown as a dashed line at plan south of AD100 & AD101.)
   - Remove extruded nails from bottom of wood floor joists at all locations where wood floor joists will remain exposed to view or where they will impact the installation of new finishes.

7. Basement Floor Demo – This Subcontractor shall cut and demolish basement flooring, subflooring and floor supports, to include but not limited to all wood subflooring on wood joists, concrete on wood joists and concrete slab on grade to the limits shown and as required for the installation of shoring, new foundations and under slab MEP items. (S200 - Note 7)

8. Remaining MEP Demo – This Subcontractor shall demolish existing MEP utilities under basement flooring and demo all other MEP items remaining in building. (AD100 - AD105 - General Note H)

9. Hazardous Materials – All known Asbestos Containing Materials (ACM) where removed during an earlier bid package. This subcontractor shall provide an allowance of $20,000 to abate and remove any unknown ACM that may be uncovered during this phase of demolition and construction. At any time during the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor.

10. This Subcontractor shall provide and additional 100 labor hours for additional demolition that is above-and-beyond what is required for this scope of work.

11. Plaster Removal – This Subcontractor shall remove plaster from bearing wall on Level 02 and 03, plan West. See dashed walls on AD102 & AD103

12. Window Casings – This Subcontractor shall remove all window casings scheduled to be demolished in Contract Drawings.

13. Disposal – This Subcontractor shall provide a means of disposal for all steel, concrete and masonry demolished within this scope of work.

14. Shoring – This Subcontractor shall coordinate with 01B for building shoring prior to demo of any structural items. This Subcontractor shall also provide miscellaneous/supplemental shoring at shaft walls, exterior wall, door openings where main building shoring is not present.

15. Coordination – The Subcontractor acknowledges that portions of this Subcontractor's scope of work are to be completed in conjunction with work by others and agrees to all coordination and sequencing as required. All demolition activities that could affect nearby occupied buildings must be cleared with the Construction Manager one week in advance. All deliveries must be coordinated with the Construction Manager in advance of the delivery.

16. Weather Protection – This Subcontractor will provide weather protection on existing building after demolition is complete. As a portion of the existing building exterior becomes demolished and exposed to the outside elements and weather, this Subcontractor shall provide weather protection on that particular portion to ensure no weather damage will occur.

17. Fall Protection - At any opening created by this subcontractor that creates a fall hazard of greater than 6ft, this subcontractor shall provide a permanent means of fall protection which meets all OSHA and Whiting-Turner fall protection standards. This includes, but is not limited to, installing fall protection at Stair A, window openings and window / door wells.

18. Scaffolding – This Subcontractor shall provide, maintain, and dismantle designed scaffold systems necessary to complete the demolition scope of work.

19. Out of Sequence Work – This Subcontractor agrees and understands that some work may be required to be performed out of sequence to facilitate the construction schedule. This will include at a minimum three mobilizations to perform selective demolition.

20. Protection – This Subcontractor shall take measures required to protect existing structures during all work performed. This Subcontractor is to provide dust control measures and public safety mechanisms to be adequate to owner's standards for the University of Kentucky's campus. All protective measures are to be outlined in Subcontractor's site plan and schedule to be given to Whiting-Turner Construction Manager prior to any work beginning.

21. Protection of Materials – This Subcontractor is responsible for the protection of adjacent materials and finishes products prior to starting work as well as of the work installed by this Subcontractor. Damage to adjacent surfaces or finish products will be repaired or replaced by this Subcontractor at no additional cost to the Owner or Construction Manager.

22. Break Area - This subcontractor shall provide a communal break area for the project. All items will become property of the owner at the conclusion of the project. This shall include providing and setup of the following:
    a) 4x 10x20 tents with window sidewalls ABCCANOPY EZ Pop Up or similar – https://www.amazon.com/dp/B08DKLRJ9M/ref=twister_B088NMLKC6?_encoding=UTF8&th=1
    b) 6x Ceiling mounted outdoor electric heaters DONYER POWER 1500W or similar – https://www.amazon.com/DONYER-POWER-Outdoor-Electric-Ceiling/dp/B07FFPZK4C/ref=zg_bs_553782_19?_encoding=UTF8&refRID=PET8HE1GEF712YB5N7EW&th=1
    c) ~~6x~~ 4x Commercial outdoor fans Tornado 24 Inch or similar – https://www.amazon.com/Tornado-Circulator-Industrial-Commercial-Residential/dp/B07DVPWG6L/ref=sr_1_9?dchild=1&keywords=outdoor+fans&qid=1626131257&sr=8-9
    d) 1x Large Evaporative Cooler. Hessaire MC61M or similar - https://www.amazon.com/Hessaire-Products-MC61M-Mobile-Evaporative/dp/B00LBQKTBC/
    e) 10x 6ft plastic folding table
    f) 40x plastic folding chairs
    g) 1x Resin Storage Shed for storage of break area items. Craftsman 7' x 7' Gable Storage Shed or similar - https://www.lowes.com/pd/CRAFTSMAN-Common-7-ft-x-7-ft-Actual-Interior-Dimensions-6-8-ft-x-6-8-ft-Craftsman-Resin-Storage-Shed-Gable-Storage-Shed/1001052346
    h) 10x 50ft heavy duty extension cords
    i) 5x 100ft heavy duty extension cords
    j) 200x S hooks for extension cord hanging. Checkers Quick Hook or similar - https://www.checkers-safety.com/quick-hook-overhead-hanging-cable-protection

23. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0. Items listed below shall part of this subcontractor's scope for the add alternates. This list is NOT a comprehensive list and is only intended as additional clarification.
    a) Add Alternate No. 4 – Demo interiors in student center as shown
    b) Add Alternate No. 4 – Demo opening in exterior wall of student center

24. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

25. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail.

26. Appropriate Common Requirements:
    - Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
    - Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
    - O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
    - Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
    - Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 04B – FAÇADE RESTORATION

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
Façade Restoration
TRADE CONTRACT NO.: 04B
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Façade Cleaning	SF	$
Repointing	SF	$
L2 Lintel Install	EA	$
		$
		$
		$
		$
		$

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

Revised 3/22/06

TRADE CONTRACT – 04B – FAÇADE RESTORATION

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 04B – Façade Restoration

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

Masonry & Stone as specified in contract documents

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work - This Subcontractor is responsible for all the work as scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% supervision, labor, material, accessories, equipment, tools, shop drawings, submittals, layout, unloading, appliances, rigging, ladders, hoisting, scaffolding, transportation, taxes, warranties and guarantees, and everything necessary to completely furnish and install all of the required concrete unit masonry in full compliance with the Contract Documents. This Subcontractor shall install the following items furnished and delivered by others: All L2 steel lintels at new and existing masonry openings within the existing building; Recessed mounted Knox box

2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.

3. Façade Restoration – This Subcontractor shall furnish and install all necessary materials for a comprehensive façade restoration in strict compliance with the contract documents. This shall include but not be limited to:
   - Repoint 10% of existing brick/stone façade
   - Clean all existing brick/stone façade
   - Repoint existing stone stairs per A531
   - Repoint stoops per A532
   - Remove fire escape anchors and install and repoint brick and install and repoint brick where anchors are already removed. (AD204 Note 3 & Note 4) This is above-and-beyond the 10% repointing allowance.
   - Patch and repair holes in limestone and remove stair bracket from limestone. (AD204 - Note 5 & Note 6)
   - Patch limestone where existing stair railing has been removed. (AD201 - Note 1)
   - Install the new recessed Knox box within the existing masonry façade.
   - Furnish and install all materials required at the masonry infill for the new door openings at Stair B. Façade material to match existing adjacent material. (A222 - Detail A3; A602 - Detail C4) Lintels provided by others and installed by this subcontractor.
   - Replace damaged bricks, assume approximately 200 bricks to match existing. (A201 - A204 - General Note B)
   - Investigate all existing steel lintels and notify the construction manager of which lintels require replacement.

- Repair upper and mid-level metal cornice where significant damage or corrosion has occurred. Replace areas in kind, assume 25%. (A201 - A204 - General Note H)
- Repoint Kentucky Limestone base, assume 10% (A201 - A204 - General Note I)
- Repoint all headers and sills at Indiana Limestone. (A201 - A204 - General Note J)
- Provide and install brick infill noted on A211. This is above-and-beyond the 200 replacement brick.
- Provide and install mortal infill below limestone cheek walls and limestone base at NW building entrance (A531).
- Strike vertical and horizontal at limestone threshold. Install mesh weep and repoint mortar joints. NW and SW entries (A531 & A532 - Note 6).
- Patch damaged sections of limestone stairs (A531 & A532).
- Replace concrete trim at door entry, replace in kind (A532 - Note 3).
- This subcontractor shall supply and install all materials required at the masonry infill for the stone window infill (A607 - Detail A1) This shall include but not be limited to all: Concrete masonry units, stone veneer, cut stone sill.

4. Historic Interior Masonry - This Subcontractor shall furnish and install all necessary materials to complete all scope related to the patching and repair of the historic interior masonry in strict compliance with the contract documents. This shall include but not be limited to:

- Repoint 10% or interior brick. (A611 - General Note B)
- Clean all existing brick (interior)
- Install L2 lintels at new and existing masonry openings inside of existing building
- Patching of all trenches in masonry where electrical contractor is required to conceal new conduits in existing walls.
- Removal of all existing anchors and patching of holes at all existing interior masonry walls to remain.
- Patching of holes and penetrations left from the demolition of the existing Stair A. This shall include anchor holes from the handrails and holes from structural anchors from the stair itself.
- There is an existing masonry shaft at the basement and third floor that was damaged during the Phase 1 demolition that requires patching. This will require patching approximately 20sf of brick.
- Patching of existing penetrations through masonry walls that are not re-used for the new MEP trades. Bidders should walk the site and review the extent of existing penetrations.

5. Patching & Repair – This subcontractor shall provide an allowance of $5,000 for façade patching and repair that is above-and-beyond what is required for this scope. At any time during the course of the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor.

6. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

7. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a

detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail.

8. Appropriate Common Requirements:
   - Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
   - Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
   - O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
   - Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
   - Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.

9. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 07B – Waterproofing

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
Waterproofing
TRADE CONTRACT NO.: 07B
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all Subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Installer	HR	
Foreman	HR	
Below-grade WP	SF	
Air & Vapor Barrier	SF	
Expansion Joint	LF	

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All Subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following Subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

Revised 3/22/06

TRADE CONTRACT – 07B – Waterproofing

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 07B – Waterproofing

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All specifications as they relate to the Waterproofing scope of work.

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.

2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.

3. Joint Sealers/Sealants – This Contractor shall furnish and install all joint sealants to dissimilar materials and all necessary materials for a comprehensive installation in strict compliance with the contract documents. All provisions required for this unit of work are applicable to this work. The Subcontractor shall exclude all hardscaping sealant, and all joint sealant to similar materials. Examples of responsibility are as follows, but are not limited to:
   - Gypsum Sheathing to Adjacent
   - Concrete to Adjacent
   - Metal Panel to Adjacent
   - Window/Curtain Wall to Adjacent
   - CMU, Brick or Stone to Adjacent
   - Steel to Adjacent

4. Below Grade Applied Waterproofing - This subcontractor shall install water proofing below grade at site retaining and seat walls per details on the LH series drawings. This shall include all drainage and protection board. This subcontractor shall be responsible for all applied waterproofing at elevator pits, window well retaining wall and manholes as shown on S701. This shall include all drainage and protection board. This subcontractor shall provide below grade waterproofing at

5. This subcontractor shall provide and install all expansion joint and expansion joint covers that are part of specification section 079200 and 079513. (See A522 – A527 for majority of expansion joint details) This shall include all interior and exterior expansion joints to include but not be limited to the following:
   - Foam Seals
   - Compressions Seals
   - Floor to floor expansion joints
   - Floor to wall expansion joints
   - Wall expansion joints
   - Ceiling expansion joints
   - Foam seals between roof and existing building (A525 – Detail D5 & E10)

6. Miscellaneous Waterproofing Items - This subcontractor shall include the following items:
   - Crystalline waterproofing slurry
   - Bituminous damp proofing
   - Apply backer rod and joint sealant at all entry perimeter and jamb edges (A531 & A532 – General Note G)
   - Provide waterproofing membrane and drainage layer at historical entries (A532)

7. Air and Vapor Barrier – This Contractor shall furnish and install all Fluid-Applied Air and Vapor Barrier for a comprehensive installation in strict compliance with the contract documents on all exterior sheathing. This shall apply to all substrates behind all skin types.

8. This subcontractor shall provide an allowance of $5,000 for additional waterproofing that goes above and beyond this scope of work. At any time during the course of the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor.

9. Mockup – This Subcontractor shall furnish and install Joint Sealants as described above for the project mockup. All provisions required are applicable to this scope of work.

10. Surface Preparation - This Subcontractor will provide misc. surface preparation if minor work is required to install this scope of work. In the event this Subcontractor discovers large areas of substrate that have not been prepared per specification or manufacturer's requirements, this Subcontractor will provide written notification to the Construction Manager in order for others to fix.

11. Weather – Subcontractor shall proceed with his work only when weather conditions comply with Manufacturer's recommendations and will permit the materials to be applied in accordance with those recommendations.

12. Watertight system - The complete waterproofing system is to be installed watertight. Damage to finished materials of other Subcontractors and vendors resulting from leaks in the waterproofing system shall be the responsibility and liability of this Subcontractor, including all direct and indirect costs of repair.

13. Metal Flashing – This Subcontractor shall furnish and install stainless steel flashing as required by the contract documents.

14. Waterproofing Consultant – This subcontractor shall hire a third-party waterproofing consultant to complete a plan review for all waterproofing details to ensure details are acceptable for watertightness. This consultant shall also conduct first work inspections of major waterproofing systems to include but not be limited to the following: below grade waterproofing, vapor and air barrier, joint sealants, expansion joints, windows, curtainwall system, etc.

15. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

16. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail.

17. Appropriate Common Requirements:
    a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
    b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
    c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
    d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
    e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices; as may be issued from time to time by Whiting-Turner personnel.

19. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0. Items listed below shall part of this subcontractor's scope for the add alternates. This list is NOT a comprehensive list and is only intended as additional clarification.
    - Add Alternate No. 4 – Waterproofing at Pedestrian Walkway
        - Expansion joints between walkway and existing buildings

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 08B – Glass & Glazing

Project No. 2511.8 Project Title: Renew/Modernize Frazee Hall
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION
PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
Interior Glass, Glazing, & Metal Panels
TRADE CONTRACT NO.: 08B
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO._____ DATED _____

ADDENDUM NO._____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Installer	HR	
Foreman	HR	

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

Revised 3/22/06

TRADE CONTRACT – 08B – Glass & Glazing

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

The work covered under this Contract includes but is not limited to the following specific work items:

Unit 08B – Glass & Glazing

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

Interior Glass, Glazing, & Metal Panels as specified in contract documents

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work – It is the intent for this project that this Subcontractor perform all the work as scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% supervision, labor, material, equipment, tools, appliances, warranties and guarantees, and everything necessary to completely detail, fabricate, tag, and deliver F.O.B. to jobsite, and install all of the required:
   - Provide and install curtainwall at new stair towers. This shall include all accessories such as anchorage brackets, extruded trim, internal weep drainage system, etc.
   - Provide and install new windows at existing openings. This shall include but not be limited to the following:
     - Removal of temporary opening protection (plywood and handrail) just prior to new window install.
     - Removal all exterior brick trim
     - Surface preparation at existing opening
     - Provide all new fire-retardant treated wood blocking
     - Provide flashing at head, jambs, and sills that extend full depth of window frame
     - Provide exterior perimeter caulk joint that adheres to both profile panning and flexible flashing membrane in each opening.
   - Provide and install new storefront windows at new bridge and stair tower.
   - Provide and install new storefront frames, doors and hardware including electrified hardware. Security devices and wiring will be by others.
   - Provide and install all glazing to include insulated glass, tempered glass, infill panels, spandrels, silk screened ceramic frit glass etc.
   - Provide and install applied film to all glazing as shown on the contract documents. (Ex. - see remarks on door schedule.)
   - To the best extent possible this subcontractor shall verify rough-opening dimensions for windows and door prior to fabricating.
   - Provide and install all joint sealants, air seal, weather barrier/seal, edge seal, gasket seal, etc. associated with this scope of work.
   - This subcontractor shall be responsible for all means of access including all scaffolding, lifts, etc. to complete the installation of this scope of work.

- This subcontractor shall remove, store, protect and reinstall existing railing and glass from site retaining wall as shown on LH101. This subcontractor shall do the same for the glass railing at the Student Center exit stair during the duration for the Administration Drive shutdown. (This is shown on page 3 of the site logistics plan.) Storage shall be maintained offsite due to limited site storage.
- This subcontractor shall provide and install new glass railing at top of exterior retaining walls to include all anchoring, support steel tubing, rail shoe, glass, top railing, grout and joint sealants.
- This subcontractor shall provide and install joint sealants relating to this scope of work. This shall include joint sealant between curtainwall and steel shown on A524 - Detail A1.
- This subcontractor shall provide and install the smoke baffles around the perimeter of Stair A.
- Provide and install clear float glass at NW entry door (A531 - Detail F5).
- Provide and install film on widows as required by the contract documents.

This work will be completed in full compliance with the Contract Documents. The technique used to install this scope of work will be the responsibility of this contractor. The techniques established shall allow for all requirements set forth in the Contract Documents.

2. Materials & Accessories – This Subcontractor shall furnish and install all flashing, trim, wood blocking, caulking, accessories, anchors, fasteners, clips, aluminum framing, glazing, dustless strikes, extruded aluminum caps with insulation where window mullions meet walls, anchors and any other items necessary to furnish and complete the systems associated with this unit of work as detailed within the Contract Documents.

3. Doors & Accessories – This Subcontractor shall furnish and install all storefront doors, hardware, glazing, thresholds, fasteners, closures, power supplies, handicap push buttons, exit devices, weather stripping, and accessories for storefront doors. This Subcontractor shall provide necessary raceways for electrical wiring, security wiring, etc. within all doors and frames provided within this scope. This Subcontractor will wire all low voltage connections from auto operators to the push buttons. 120 V power and wiring from power supply and upstream will be by others.

4. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.

5. Glass Handrails - This subcontractor shall furnish and install the glass guardrails as shown on the landscaping plans. This shall include removal, offsite storage and reinstallation of existing glass guardrails.

6. Flashing – This subcontractor shall be responsible for all pre-finished aluminum flashing and trim that is directly adjacent to all windows, storefront, and curtainwall. This shall include but not be limited to all window head, jambs and sills.

7. Caulking – This Subcontractor shall furnish and install all interior caulking and sealants, backer rod, and fastener penetrations for all the items associated with this unit of work. This includes caulking this Subcontractors work to the adjacent substrates and surfaces to complete a complete and final product.

8. Shop Drawings and Coordination – This Subcontractor shall provide all of the required coordination between the approved shop drawings and the preparation and fabrication of the glazing systems. This Subcontractor will be responsible for the reproduction of all shop drawings and other submittals including the cost thereof. This includes "field use" shop drawings that are to be sent to the jobsite immediately after shop drawings have been approved. This Subcontractor shall immediately commence with the preparation of all items to be submitted/approved as required by the Construction Documents.

9. Coordination – This Subcontractor acknowledges that portions of this Subcontractor's scope of work are to be installed in conjunction with work by others and agrees to all coordination and sequencing as required by the Construction Manager. Coordinate all deliveries with the Construction Manager.

10. Field Measurements – This Subcontractor shall be responsible for field measurements as required to perform this scope of work. The requirements of field measurements shall not alter or extend the contract schedule.

11. Existing Structures – This Subcontractor shall survey and examine all existing adjacent structures to determine all information necessary to furnish and install the glazing systems. This Subcontractor shall clean or repair any damage to existing structures that results from executing this Scope of Work.

12. Storage – This Subcontractor is responsible for protection of all stored materials on site. Store materials in an upright position, off the ground, undercover, and protected from weather, direct sunlight, and construction activities. Protect materials and finish during handling and installation to prevent damage. Special precautions will be required due to increased wind loading and weather conditions.

13. Protection of Materials – This Subcontractor is responsible for the protection of adjacent materials and finishes products prior to starting work as well as of the work installed by this Contractor. Damage to adjacent surfaces or finish products will be repaired or replaced by this Contractor at no additional cost to the Owner or Construction Manager.

14. Craftsmanship – This Subcontractor understands that the work performed under this Trade Contract is an integral part of the finish product and will install all such items in a manner clearly indicative of the best trade practices possible. Any items installed in a manner not representing the best workmanship possible shall be reworked until they meet with CM approval. This work shall be done at no additional cost to the Construction Manager or Owner.

15. Samples – This Subcontractor shall provide samples for initial material selection and for verification with specified size, type, and quantities as stated within the Specifications.

16. Cleaning – This Subcontractor shall clean all glazing and frames upon completion of his work. This includes the removal of all stickers, sealants, or other items that are not cleanable with soap and water if these were caused by this Subcontractor's work. It is agreed that a final cleaning shall not be included in this scope of work.

17. Acceptance of Substrates – This Subcontractor will verify the dimensions and any other conditions (including moisture content) of the substrate to confirm that it is acceptable prior to beginning this unit of work. This Subcontractor should review the substrate and notify the Construction Manager in writing of any deficiencies. Commencement of this unit of work shall constitute acceptance of substrates.

18. Supplemental Framing – This Subcontractor shall provide any supplemental framing requirements to properly support this work that is not shown on the contract documents.

19. Surveying – It is this Subcontractors responsibility to survey opening sizes, supports, and other conditions affecting this work at least two weeks prior to installation. Notify Whiting-Turner immediately of any problems.

20. Proper Operation – It is this Subcontractor responsibility to install all doors leveled, plumb, and square to ensure a properly functional and operating door.

21. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

22. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning

work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail.

23. Appropriate Common Requirements:

- Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager.
- Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
- O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
- Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
- Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.

24. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0.
    - Add Alternate No. 4
        - Storefront windows at pedestrian bridge
        - Storefront door A300M
        - Storefront door 200H (should be continuous curtainwall in base bid)

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 31A – Earthwork & Utilities

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT
RM. 322 SERVICE BUILDING
411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
Earthwork & Utilities
TRADE CONTRACT NO.: 31A
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO._____ DATED _____

ADDENDUM NO._____ DATED _____

ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of

Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Rock Removal	CY	$
Unsuitable Soil Removal from Site	CY	$
Suitable Soil Removal from Site	CY	$
Soil Haul-in to Site	CY	$
Compacted Stone	TN	$
Laborer	HR	$
Operator	HR	$
Foreman	HR	$
Street Cleaning	HR	$
Flagmen	HR	$

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR
Sanitary & Storm Sewer	
Site Work	
Site Demolition	
Shoring, Bracing, and Underpinning	
Clearing & Grubbing	

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER
Excavators	
Front End Loaders	
Dump Trucks	
Mini-Ex	
Skid-Steer	
Bulldozer	

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

TRADE CONTRACT – 31A – Earthwork & Utilities

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 31A – Earthwork & Utilities

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

Earthwork & Utilities as specified in contract documents

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work – It is the intent for this project that this Subcontractor performs all work scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, operators, hauling, rigging, temp. shoring, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.

2. Utility Locating - This subcontractor shall be responsible for utility locating by using both 811 and private utility locator. Coordinate with UK for locating campus utilities.
   This subcontractor must adhere to WTs utility avoidance policy and must pothole when locating or excavating around existing utilities.

3. Erosion Control – Perimeter erosions controls installed by others. This subcontractor shall provide any additional erosion control measures if the perimeter controls are not adequate to contain erosion caused by this scope of work. This shall include sediment traps and/or other protection means. (C-102 - Soil Erosion Control Note 4)
   This subcontractor shall provide inlet protection at newly installed storm structures immediately after construction. (C-102 - Soil Erosion Control Note 8)
   This subcontractor shall provide a $5,000 allowance for additional erosion control to be installed at the direction of the construction manager. This is above and beyond the perimeter erosion control and supplemental controls provided by this subcontractor. At any time during the course of the project Whiting-Turner may elect to use any unspent portion of this allowance for other added items within this Scope of Work. Also, any unspent portion of this allowance may be returned to Whiting-Turner at any time during the project. This allowance does not alleviate this Subcontractor from any of their contractual requirements spelled out in the Contract Documents or their contractual requirements spelled out in this Subcontract. This allowance cannot be spent without written authorization from Whiting-Turner. Any unspent portion of this allowance will be returned to UK at the end of the project via a subcontract change order to this Subcontractor.

4. Clearing & Grubbing – This subcontractor shall be responsible for clearing and grubbing site and be responsible for all temporary seeding or other temporary means of ground cover. (C-102 - Soil Erosion Control Note 3; C-

103 - Note 4) The Subcontractor shall strip vegetation, topsoil, roots and other unsuitable material to a depth determined by the Structural testing/Inspection Agency.

5. Shoring – This subcontractor shall provide all shoring for excavations for this project. This subcontractor shall provide a shoring plan for approval by the construction manager. Due to the small site footprint, a limited amount of sloping and benching can be accommodated so this subcontractor should assume using engineered shoring for most trenching and excavations. At the manholes and elevator pit this subcontractor must provide appropriate shoring to allow other trades to perform their work. This subcontractor should consider and provide as necessary: shotcrete, soil nailings or lagging walls in these areas.

6. Selective Site Demolition – This subcontractor shall be responsible for the following site demolition:
   - Sawcutting and removal of existing concrete sidewalks, walkways, pathways, etc. per the contract documents and logistics plan. (C-103 - Note 2)
   - Sawcutting and removal of asphalt in Administration drive as required for utilities install. (Limits not shown)
   - Demolition of existing storm inlets, trench drains and piping per the contract documents (C-103 - Note 3)
   - Demolition of site stairs, landings, walls and railings per the contract documents (C-103 - Note 9)
   - Demolition of site retaining walls (C-103 - Note 11)
   - Demolition of wall to support construction efforts. (C-103 - Note 12)
   - Remove river rock landscaping (C-103 - Note 13)
   - Demolition of existing sanitary structure and associated piping. (C-103 - Note 14; U100 - Note 7 & 8)
   - Demolition of existing steam piping from vault to building. (U100 - Note 3)
   - Demolition of existing domestic water service to building (U100 - Note 28)

7. Ductbank Demo - This subcontractor shall coordinate with electrical subcontractor and excavate the existing electrical and telecommunications ductbanks. The electrical subcontractor will determine the extents of demo of the existing ductbank and this subcontractor shall be responsible for said demo.

8. Excavation – This Subcontractor shall perform excavation to the depths and limits on the drawings and as specified herein, including all necessary rock removal, in accordance with the Contract Documents. Do not excavate to full depth when there is a probability of rain, frost forming or ground freezing in excavation before concrete is placed. The Subcontractor is responsible for covering the fill dirt with plastic, erosion control (including maintenance), and cleanliness of this site. Within the building footprint the building pad shall be excavated to subgrade +1' shown in the Contract Documents. Final subgrade excavation within the building footprint will be by others. This subcontractor shall be responsible for excavation for all utilities and utility vault to include but not be limited to: Chilled Water, Steam, Fire Suppression, Storm, Water, Telecom, Electrical

9. This subcontractor shall excavate for electrician to install new electrical and telecommunications ductbanks. Coordinate with electrician for amount of excavation and provide input of grades and coordination with other utilities. (C-106 - Note 6 & 13) This subcontractor shall be responsible for backfilling of new ductbanks once the electrician has completed the work.

10. Survey – Prior to construction, the Subcontractor will have the project site staked and certified by a surveyor who is licensed in the state of Kentucky. If discrepancies between actual lines and elevations exist, notify Construction Manager before proceeding with drilling activities. This Subcontractor shall be responsible for all surveying of the site so that this scope of work may be completed. This may require multiple surveys.

11. Finished Grades – The Subcontractor is responsible for the importing/exporting of material to achieve the appropriate finish grades. This Subcontractor is also responsible for all slope protection required as per the OSHA Safety requirements.

12. Encountering Groundwater – This Subcontractor shall provide dewatering of any groundwater if encountered during excavation and fill operations. The Subcontractor shall also be responsible for all temporary and permanent dewatering needed for construction.

13. Protection – The Subcontractor shall coordinate and do his grading work in a way that protects existing grades, subgrades, and fills from surface water. All demucking and pumping of surface water from excavations, if necessary, is part of this work.
    Any site walls to remain should be protected by this Subcontractor. Document condition prior to protection being installed. (C-103 - Note 9)
    This subcontractor shall protect existing steam vents through durations of project as directed by mechanical engineer. (C-102 - Note 6)

14. Proof rolling – After stripping or excavation, and before any fill placement, the Subcontractor shall proof roll areas with a minimum of two coverages of a loaded dump truck or scraper in each of two perpendicular directions. Areas found to be soft or pumping shall have the soft soil removed and replaced with structural fill and compacted as outlined by the Contract Documents.

15. Stockpile – This Subcontractor will be responsible for all hauling off and hauling in materials needed to complete the necessary scope of work. Due to the limited size of the site, stockpiles shall not be allowed unless an individual exception is made at the sole discretion of the WT Superintendent. This Subcontractor understands that as there is little to no staging area, the vast majority or all of the spoils will need to be removed from the project sight and has accounted for such.

16. Construction Entrances – This subcontractor shall install new construction entrances per the logistics plan. (C-102 - Soil Erosion Control Note 1) This subcontractor shall be responsible for the modification and repair of existing site entrance and mudmat as necessary to complete this scope of work. (Reference logistics plan for existing mudmat and entrance location.) This Subcontractor is to maintain control measures by mucking out and disposing of sediment as needed at said entrances. Removal and disposal of construction entrances at prior to backfilling and landscaping will be the responsibility of this subcontractor.

17. Site Utilities - This subcontractor shall be responsible for the installation of all site utilities (excluding electrical and telecom) to include but not be limited to the following:
    a) Storm Sewer (C-106 - Note 1, 2, 3, 4, 7, 8, 12, 15 & 17)
        i) Including but not limited to: manholes, manhole frames, manhole covers, manhole steps, piping, foundation/french drains, trench drains, inspections, testing, etc.
    b) Sanitary Sewer (C-106 - Note 5)
        i) Including but not limited to: manholes, manhole frames, manhole covers, manhole steps, piping, fittings, gaskets, waterstop, clean-outs, testing, inspections, etc. (U100 - Note 6)
    c) Chilled Water (C-106 - Note 9)
        i) Including but not limited to: piping, insulation, fittings, valves, drains, temperature gauges, pressure gauges, anchors, startup testing, survey, as-builts, etc. (U101 - Note 12, 14, 15)
        ii) Items for chilled water manholes to include: vault lid access doors, vault ladders, sump pumps and associated piping, vent discharge lines, exhaust fans, vent plenums, vent plenum drain lines, vent intakes and exhaust frames and covers, concrete collars, etc. (U101 - Note 10, 13)
    d) Steam (C-106 - Note 10)
        i) Including but not limited to: piping, insulation, valves, testing, startup, wall anchors, linkseal, core drilling, etc. (U100 - Note 2)
    e) Fire Protection (C-106 - Note 11)
        i) Including but not limited to: fire protection vault, piping, shutoff valves, check valves, valve boxes, meters, fire hydrant, thrust blocks, post indicator valves, fire department connection, miscellaneous concrete pads, testing, inspections, final tie-in, startup, etc. (U100 - Note 5; U101 - Notes 3 - 6; U103 - Notes 2 & 3)
    f) Domestic Water Service (C-106 - Note 14; U100 - Notes 9, 27, 28)
        i) This subcontractor to coordinate with KAWC for installation of new domestic water meter and water service to building.

This Subcontractor is responsible for terminating each utility scoped herein within 5' of each building line. If these systems are in place inside 5' of the building line at the time of installation, then this contractor will be responsible for final connections.

18. This subcontractor shall be responsible for backfilling utilities with lean concrete where utilities pass below a footing and will be in the influence zone or where they are installed below an existing footing.

19. Temporary Collection of Existing or Disturbed Storm Systems - This Subcontractor shall be responsible for all temporary diversion of storm water from all the existing and/or disturbed storm systems. (C-103 - Note 3) This subcontractor shall plug or demo storm drain as noted on the drawings. (C-103 - Note 10)

20. Spoils – This Subcontractor shall be responsible for removing all spoils including but not limited to: from deep foundations, footings, site utilities, and other excavation required by the concrete, and MEP scope of work. The concrete Subcontractor will be responsible to stockpile all spoils for removal/reuse and this Subcontractor is responsible for removing stockpiled spoils from the site or reusing them on-site.

21. Backfill Walls – This Subcontractor shall be responsible for backfilling all footings, building foundation walls, site retaining walls and manholes. This shall be done in lifts, in coordination with the Waterproofing Subcontractor.

22. Site Conditions – All other existing site conditions are to be verified prior to start of construction. Any variances in conditions must be documented prior to construction. If Whiting-Turner is not notified in writing, it shall be the responsibility of this Subcontractor to make any corrections or remediation necessary at no additional cost. In addition, this Subcontractor shall protect all existing conditions and surroundings as so not to damage during construction. This includes any damage that could result from surface water. If any existing items, which are to be left undisturbed, are damaged by this Subcontractor it shall be its responsibility to repair.

23. Subsurface Conditions – A copy of a Geotechnical Exploration of the site is included in the Project Manual. The data is not intended as a representation or warranty of the continuity of such conditions. Owner will not be responsible for interpretation or conclusions drawn there from by the Trade Contractor. The Subcontractor may examine the site and make his own subsurface explorations at no additional cost to the Construction Manager or Owner. Notify the Construction Manager prior to making any subsurface explorations.

24. Street Cleaning – The Subcontractor shall maintain a safe and clean environment of all streets and sidewalks as a result of this scope of work. This Subcontractor shall ensure that vehicles and/or equipment do not track mud, dirt or dust onto adjacent streets or sidewalks. Any mud, dirt, or dust tracked onto adjacent streets and sidewalks shall be cleaned up immediately.

25. This subcontractor shall be responsible for providing the vault lid access doors for the cast-in-place utility vaults to be installed by the 03A sub. This sub shall verify accuracy and quality of install prior to the lid being cast in place.

26. This subcontractor shall supply and install the ladders in the cast-in-place utility vaults. These should be prefab ladders and installed after concrete has cured.

27. This subcontractor must clean the permanent storm structures of any sediment at the conclusion of the project. (C-102 - Soil Erosion Control Note 7)

28. This subcontractor shall provide and install magnetic marker tape for sanitary sewer lines if piping is non-metallic.

29. Any existing utility that is exposed during excavation but is intended to remain should be supported for the duration of excavation.

30. This subcontractor shall provide all utility service markers per the contract documents. This shall include electrical and telecommunication ductbank markers. Coordinate with 26A for locations and elevations.

31. This subcontractor shall remove existing condensate pump in steam vault and connect inlet and outlet piping for pumped discharge together.

32. This subcontractor to carry an allowance for $30,000 to KAWC to tap main in S. Limestone and provide 8" water service to fire protection vault. (U103 - Note 1)
33. Stone – This Subcontractor shall include all woven geofabric and 8” of stone at job site equipment and pedestrian pathways. (Reference logistics plan for site roads and pathways.) This subcontractor shall freshen up pathways with new stone as necessary, at a minimum of three times at the discretion of the construction manager.

34. Crane Staging – This subcontractor shall provide additional grading and stone as required to give access to a crane for the structural steel erection. Coordinate with 05A Subcontractor for exact location and requirements. Removal of site pathway and crane staging area will be the responsibility of this subcontractor prior to backfill and landscaping.

35. Temporary Water Connection – This subcontractor shall provide and install a temporary metered water connection for used during construction activities. This will be needed specifically by the deep foundations and concrete trades so pipe sizing and volume requirements should be coordinated with said trades. All cost of temporary water usage shall be included by this subcontractor and paid either to UK or the utility company.

36. Emergency Exit Stair Tower – For the duration of the Administration Drive shutdown this subcontractor shall provide, install and maintain a temporary stair scaffold coming out of the student center stairwell for emergency exiting of pedestrians from the Student Center ballrooms. This is shown on page 3 of the site logistics plan.

37. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0. Items listed below shall part of this subcontractor’s scope for the add alternates. This list is NOT a comprehensive list and is only intended as additional clarification.
    a) Add Alternate No. 2 - Provide add alternate for storm structure and piping associated to Line C

38. Traffic Control – This Subcontractor will provide a flagmen with stop signs and appropriate training to assist and manage traffic flow, for haul trucks to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

39. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail. **All activities related to the shutdown of Administration drive are critical and dates and durations are not flexible. This subcontractor shall bid these specific activities as 50-hour work weeks (at a minimum) in order to expedite and keep these activities on track.**

40. Appropriate Common Requirements:

a) Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
b) Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
c) O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
d) Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
e) Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.

END OF SPECIFIC SCOPE

UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION PROCUREMENT SECTION
FORM OF PROPOSAL
RENEW/MODERNIZE FRAZEE HALL

Subcontract 32A – Landscape & Irrigation

Project No. 2511.8 Project Title: RENEW/MODERNIZE FRAZEE HALL
Purchasing Officer: Matt Spalding

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: _____
(NAME AND ADDRESS OF BIDDER)

Date: _____ _____

Telephone: _____ _____

TO: BID CLERK
UNIVERSITY OF KENTUCKY
CAPITAL CONSTRUCTION
PROCUREMENT
RM. 322 SERVICE BUILDING

411 SOUTH LIMESTONE
LEXINGTON, KY 40506-0005

INVITATION TO BID: CCK-2561-22

BID OPENING DATES: August 17, 2021
TRADE CONTRACT DESCRIPTION: _____
Landscape & Irrigation

TRADE CONTRACT NO.: 32A
TIME: 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____
ADDENDUM NO. _____ DATED _____
ADDENDUM NO. _____ DATED _____
ADDENDUM NO. _____ DATED _____

(Insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);

2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2561-22 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;

3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;

4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;

5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;

6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.

7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.

8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.

9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW – FAILURE TO SIGN INVALIDATES BID

SIGNED BY_____ TITLE_____

PRINT NAME_____ FIRM_____

ADDRESS_____ PHONE (___) _____

_____ FAX (___) _____

CITY STATE ZIP CODE

EMAIL_____ DATE_____

Contractor Report of Prior Violations of Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder, in compliance with the Invitation to Bid CCK-2561-22 having examined the drawings, specifications, related documents and having visited the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby submits the following bid to furnish all labor, materials, and supplies and to construct the project in accordance with the Bid Documents within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid is a part.

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

Bidder hereby agrees that all escalation cost associated with materials and/or labor have been included in the stated unit cost, through the projected duration dates as stated in the preliminary project construction schedule.

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BID ALTERNATES

Add Alternate No. 1: Card Readers

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 2: Terraced Seat Wall

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 3: Wood Flooring

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

Add Alternate No. 4: Pedestrian Walkway and Gatton Student Center

FOR THE LUMP SUM OF _____
(USE WORDS)

_____ DOLLARS AND _____CENTS.
(USE WORDS) (USE WORDS)

($_____)
(USE FIGURES)

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

(01)___Small Business

(02)___Large Business

(03)___Disadvantaged Small Business

(04)___Disadvantaged Large Business

(05)___Woman-Owned Small Business

(06)___Woman-Owned Large Business

(07)___Disadvantaged Woman-Owned Small Business

(08)___Disadvantaged Woman-Owned Large Business

(09)___Other

DEFINITIONS

(01) SMALL BUSINESS: A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.

(02) LARGE BUSINESS: A business concern that exceeds the small business size code standards established by SBA.

(03) DISADVANTAGED SMALL BUSINESS: A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans and other minorities or individuals found to be disadvantaged by the SBA.

(04) DISADVANTAGED LARGE BUSINESS: A concern that meets the definition of socially and economically disadvantaged individuals, but which is not a small business by the SBA's size standards.

(05) WOMAN-OWNED SMALL BUSINESS: A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.

(06) WOMAN-OWNED LARGE BUSINESS: A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.

(07) DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS: A concern that meets the definition of both (03) and (05) above.

(08) DISADVANTAGED, WOMAN OWNED LARGE BUSINESS: A concern that meets the definition of both (04) and (06) above.

(09) OTHER: A concern that does not meet any of the above definitions.

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.

2. List of Proposed Subcontractors and Unit Prices. (if required)

3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.

4. List of Materials and Equipment.

5. VENDOR NUMBER: It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

_____

(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, “to the responsive and responsible bidder whose bid offers the best value” to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

All Bidders are required to complete and submit the following information with their bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM	UNIT	COST PER UNIT
Sod (laid and watered)	SF	
Trees (planted & staked)	EA	
Shrubs (planted)	EA	
Plantings (planted)	EA	
Mulch (placed)	CY	
Topsoil (placed)	CY	
Laborer	HR	
Foreman	HR	

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

Provide the address, phone number and contact information for the following subcontractor/suppliers:

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

The apparent low bidder will be required to complete and submit to the University the following information by twelve (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.

The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.

ITEM DESCRIPTION	MANUFACTURER/SUPPLIER

IDENTIFICATION OF MINORITY SUBCONTRACTORS AND MATERIAL SUPPLIERS

Participation of Minority and Women owned Contractors and businesses.

The University of Kentucky encourages and supports the participation of minority and women owned businesses.

1. Minority and Women Subcontractors

_____

_____

_____

_____

_____

_____

2. Minority and Women Material Suppliers

_____

_____

_____

_____

_____

_____

_____

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendents' qualifications and or past projects.

_____
List the Superintendent's Name

Revised 3/22/06

TRADE CONTRACT – 32A – LANDSCAPE & IRRIGATION

This section defines in summary, without limitations by the descriptions, significant items of the scope of work to be performed by the Subcontractor and any special provision related to the Subcontractor's execution of the Work and the Project. The details of the scope of work are further defined in Drawings, Specifications, and other provisions contained in the Project Documents.

Unit 32A – Landscape & Irrigation

This work shall include all items indicated in **Section A: General Scope of Work**, as such items apply to this work unless specifically noted otherwise herein.

This work primarily includes, but is not limited to the following specification sections as well as related work specified or shown elsewhere in the Contract Documents:

All Specification Sections as they relate to the Landscape & Irrigation scope of work.

*****Note: This Subcontractor is responsible for the requirements of the complete Contract Documents as they pertain to this Unit of Work.**

1. Scope of Work - It is the intent for this project is that this Subcontractor performs all works scoped herein and as specified in the Project Manual and Contract Drawings. This Subcontractor shall furnish 100% of the labor, supervision, materials, tools, equipment, shop drawings, submittals, layout, unloading, scaffolding, ladders, hoisting, transportation, taxes, permits, engineering, support functions, insurance, bonds, warranties, guarantees, and any other items or services necessary for and reasonably incidental to safely execute and complete the work scoped herein, whether temporary or permanent, in full compliance with all drawings, specifications, addenda, general conditions, requirements, and other related documents as indicated herein.

2. PlanGrid License – This Subcontractor has included the necessary license(s) to PlanGrid for their office and field staff for field reference and notifications. Please note that drawings posted on PlanGrid do not supersede the Contract Documents and should only be used for reference and notifications. All submittals, RFIs, and installation work should conform to the Contract Documents.

3. Landscape - This Subcontractor shall furnish and install ALL landscape materials and components shown or called out for in the Construction Documents including, but not limited to, filling materials, irrigation systems, drainage board, soil testing, plant selections, felt fabric, planting or top soil, bedding, plantings, mulches, composts, light weight planting medium, gravel or decorative rock, turf, sod, shrubs, trees, soil amendments, existing lawn re-conditioning, sub drainage, maintenance period, and all necessary materials for a comprehensive installation in strict compliance with the Contract Documents.

4. This subcontractor shall replace all sod, mulch and landscaping that has been disturbed at the location of the temporary walkway that is installed adjacent to Administration Drive. Extents of the walkway is shown on page 1 of the site logistics plan.

5. Steel Edging – This Subcontractor will furnish and install steeling edging around all planting beds and as shown in the contract documents.

6. Layout –This Subcontractor shall provide all additional surveying, engineering, field dimensions, and layout as necessary to complete his work. The layout of this work shall be coordinated with the work of other trades. All work shall be laid out far enough in advance that any discrepancies or conflicts can be resolved without

delaying the overall work. Any such discrepancies shall be reported to the Construction Manager in writing (requesting written clarification) prior to proceeding.

7. Irrigation – This subcontractor shall be responsible for all irrigation as required by the contract documents. Sleeves below hardscapes will be installed by others. This shall include all piping, fittings, wiring, valves, decoders, valve boxes, spray heads, rotors, drip lines and other accessories required for a complete irrigation scope of work. Irrigation devices must be RainBird to match existing student center system. This subcontract shall provide all rerouting and tie-in to existing system as required to provide a fully functioning system. This subcontractor shall flush all lines prior to installing nozzles.

8. Coordination & Sequencing – At the beginning of this project, this subcontractor shall be responsible for isolating the zones with-in the construction limits. This will require the subcontractor to cut and cap the existing PVC line and associated controls conduit/wiring. The existing pipe/conduit shall be protected with a weatherproof box and the wires must be protected with an approved waterproof splice kit. This shall be done at two locations, at the "plan west" of the site on IR101 and at the student center on the "plan east" of IR101. A metallic junction box can be used inside the student center for protecting wiring where they are cut and capped. Once the piping is capped inside the student center, this subcontractor shall grout and seal existing penetrations through the student center wall. At the point of connection inside the student center building, this subcontractor shall be responsible for running piping and controls conduit and wiring inside the building and coring the existing retaining wall to new stub-out location. This subcontractor shall properly seal penetrations to be weathertight.

9. Training – This subcontractor shall provide re-training to the owner/operator on the new irrigation system.

10. Existing Soil Condition – It is the responsibility of this Subcontractor to examine, test, and investigate the existing soil conditions to identify his materials source compliance.

11. Necessary Items for Completion – The Subcontractor will provide all items necessary for a complete and total turnkey landscaping package, including compliance with requirements of the Contract Documents, applicable codes, and governing authorities.

12. Weather – Subcontractor shall proceed with his work only when weather conditions will permit the materials to be installed in accordance with those recommendations.

13. Quality Control/ Quality Assurance– Demonstrate the required qualifications, license, tests, and certifications for manufacturer and suppliers as stipulated – indicated in project specifications. Subcontractor is to conduct the required tests by hiring a third party approved testing agency (as required) for material and installation tests per the contract documents.

14. Surface Protection - Subcontractor is to provide the proper protection for the landscape varies layers including, filling materials, topsoil, planting medium, roots of trees, etc. It is the responsibility of this subcontractor to protect each of landscape layers from weather conditions, erosion, traffic abuse, etc.

15. Maintenance – This Subcontractor will provide maintenance services for all landscaping work included in this scope of work as well as for the new zones of the irrigation system. This will include winterizing the system during the first year. This maintenance period shall begin upon the date of substantial completion.

16. Mobilizations – This Subcontractor has included multiple mobilizations to complete this work.

17. Trees – This Subcontractor shall provide and install all tree staking and gator bags as required by the contract

documents.

18. Fertilizer – This Subcontractor shall provide and install fertilizer and fertilizer tablets as required by the contract documents

19. Grading – This subcontractor shall be responsible for fine grading and final grading for all landscaping areas.

20. Alternates – This subcontractor shall review all four alternates as listed in specification section 012300 and as shown in the contract documents. This subcontractor shall provide alternate pricing for each alternate as applicable for this scope of work. If no applicable work exists, then alternate pricing shall be $0.

21. Traffic Control – This Subcontractor will provide a flagman with stop signs and appropriate training to assist and manage traffic flow, for deliveries to make a safe and secure exit out of the Construction site. This Subcontractor is fully aware that the construction site is within a high traffic campus corridor with continuing operations throughout the construction process. To that end, this Subcontractor will work hand in hand with the Construction Manager to ensure deliveries, manpower, and general construction traffic are conducted in such a manner as to provide a safe and undisturbed environment for the pedestrian and vehicular traffic, which includes but is not limited to: cleanup of all vehicle debris, mud, materials, adjusting haul routes and hours, adjusting exit routes, parking in designated areas, deferring to campus traffic, posting flagmen, etc.

22. Overtime Work – This Subcontractor shall perform all work within the time frames established in the Construction Schedule. This Subcontractor shall submit a plan to the Construction Manager before beginning work outlining his means and methods for completing work within the time frames established. The plan shall show required daily production rates, methods for monitoring actual daily production and a detailed contingency plan outlining how lost time will be made up (including time lost due to normal seasonal weather). This plan will show durations to meet or beat schedule that included crew size, number of crews, number of days and hours per week with detail.

23. Appropriate Common Requirements:
    a. Submittals - Subcontractor will in a timely and expedient manner provide submittals, drawings, etc. as required by contract specifications and Whiting-Turner Project Manager
    b. Warranties – Subcontractor will provide all required warranties as called out in contract documents and specifications.
    c. O&M documentation – Subcontractor will provide all required Operation & Maintenance as called out in contract documents and specifications.
    d. Permits and inspections – this Subcontractor will provide for all permits and inspections as required to complete this scope of work. Additionally, Subcontractor will endeavor to inform Whiting-Turner of any permit requirements that may be beyond this Subcontractor's ability to acquire.
    e. Safety – Subcontractor will adhere to all Federal, State, Local, University, and Whiting-Turner Safety requirements as set forth in all applicable law and project documents. Additionally, Subcontractor will adhere to all safety directives and practices as may be issued from time to time by Whiting-Turner personnel.

END OF SPECIFIC SCOPE

LORD AECK SARGENT

ADDENDUM

PROJECT NAME

University of Kentucky

2511.8 Renew/Modernize Facilities

(Frazee Hall)

PROJECT NO.

11396-00

CONTRACTOR

Whiting-Turner

DATE OF INSTRUCTION

July 30, 2021

OWNER

University of Kentucky

DOCUMENT NUMBER

Addendum #1

GENERAL DESCRIPTION AND REMARKS

This addendum forms a part of the Contract Documents and modifies the original Construction Documents previously issued as noted below.

This addendum consists of ____ pages, and the attachments listed below, all with a revision date of 7/30/21, unless otherwise noted. Drawings listed herewith and attached indicate revisions with clouds. Modifications to documents included in this addendum are primarily related to the following:

1. Specification sections added.
2. Coordination items between disciplines.
3. Clarification items.

The documents stated herein revise or modify the reference specification or drawing noted.

MODIFICATIONS TO THE SPECIFICATIONS (In modified specifications, new text is indicated by highlighting and deleted text is stricken through.)

Section #:	Title	Date
00 01 10	TABLE OF CONTENTS	July 30, 2021
01 91 13	COMMISSIONING HVAC, HVAC CONTROLS, DOMESTIC HOT WATER, LIGHTING CONTROLS, AND SECURITY SYSTEMS	July 30, 2021
07 61 00	SHEET METAL ROOFING	July 30, 2021
07 71 23	GUTTERS AND DOWNSPOUTS	July 30, 2021
08 51 13	ALUMINUM WINDOWS	July 30, 2021
10 14 00	SIGNAGE	July 30, 2021
23 08 00	COMMISSIONING OF DOMESTIC HOT WATER	July 30, 2021
23 08 00	COMMISSIONING OF HVAC AND HVAC CONTROLS	July 30, 2021
26 08 00	COMMISSIONING OF LIGHTING CONTROLS	July 30, 2021
28 08 00	COMMISSIONING OF SECURITY SYSTEM	July 30, 2021
32 92 00	STAGING, HANDLING, AND INSTALLATION OF NEW TREES	July 30, 2021

269 West Main Street, Suite 500
Lexington, KY 40507
877-929-1400
lordaecksargent.com

MODIFICATIONS TO THE DRAWINGS

Sheet#:	Title	Date
CIVIL		
C-103	SITE DEMOLITION	7/30/21
	• Notes 4 and 5 were modified to reflect elements already removed under a previous contract.	
C-105	SITE GRADING PLAN	7/30/21
	• Spot elevation clarification at the top of the east side stair connection to the student center patio.	
LANDSCAPE		7/30/21
LH100	OVERALL SITE IMPROVEMENT/LIMITS OF DISTURBANCE PLAN	
	• Note change to reference asphalt paving specification • Northernmost ramp concrete hatch added to reflect replacement • Concrete Paving quantity updated to reflect concrete ramp.	
LH101	SITE PLAN	7/30/21
	• Note change to reference asphalt paving specification • Northernmost ramp concrete hatch added to reflect replacement • Concrete Paving quantity updated to reflect concrete ramp.	
LH201	LAYOUT PLAN	7/30/21
	• Northernmost ramp concrete hatch added to reflect replacement • Concrete Paving quantity updated to reflect concrete ramp.	
STRUCTURAL		
S101	GENERAL NOTES	7/30/21
	• Revised note 12 in General section	
S102	GENERAL NOTES	
	• Revised note 3 in Loose Lintel Schedule section	
S200	FOUNDATION PLAN	
	• Revised tag notes 3, 7, and 12 • Added tag notes 15 and 16 • Added plan note 10 • Revisions at Stair B • Revised extents and details of new slab on grade inside existing building	
S201	FIRST FLOOR FRAMING PLAN	
	• Revised tag note 15	
S202	SECOND FLOOR FRAMING PLAN	
	• Revised tag note 15	

S203 THIRD FLOOR FRAMING PLAN

- Revised tag note 15

S204 ROOF FRAMING PLAN

- Revised tag notes 5, 6, 7, and 11
- Revised framing and notes on plan A/S204
- Revised partial plan detail B/S204

S303 TYPICAL FOUNDATION DETAILS

- Revised piers P1, P2, and P4 in detail E/S303

S402 TYPICAL FRAMING DETAILS

- Revised Type IV connection in detail D/S402

S408 FRAMING SECTIONS

- Revised roof/parapet condition in section A/S408
- Revised brick support and edge angle size in section C/S408
- Revised angle note in section D/S408
- Revised hole note and edge angle size in section E/S408

S501 STEEL COLUMN SCHEDULE

- Revised base plate and anchor rod information for several columns in the column schedule

S602 PEDWAY TRUSS DETAILS

- Added guardrail to section E/S602

S702 WEST VAULT PLANS AND SECTIONS

- Moved sump location and added slab bars in plan A/S702
- Added waterstops to section C/S702

S703 EAST VAULT PLANS AND SECTIONS

- Moved sump location and added slab bars in plan A/S703
- Added waterstops to section C/S703

ARCHITECTURAL

AD100 GROUND FLOOR DEMOLITION PLAN 7/30/21

- Demolition Legend updated.
- Utility tunnel extents shown.
- Additional floor slab removed.
- Dimension added for exterior wall removal.
- Extents of trim removal noted on plans.

AD101 FIRST FLOOR DEMOLITION PLAN 7/30/21

- Demolition Legend updated.
- Dimension added for exterior wall removal.
- Extents of trim removal noted on plans.

AD102 SECOND FLOOR DEMOLITION PLAN 7/30/21

- Demolition Legend updated.
- Dimension added for exterior wall removal.

- Extents of trim removal noted on plans.

AD103	THIRD FLOOR DEMOLITION PLAN	7/30/21

- Demolition Legend updated.
- Dimension added for exterior wall removal.
- Extents of trim removal noted on plans.

AD104	ATTIC FLOOR DEMOLITION PLAN	7/30/21

- Demolition Legend updated.
- Note 6 added for removal of existing plaster and lathe ceiling.

AD204	NORTHEAST DEMOLITION ELEVATION	7/30/21

- Extent of cornice and mid-cornice removal updated.

A100	GROUND FLOOR – PLAN	7/30/21

- General Notes updated.
- Dimensions added.
- Wall types added.

A101	FIRST FLOOR – PLAN	7/30/21

- General Notes updated.
- Dimensions added.

A102	SECOND FLOOR – PLAN	7/30/21

- General Notes updated.
- Dimensions added.
- Wall types added.

A103	THIRD FLOOR – PLAN	7/30/21

- General Notes updated.
- Dimensions added.
- Wall types added.

A104	ATTIC FLOOR PLAN	7/30/21

- Note 3 updated.

A105	ROOF PLAN	7/30/21

- Note 3 updated.
- Safety rail keynote added at Addition Roof Hatch
- Cricket added at Frazee roof hatch.

A111	ENLARGED PLANS	7/30/21

- New Work Legend added.
- General Notes updated.
- Added wall for Card Reader installation outside Storage Room 020 on Ground Floor.
- Wall types added.

A112	STUDENT CENTER STORAGE ENLARGED PLAN – ALTERNATE 4	7/30/21

- New Work Legend added.
- General Notes updated.

	• Card Reader and Push buttons shown on plans.	
A201	NORTHWEST ELEVATION • Stone patch keynote added at retaining wall. • Located second below ground floor slab vent to be covered with metal cover.	7/30/21
A203	SOUTHEAST ELEVATION • Located below ground floor slab vent to be covered with metal cover.	7/30/21
A205	ADDITION ELEVATIONS • Note 1 added for base bid pricing at second floor of the curtain wall.	7/30/21
A206	ADDITION ELEVATIONS • Extents of brick reduced at top of elevator shaft near roof • Dimensions updated.	7/30/21
A208	PEDESTRIAN WALKWAY ELEVATIONS – ALTERNATE 4 • Align note added for pedestrian walkway elevation.	7/30/21
A301	VERTICAL CIRCULATION – STAIR A • Dimensions updated at stair risers.	7/30/21
A302	VERTICAL CIRCULATION – STAIR A • Material Keynote legend added.	7/30/21
A303	VERTICAL CIRCULATION – STAIR B • Dimensions updated at stair risers.	7/30/21
A304	VERTICAL CIRCULATION – STAIR DETAILS • Keynotes added. • Base of floor mounted post added.	7/30/21
A305	VERTICAL CIRCULATION – STAIR DETAILS • Keynote removed.	7/30/21
A306	VERTICAL CIRCULATION – PEDESTRIAN WALKWAY – ALTERNATE 4 • Reference details and sections added. • Dimensions added. • Keynotes added.	7/30/21
A307	VERTICAL CIRCULATION – ELEVATOR • Reference detail added.	7/30/21
A400	GROUND FLOOR REFLECTED CEILING PLAN • General Notes updated. • RCP Legend updated.	7/30/21
A401	FIRST FLOOR REFLECTED CEILING PLAN • General Notes updated.	7/30/21

- RCP Legend updated.
- Reference detail added.

A402	SECOND FLOOR REFLECTED CEILING PLAN	7/30/21

- General Notes updated.
- RCP Legend updated.

A403	THIRD FLOOR REFLECTED CEILING PLAN	7/30/21

- General Notes updated.
- RCP Legend updated.

A404	THIRD FLOOR REFLECTED CEILING PLAN	7/30/21

- General Notes updated.
- RCP Legend updated.
- Note 2 removed, along with 36x36 access hatch from ceiling plan.

A405	ENLARGED REFLECTED CEILING PLANS	7/30/21

- General Notes added.
- RCP Legend updated.
- Dimensions added to sprinklers.

A406	ENLARGED REFLECTED CEILING PLANS	7/30/21

- General Notes added.
- RCP Legend updated.

A407	ENLARGED REFLECTED CEILING PLANS	7/30/21

- General Notes added.
- RCP Legend updated.
- Dimensions updated.

A408	CEILING DETAILS	7/30/21

- Keynotes added.

A409	CEILING DETAILS	7/30/21

- Hat channel framing and keynote added at metal panel soffit detail.

A412	STUDENT CENTER LEVEL THREE REFLECTED CEILING PLAN	7/30/21

- Ceiling removal and replacement extents added per conduit install to Telecomm room

A502	PLAN DETAILS – ADDITION	7/30/21

- Keynotes added.

A506	PLAN DETAILS – PEDESTRIAN WALKWAY – ALTERNATE 4	7/30/21

- Weather barrier updated at detail A10

A512	SECTION DETAILS	7/30/21

- Note 4 updated.
- Foundation Drain note added to detail A4

A513	SECTION DETAILS	7/30/21

	• Dimensions added to beams at canopy of detail D1	
A514	SECTION DETAILS • Slope of roof at wing wall added at detail F1. • Weep note added at detail A5	7/30/21
A525	EXPANSION JOINTS – STAIR B • Note 11 changed to Note 10 at detail D5.	7/30/21
A527	EXPANSION JOINTS – PEDESTRIAN WALKWAY – ALTERNATE 4 • Keynote added at detail F10.	7/30/21
A604	WINDOW ELEVATIONS & SCHEDULE • Window Type P removed from schedule, these are for the louvers located on the Ground level. • Historic replicated lugs added to window elevations. • Exterior Finish notes updated for window colors to refer to window panning and frame as two different colors.	7/30/21
A605	WINDOW DETAILS • Joint sealant added at sill condition.	7/30/21
A606	WINDOW DETAILS • Joint sealant added at sill condition.	7/30/21
A607	WINDOW DETAILS • Joint sealant added at sill condition.	7/30/21
A621	ENLARGED CASEWORK PLANS & ELEVATIONS • Material keynote legend added.	7/30/21
A622	ENLARGED CASEWORK PLANS & ELEVATIONS • Filler panels included. • Elevation tag added.	7/30/21
A629	ENLARGED RESTROOM PLAN AND ELEVATIONS • General Notes updated.	7/30/21
A710	FINISH FLOOR PLAN – GROUND FLOOR • Storage room floors changed from LVT3 to GEF1	7/30/21
A800	FURNITURE PLAN – GROUND FLOOR (REFERENCE ONLY) • Note 1 added at trash/recycle container.	7/30/21
A801	FURNITURE PLAN – FIRST FLOOR (REFERENCE ONLY) • Note 1 added at trash/recycle containers. • Note 2 added at confidential fax cabinet.	7/30/21
A802	FURNITURE PLAN – SECOND FLOOR (REFERENCE ONLY) • Note 1 added at trash/recycle container.	7/30/21
A803	FURNITURE PLAN – THIRD FLOOR (REFERENCE ONLY) • Note 1 added at trash/recycle container.	7/30/21

- Note 2 added at confidential fax cabinet.

UTILITIES

U100 SITE UTILITIES PLAN - EAST

- Modify existing sanitary routing to be removed.
- Modify existing domestic water meter location and scope of work for domestic water.

U103 FIRE PROTECTION AND DOMESTIC WATER SITE UTILITIES PLAN

- Add domestic water scope of work for water meter and water line

MECHANICAL

Mechanical General

- The circle with a PC in it is a “photo sensor” symbol and should not have shown up on the mechanical drawings.

H102 SECOND FLOOR – HVAC PLAN

- Add thermostat to room 213 as shown.
- Add Alternate #4 area.

H103 THIRD FLOOR – HVAC PLAN

- Add note 4 to fan coil in Office 307 as shown.

H202 SECOND FLOOR – HYDRONIC PLAN

- Add Alternate #4 area.

H303 ENLARGED PLANS

- Modify steam piping to heat exchangers.

H400 HVAC FLOW DIAGRAM

- Modify steam piping to heat exchangers.

IC503 INSTRUMENTATION AND CONTROLS

- Modify the Controls Matrix

PLUMBING

P102 SECOND FLOOR – SANITARY WASTE & VENT PLAN

- Add Alternate #4 area.

P202 SECOND FLOOR – DOMESTIC WATER PLAN

- Add Alternate #4 area.

P400 PLUMBING ATTIC & ROOF PLAN, SCHEDULES AND DETAILS

- Modify sanitary vents to pass thru flat portion of roof.
- Modify Domestic Water Entrance Detail.

FIRE PROTECTION

FP102 SECOND FLOOR – FIRE PROTECTION PLAN

- Add Alternate #4 area.

ELECTRICAL

E00 ELECTRICAL LEGEND AND GENERAL NOTES

- Updated legend to include photo sensor symbol.

E200 GROUND FLOOR – POWER PLAN

- Exterior receptacle on elevator wall shall be at height that is accessible above planter.
- Conduit for Stairwell B receptacles shall follow route of fire protection lines through existing wall.

E201 FIRST FLOOR – POWER PLAN

- Updated circuiting for Stairwell B receptacles

E202 SECOND FLOOR – POWER PLAN

- Updated circuiting for Stairwell B receptacles

E203 THIRD FLOOR – POWER PLAN

- Updated circuiting for Stairwell B receptacles

Instructions by
Kelly Gawinek

FILE: **K:\PROJECTS\11396-00\BIDDING\Addenda\210730_BB-Addendum-1\Working\210730_2511.8_Frazee_ADD_01.docx** COPY: **Design and Construction Team**

SECTION 00 01 10 - TABLE OF CONTENTS

END OF SECTION

SECTION 01 91 13 - COMMISSIONING HVAC, HVAC CONTROLS, DOMESTIC HOT WATER, LIGHTING CONTROLS, AND SECURITY SYSTEMS

PART 1 – GENERAL

1.1 RELATED WORK

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division-1 Specification Sections, apply to work of this Section.
B. Division 22 – Plumbing
C. Division 23 – Heating Ventilating and Air Conditioning
D. Division 26 – Electrical
E. Division 28 – Electronic Safety and Security

1.2 SUMMARY

A. Section includes commissioning process requirements for the following systems:
   1. HVAC and HVAC Controls
   2. Domestic Hot Water
   3. Lighting Controls
   4. Security

B. Section Includes:
   1. General requirements for coordinating and scheduling commissioning.
   2. Commissioning meetings.
   3. Commissioning documentation and scheduling commissioning.
   4. Construction checklists, including, but not limited to, installation checks, startup, performance tests, and performance test demonstration.
   5. Commissioning tests and commissioning test demonstration.
   6. Adjusting, verifying, and documenting identified systems and assemblies.

1.3 REFERENCES

A. Drawings and general provisions of contract, including general and supplementary conditions, general mechanical provisions and Division-1 Specification sections, apply to work of this section.
B. AABC National Standards for Total System Balance – 2016
C. ASHRAE Standard 202 – 2018: Commissioning Process for Buildings and Systems
D. ASHRAE Guideline 0 – 2019: The Commissioning Process
E. ASHRAE Guideline 0.2 – 2015: Commissioning Process for Existing Buildings and Assemblies
F. ASHRAE Guideline 1.1 – 2007: HVAC&R Technical Requirements for the Commissioning Process
G. ASHRAE Guideline 1.2 – 2019: Technical Requirements for the Commissioning Process for Existing HVAC&R Systems and Assemblies
H. ASHRAE Guideline 1.3 – 2018: Building Operation and Maintenance Training for the HVAC&R Commissioning Process
I. ASHRAE Guideline 1.4 – 2014: Procedures for Preparing Facility Systems Manuals
J. ASHRAE 1.5 – 2017: The Commissioning Process for Smoke Control Systems
K. ASHRAE Commissioning Definitions and Terminology for the Building Industry: A Common Overview – 2018
L. ACG Commissioning Guideline – 2005
M. ANSI/ASHRAE/IES Standard 90.1 – 2016; Energy Standard for Buildings Except Low Rise Residential Buildings (SI Edition)
N. ANSI/ASHRAE/IES Standard 189.1 – 2014: Standard for the Design of High-Performance Green Buildings
O. BCA New Construction Building Commissioning Best Practices –2018
P. BICSI: Telecommunications Distribution Methods Manual, 14th Edition
Q. ICC G4 – 2018 Guideline for Commissioning
R. ICC International Energy Conservation Code (IeCC) – 2012; Section C408
S. NECA 90: Commissioning Building Electrical Systems – 2015

T. NETA-ATS: Standard for Acceptance Testing Specifications for Electrical Power Equipment and Systems – 2017
U. NFPA 70: National Electrical Code – 2017
V. NFPA 72: National Fire Alarm and Signaling Code – 2013
W. National Institute of Building Sciences (NIBS) Whole Building Design Guide
X. 2018 Kentucky Building Code
Y. NFPA 110: Standard for Emergency and Standby Power Systems – 2019

1.4 DESCRIPTION OF WORK

A. The purpose of the commissioning process is to provide the owner/operator of the facility with a high level of assurance that the commissioned systems have been installed in the prescribed manner, and operate within the performance guidelines set out in the Owner's Project Requirements (OPR). The Commissioning Authority (CxA) shall provide the owner with an unbiased, objective view of the system's installation, operation, and performance. This process is not intended to eliminate or reduce the responsibility of the design team or installing contractors to provide a finished product. Commissioning is intended to enhance the quality of system start-up and aid in the orderly transfer of systems for beneficial use by the owner. The CxA will be a member of the construction team, administrating and coordinating commissioning activities with the design team, construction manager, subcontractors, manufacturers and equipment suppliers.

B. The independent commissioning authority (CxA) is contracted directly with the owner for this project. This commissioning plan has been included for reference only to define contractors' responsibilities. Each contractor should review this procedure and include adequate time in their proposal.

1.5 INSTALLING CONTRACTORS CLOSE-OUT SUBMITTALS

A. Commissioning Report Supplemental Information:
   1. At Construction Phase Commissioning Completion, provide the following:
      a. Startup reports
      b. Approved test procedures
      c. Test data forms, completed and signed
      d. Controls point-to-point verification documentation
      e. Preliminary test and balance report(s)
      f. Progress reports
      g. Commissioning issues reports showing resolution of issues
      h. Correspondence or other documents related to resolution of issues
      i. Other reports required by commissioning authority

B. Provide Operation and Maintenance Data: For proprietary test equipment, instrumentation, and tools to include in operation and maintenance manuals.

PART 2 – PRODUCTS

2.1 Not used.

PART 3 – EXECUTION

3.1 ROLES OF THE COMMISSIONING AUTHORITY

A. The primary responsibility is to inform the owner, the construction manager and design team on the status, integration, and performance of commissioned systems within the facility.

B. The CxA shall function as a catalyst and initiator to disseminate information and assist the design and construction teams in implementing completion of the construction process. This shall include system verification, functional performance testing, and conformance with the intended design of each system. Services include documenting construction observations, verification and functional performance testing, and documenting proper distribution of performance and operating information to the owner's O&M staff.

C. The CxA shall observe and coordinate testing as required to assure system performance meets the Basis of Design and Owner's Project Requirements.

D. The CxA shall provide technical expertise to oversee and verify the correction of deficiencies found during the commissioning process.

E. The CxA is to remain an independent party with specific knowledge of commissioned systems on the project. The CxA shall investigate the scope and extent of the problem and facilitate communication to determine responsibilities by delineating specifications. The CxA shall monitor resolution for conformance with design intent and prevailing industry standards.

F. The CxA shall document the date of acceptance as determined by the construction manager, owner and design team.

3.2 SYSTEMS INCLUDED IN THE COMMISSIONING PROCESS

A. HVAC and HVAC Controls
B. Domestic Hot Water
C. Lighting Controls
D. Security Systems - (Security Management and Video Management Systems)

3.3 CONTRACTOR SCHEDULING

A. Commissioning Schedule: Integrate commissioning into Contractor's construction schedule.

1. Include detailed commissioning activities in monthly updated Contractor's construction schedule and short interval schedule submittals.
2. Schedule the start date and duration for the following commissioning activities:

a. Submittals.
b. Preliminary operation and maintenance manual submittals.
c. System verification checklists
d. Operation and Maintenance Manuals
e. Startup
f. Functional performance tests
g. Operation and Maintenance Training
h. As-Built/Existing Conditions Documents
i. Near End of Warranty Review

B. Two-Week Look-Ahead Commissioning Schedule:
1. Two weeks prior to the beginning of tests, submit a detailed two-week look-ahead schedule. Thereafter, submit updated two-week look-ahead schedules weekly for the duration of commissioning.

C. Owner's Witness Coordination:
1. Coordinate Owner's witness participation via Architect.
2. Notify Architect of commissioning schedule changes at least one week in advance for activities requiring the participation of Owner's witness.

3.4 COMMISSIONING PLAN

A. Commissioning Team

1. The Commissioning Team (CT) shall consist of key parties involved in design, construction and testing of this facility. It is necessary for each agency to appoint team members that will have long-term commitments to this project. One team member shall be provided by each of the parties listed below:

a. Owner Representative – University of Kentucky
b. Project Architect – Lord Aeck Sargent Architect
c. Design Engineer – Staggs & Fisher Engineers
d. Commissioning Authority (CxA)
e. General Contractor (GC)
f. Mechanical Contractor (MC)
g. Sheet Metal Contractor (SM)
h. Controls Installation Contractor (CIC)
i. Controls Supplier (CS)
j. Test and Balance Contractor (TABC)
k. Electrical Contractor (EC)
l. Lighting Controls Equipment Contractor (LCEC)
m. Security System Contractor (SSC)

B. Owner's Project Requirements and Basis of Design Documents

1. The Owner's Project Requirements (OPR) is a written document prepared by the owner and the design team that details the functional requirements of a project and the expectations of how it will be used and operated.
2. The Basis of Design (BOD) is a document prepared by the design team that records the concepts, calculations, decisions, and product selections used to meet the Owner's Project Requirements and to satisfy applicable regulatory requirements, standards, and guidelines. This instrument contains narrative descriptions and supporting documentation.

C. The CxA will review the OPR and BOD documents for commissioning provisions, functional performance, optimizing of performance, accessibility, TAB provisions, testing provisions and O&M considerations.

D. Commissioning Meetings

1. Commissioning meetings will be held in conjunction with progress meetings as necessary. The CxA will be on site for the Cx meetings. Commissioning meetings will be used to address any problems that alter the design intent or affect the commissioning process.

E. Resolution Tracking Forms (RTF)

1. The use of Resolution Tracking Forms is a method employed by the CxA to monitor and record problems, their causes, and solutions. The use of these lists promotes communication between the installing contractors, design team, commissioning agent, and owner, in order to expedite their resolution in a timely manner.
2. The CxA will regularly submit RTF's to the Commissioning Team in order to document and resolve deficiencies as quickly as possible. The frequency of RTF submission will be adjusted as project conditions dictate.

F. System Verification Checklists (SVC) / Manufacturers' Checklists

1. The CxA will write SVC's based on the contract documents. These tests will be created for systems and subsystems. See section 3.2 *SYSTEMS INCLUDED IN THE COMMISSIONING PROCESS* for list of systems to be commissioned. Draft copies will be submitted to the Commissioning Team for review and comment prior to placement on the job site. A master copy of the SVC's will be bound in a three-ring binder and placed on the job site for completion by the installing contractors. No system will be started until the appropriate SVC's have been completed.
2. The CxA will review the SVC for each piece of equipment prior to start-up.
3. The equipment manufacturers' checklists must also be reviewed by the CxA prior to start-up. These lists must be completed by the installing contractor, and reviewed by the CxA before start-up commences.

G. Start-Up

1. Start-up of major commissioned systems will be witnessed the CxA. The appropriate contractors and/or manufacturer's representative will be required on site to perform start-up. No system will be started until the appropriate SVC's have been completed.

H. Controls Monitoring

1. Close monitoring of the Control Supplier's (CS) progress will promote efficient coordination of the TAB work. The CS will be expected to submit point-to-point checklists verifying that his work has been completed and all systems are ready for TAB work and Functional Performance Testing.

I. TAB Monitoring

1. The preliminary TAB report set-up will be reviewed prior to HVAC equipment start-up, in order to assure that the final TAB report format and content are acceptable.
2. TAB work will be monitored so that any problems that prevent or hinder proper air and water balance can be addressed and corrected with minimal delays.
3. A pencil copy of the TAB report will be reviewed prior to submission of the final TAB report and before Functional Performance Tests can begin. A written CxA review will be submitted to the TAB contractor and to the Design Team for their comments. A TAB report approved by the DT will be required before Functional Performance Testing can be carried out. The CxA will visit the site during the TAB process in order to assist TABC and CC in the effective completion of their scope of work.

J. Functional Performance Tests (FPT)

1. The CxA will write FPT's based on the OPR. These tests will be created for systems and subsystems. See section 3.2 'SYSTEMS INCLUDED IN THE COMMISSIONING PROCESS' for list of systems to be commissioned above. Each major system will be tested. A random sample of each subsystem will be tested. This will be coordinated and witnessed by the CxA and the owner's maintenance staff. Witnessing the FPT's will serve as a compliment to the O&M Training. No FPT's will be performed until the system and related subsystems SVC's are completed by installing contractors, startup reports have been submitted, the TAB report has been submitted and reviewed, and the completion of the control system has been documented through point-to-point checklists and other documentation.
2. The Functional Performance Tests shall include HVAC, HVAC Controls, Domestic Hot Water, Lighting Controls and Security Systems equipment.
    a. Fan Coil Units will be tested at minimum and maximum airflow setpoints, and under automatic control. Intermediate settings will be tested as necessary.
    b. Hydronic Pumps will be tested for conformance to OPR and BOD.
    c. DDC control systems will be tested as necessary to achieve OPR conformance.
    d. HVAC systems will be tested to assure that the building as an integrated system operates properly.
    e. Domestic Hot Water systems will be tested in designed modes under relevant operating conditions for conformance to OPR and BOD.
    f. Lighting Controls will be tested to assure that the building as an integrated system operates properly.
    g. The security system contractor will demonstrate to the CxA design intent conformance of video management system (VMS) operation including cameras, camera network and recording. With the CxA present the security system contractor will verify proper operation of commissioned systems.
    h. The security system contractor will demonstrate to the CxA design intent conformance of Security Management System (SMS) operation including Access Control, Duress Buttons, Emergency Call Boxes, electrified door hardware interfaces to other systems and remote monitoring and control. With the CxA present, the security system contractor will verify proper operation of commissioned systems.
3. Off-season mode testing will be implemented as necessary to assure conformance with the OPR. Installing contractors will be expected to participate as required by the project specifications.

3.4 ROLES AND RESPONSIBILITES OF INSTALLING CONTRACTORS

A. Installing Contractor Roles

1. General Contractor (GC)
2. Mechanical Contractor (MC)
3. Sheet Metal Contractor (SMC)
4. Testing, Adjusting and Balance Contractor (TABC)
5. Temperature Controls Contractor (TCC)
6. Electrical Contractor (EC)
7. Lighting Controls Equipment Contractor (LCEC)
8. Plumbing Contractor (PC)
9. Security System Contractor (SSC)

B. General Contractor Responsibilities (GC)

1. Assure acceptable representation, with the means and authority to prepare and coordinate execution of the commissioning program as described in the contract documents.
2. Assure that the CxA shall receive a copy of all construction documents, addenda, change orders and appropriate approved submittals and shop drawings for review and use in development of the commissioning plan.
3. Coordinate inclusion of commissioning activities in the construction schedule.
4. Facilitate resolution of deficiencies identified by observation or performance testing.

C. Mechanical Contractor (MC) Responsibilities

1. Include requirements for submittal data (including partial load data), O&M data, and training in each purchase order or sub-contract.
2. Assure cooperation and participation of specialty sub-contractors such as sheet metal, piping, refrigeration, water treatment, temperature controls, and TAB in commissioning activities.
3. Assure participation of major equipment manufacturers in appropriate startup, training, and testing activities.
4. Attend commissioning meetings scheduled by the CxA.
5. Assist the CxA in system verification and performance testing.
6. Prepare preliminary schedule for commissioned system inspections, O&M manual submission, training sessions, pipe and duct system testing, flushing and cleaning, equipment start-up, system verification, performance testing, and system completion for use by the CxA. Update schedule as appropriate throughout the construction period.
7. Complete System Verification Checklists and manufacturer’s pre-start checklists prior to scheduling startup of commissioned equipment.
8. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
9. Notify the CxA a minimum of two weeks in advance of scheduled system start-up.
10. Update drawings to as-built condition and review with the CxA throughout the construction process.
11. Schedule vendor and subcontractor provided training sessions as required by project specifications.
12. Provide written notification that the following work has been completed in accordance with the project specifications, and that the equipment, systems and sub-systems are operating in accordance with design intent.
    a. HVAC equipment including fans, air handling units, dehumidification units, ductwork, dampers, terminal devices, etc.
    b. Fire detection and smoke detection devices furnished under other divisions as they affect the operation of the HVAC systems.
    c. That BAS is functioning in accordance with design intent.
13. Participate in the Functional Performance Tests as required to achieve design intent.
14. Participate in the off-season mode testing as required to achieve design intent.
15. Participate in O&M Training as required by project specifications.
16. Provide a complete set of as-built drawings and O&M manuals for review.

D. Sheet Metal Contractor Responsibilities (SMC)

1. Include requirements for submittal data (including partial load data), O&M data, and training in each purchase order or sub-contract.
2. Assure cooperation and participation of specialty sub-contractors such as piping, refrigeration, water treatment, temperature controls, and TAB in commissioning activities.
3. Assure participation of major equipment manufacturers in appropriate startup, training, and testing activities.
4. Attend commissioning meetings scheduled by the CxA.
5. Assist the CxA in system verification and performance testing.
6. Prepare preliminary schedule for commissioned system inspections, O&M manual submission, training sessions, pipe and duct system testing, flushing and cleaning, equipment start-up, system verification, performance testing, and system completion for use by the CxA. Update schedule as appropriate throughout the construction period.
7. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned equipment.
8. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
9. Notify the CxA a minimum of two weeks in advance of scheduled system start-up.
10. Update drawings to as-built condition and review with the CxA throughout the construction process.
11. Schedule vendor and subcontractor provided training sessions as required by project specifications.
12. Provide written notification that the following work has been completed in accordance with the project specifications, and that the equipment, systems and sub-systems are operating in accordance with design intent.
    a. HVAC equipment including fans, air handling units, dehumidification units, ductwork, dampers, terminal devices, etc.
    b. Fire detection and smoke detection devices furnished under other divisions as they affect the operation of the HVAC systems.
13. Participate in the Functional Performance Tests as required to achieve design intent.
14. Participate in the off-season mode testing as required to achieve design intent.
15. Participate in O&M Training as required by project specifications.
16. Provide a complete set of as-built drawings and O&M manuals for review.

E. Test and Balance Contractor Responsibilities (TABC)

1. Attend commissioning meetings scheduled by the CxA.
2. Submit the TAB procedures and preliminary TAB report to the CxA for review at least two weeks prior to beginning TAB work.
3. Notify the CxA a minimum of two weeks in advance of scheduled TAB work.
4. Provide partial, preliminary TAB Reports by phase, by building section, by system, or as required by the CxA.
5. Assist the CxA in system verification and performance testing.
6. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
7. Participate in verification of the TAB report, which will consist of repeating any selected measurement contained in the TAB report where required by the CxA for verification or diagnostic purposes.
8. Participate in the Functional Performance Tests as required to achieve design intent.
9. Provide sound and vibration measurements where required to assist in diagnosis of areas exhibiting unacceptable levels of noise or vibration.
10. Participate in the off-season mode testing as required to achieve design intent.
11. Participate in O&M Training as required by project specifications.

F. Temperature Control Contractor Responsibilities (TCC)

1. Review control sequence and component selection for conformance with design intent.
    a. Verify that specified safeties and interlocks have been selected.
    b. Verify proper selection of control valves and actuators based on design parameters.
    c. Verify proper selection of control dampers and actuators based on design parameters.

   d. Verify that sensor selection conforms to design intent.
2. Attend commissioning meetings scheduled by the CxA.
3. Provide the following submittals to the CxA:
   a. Hardware and software submittals.
   b. Control panel construction shop drawings.
   c. Narrative description of control sequences for each commissioned system and subsystem.
   d. Schematics showing all control points, sensor locations, point names, actuators, controllers and where necessary, points of access.
   e. A list of all control points, including analog inputs, analog outputs, digital inputs and digital outputs. Include the values of all parameters for each system point. Provide a separate list for each stand-alone control unit.
   f. A complete listing of all software routines employed in operating the control system. Also provide a program narrative that describes the logic flow of the software and the functions of each routine and sub-routine. The narrative should also explain individual math or logic operations that are not clear from reading the software listing.
   g. Hardware operation and maintenance manuals.
   h. Application software and project applications code manuals.
   i. Panel and equipment insert documents.
4. Verify that specified interfaces provided by others are compatible with BAS hardware and software.
5. Coordinate installation and programming of BAS with construction and commissioning schedules.
6. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned equipment.
7. Provide control system technician to assist during equipment startup.
8. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
9. Participate in the Functional Performance Tests as required by the project specifications.
10. Provide a control system technician to assist during verification and performance testing.
11. Provide system modifications to achieve system operation as defined by the design intent.
12. Provide support and coordination for TAB contractor. Provide all devices, such as portable operator terminals and all software for the TAB to use in completing TAB procedures.
13. Provide written notification that the TCC scope of work has been completed in accordance with the project specifications, and that the equipment, systems and sub-systems are operating in accordance with design intent, and that BAS is functioning in accordance with design intent.
14. Participate in the Functional Performance Tests as required to achieve design intent.
15. Participate in the off-season mode testing as required to achieve design intent.
16. Participate in O&M Training as required by project specifications. Include training on hardware operations and programming.

G. Electrical Contractor Responsibilities (EC, LCEC)

1. Review design for provision of power to the commissioned equipment.
   a. Verify proper hardware specifications exist for performance as defined by the OPR.
   b. Verify proper safeties and interlocks are included in the design of electrical connections for HVAC equipment.
2. Attend commissioning meetings scheduled by the CxA.
3. Verify proper installation and performance of all electrical services provided.
4. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned equipment.
5. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
6. Provide an electrical system technician to assist during verification and performance testing.
7. Participate in the Functional Performance Tests as required to achieve design intent.
8. Participate in the off-season mode testing as required to achieve design intent.
9. Participate in O&M Training as required by project specifications.
10. Provide a complete set of as-built drawings and O&M manuals for review.

H. Plumbing Contractor Responsibilities (PC)
1. Include cost for commissioning requirements in the contract price.
2. Review design for provision of power to equipment.
   a. Verify proper hardware specifications exist for performance as defined by the OPR.
   b. Verify proper safeties and interlocks are included in the design of electrical connections for plumbing equipment.
3. Attend commissioning meetings scheduled by the CxA.
4. Furnish instrumentation required for demonstration of Owner's Project Requirements compliance of installed systems equipment and assemblies for systems to be commissioned.
5. Verify proper installation and performance of all plumbing installation services provided.
6. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned plumbing equipment.
7. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
8. Provide a plumbing system technician to assist during verification and performance testing.
9. Participate in the Functional Performance Tests as required to achieve design intent.
10. Participate in the off-season mode testing as required to achieve design intent.
11. Participate in O&M Training as required by project specifications.

I. Security System Contractor Responsibilities (SSC)
1. Include cost for commissioning requirements in the contract price.
2. Review design for provision of power to equipment.
   a. Verify proper hardware specifications exist for performance as defined by the OPR.
   b. Verify proper safeties and interlocks are included in the design of electrical connections for plumbing equipment.
3. Attend commissioning meetings scheduled by the CxA.
4. Furnish instrumentation required for demonstration of Owner's Project Requirements compliance of installed systems equipment and assemblies for systems to be commissioned.
5. Verify proper installation and performance of all security installation services provided.
6. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned security equipment.
7. Coordinate with Owner's personnel (Security Personnel, IT) and their integrator(s) during the installation of the systems.
8. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.
9. Provide a security system technician to assist during verification and performance testing.
10. Participate in the Functional Performance Tests as required to achieve design intent.
11. Participate in O&M Training as required by project specifications.

J. Contractor Commissioning Compliance Issues (Applies to all Installing Contractors):

1. Test results that are not within the range of acceptable results are commissioning compliance issues.
2. Track and report commissioning compliance issues until resolution and retesting are successfully completed.
3. If a test demonstration fails, determine the cause of failure. Direct timely resolution of issue and then repeat the demonstration. If a test demonstration must be repeated due to failure caused by Contractor work or materials, reimburse Owner for billed costs for the participation in the repeated demonstration.
4. Test Results: If a test demonstration fails to meet the acceptance criteria, perform the following:
   a. Complete a commissioning compliance issue report form promptly on discovery of test results that do not comply with acceptance criteria.
   b. Submit commissioning compliance issue report form to the Commissioning Team.
   c. Determine the cause of the failure.
   d. Establish responsibility for corrective action if the failure is due to conditions found to be Contractor's responsibility.
5. Commissioning Compliance Issue Report: Provide a commissioning compliance issue report for each issue. Do not report multiple issues on the same commissioning compliance issue report.

a. Exception: If an entire class of devices is determined to exhibit the identical issue, they may be reported on a single commissioning compliance issue report. For example, if all return-air damper actuators that are specified to fail to the open position are found to fail to the closed position, they may be reported on a single commissioning issue report. If a single commissioning issue report is used for multiple commissioning compliance issues, each device shall be identified in the report, and the total number of devices at issue shall be identified.
b. Complete and submit the commissioning compliance issue report immediately when the condition is observed.
c. Record the commissioning compliance issue report number and describe the deficient condition on the data form.
d. Resolve commissioning compliance issues promptly and report resolutions to the Commissioning Team.

6. Diagnose and correct failed test demonstrations as follows:
   a. Perform diagnostic tests and activities required to determine the fundamental cause of issues observed.
   b. Record each step of the diagnostic procedure prior to performing the procedure. Update written procedure as changes become necessary.
   c. Record the results of each step of the diagnostic procedure.
   d. Record the conclusion of the diagnostic procedure on the fundamental cause of the issue.
   e. Determine and record corrective measures.
   f. Include diagnosis of fundamental cause of issues in commissioning compliance issue report.
7. Retest:
   a. Schedule and repeat the complete Functional Performance Test procedure for each test demonstration for which acceptable results are not achieved. Obtain signature of Owner’s witness on retest data forms. Repeat test demonstration until acceptable results are achieved. Except for issues that are determined to result from design errors or omissions, or other conditions beyond Contractor’s responsibility, compensate Owner for direct costs incurred as the result of repeated test demonstrations to achieve acceptable results.
8. Do not correct commissioning compliance issues during test demonstrations.
   a. Exceptions will be allowed if the cause of the issue is obvious and resolution can be completed in a mutually agreed upon brief timeframe by the Commissioning Team. If corrections are made under this exception, note the deficient conditions on the test data form and issue a commissioning compliance issue report.

END OF SECTION

SECTION 07 61 00 - SHEET METAL ROOFING

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Sheet metal roofing.
   2. Built-in gutter linings.
   3. Sheet metal flashing, trim, closures, covers, clips, etc., comprising a complete system.
   4. Downspouts.
   5. Fasteners and attachment devices.
   6. Underlayment.
   7. Joint sealants in contact with work of this Section.
   8. Coatings and slip sheets to isolate sheet metal from dissimilar materials.

1.02 REFERENCES

A. ASTM B32 - Standard Specification for Solder Metal; 2008 (Reapproved 2014).

B. ASTM B370 - Standard Specification for Copper Sheet and Strip for Building Construction; 2012 (Reapproved 2019).

C. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2017.

D. CDA A4050 - Copper in Architecture - Handbook; current edition.

E. SSPC-Paint 12 - Cold-Applied Asphalt Mastic (Extra Thick Film); 1982 (Ed. 2000).

1.03 SYSTEM DESCRIPTION

A. Sheet metal work includes gutters, gutter liners, downspouts, valleys, ridges, edge treatments, trim, flashings, counterflashings, and other sheet metal fabrications specified in this section, indicated on the Drawings, and as required by project conditions. Only the general arrangement and configuration of sheet metal work is indicated on the drawings.

B. The Contractor is responsible for preparing shop drawings illustrating details of seaming, joining, and fastening of sheet metal work in conformance with the Drawings and this Specification and to accommodate the project conditions on the site, and without change in Contract Time or Price.

C. Such details shall conform to the CDA A4050 recommendations for maximum life and reliability.

D. Such details shall provide:
   1. Weather-proof performance without relying on sealant.
   2. Expansion provisions for running work.
   3. Sheet metal roofing that is expected to be leak-free.
   4. Sheet metal roofing that can reasonably be expected to last in excess of 75 years without repairs other than required by storm damage.
   5. Exception: Where the use of joint sealant is required by the Contract Documents or is required by Project conditions and is approved in writing by the Architect.

E. Seams and Joints: Where specific types of seams and joints are not indicated in the Contract Documents, select seams and joints in the order that follows:
   1. Provide locked seam or joint where, due to slope and interlocking of seam, the seam or joint is inherently weather-proof without the use of solder or sealants.
   2. Provide locked and soldered seam or joint where slope and interlocking of seam would allow water penetration, and where rigid construction is required. Prepare edges to be seamed, form seams, and solder.
      a. Rivet joints for additional strength where recommended by CDA A4050.
   3. Provide sealant-filled expansion seams or joints only where lapped or bayonet-type expansion provisions in work cannot be used, or would not be water-and-weather-proof

Obtain the written authorization of the Architect in each case. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant concealed within joints.

F. Fastening:
1. Employ concealed cleats to fasten sheet metal to the substrate.
2. Do not fasten exposed fabrications directly to the substrate.
3. Conceal fasteners wherever possible. Obtain the Architect's written authorization where exposed fasteners are proposed.
4. Ensure fasteners are permanently sealed against water penetration.

1.04 SUBMITTALS

A. Product Data for each material.

B. Installer qualifications: Submit for Architect's approval within 7 days after notice of intent to award of subcontract.

~~C. Certificates: Submit with shop drawings.~~
~~1. Training completion certificate, including name of each attendee.~~

D. Shop Drawings:
1. Metal component profiles.
2. Joints and seams.
3. Joint and seam pattern.
4. Fastening methods.
5. Accessory items.
6. Relationship of roofing materials to adjacent construction.

E. Samples:
1. 6-inch-square samples of flat sheet metal, tinned on one edge.
2. Submit two samples of each of the following fabrications per each workman who will perform soldering. Identify each workman's samples.
a. 6-inch-square samples of flat locked soldered seams fabricated from two, 3-3/4 x 3 inch flat sheets, folded to form a 3/4 inch seam. Perform soldering with sheets in a horizontal position.
b. 6-inch-square samples of flat locked soldered seams fabricated from two, 3-3/4 x 3 inch flat sheets, folded to form a 3/4 inch seam. Perform soldering with sheets in a sloped position (slope equal to slope existing on the project) and with seam in a horizontal orientation.
c. 6-inch-square samples of flat locked soldered seams fabricated from two, 3-3/4 x 3 inch flat sheets, folded to form a 3/4 inch seam. Perform soldering with sheets in a vertical position and with seam in a vertical orientation.
d. Gutters or gutter liners:
1) 6 to 12 inch long sample of the cross-section of the gutter liner with end cap.
2) 6 to 12 inch long sample of the cross-section of the gutter liner with expansion joint.

1.05 QUALITY ASSURANCE

A. Installer: A company with at least 15 years of experience with installing products included in this section and which has completed at least 20 installations similar in scope to work included in this section.
1. Submit the names of at least 3 projects within 30 miles of the project site. Include project name, date of completion, name and telephone of Owner contact, name and telephone of Architect.
2. Submit within the time limits specified in the Bidding Requirements and General Conditions.

~~B. Preconstruction Services:~~
~~1. The Contractor shall pay for the fee of CDA Representative.~~

~~C. Preconstruction Installer Training: Schedule in advance of submission of Shop Drawings.~~
~~1. Schedule 2 consecutive days at the installer's shop for CDA Installer Training. Attendance:~~
~~a. Installer's foreman, shop crew, and field crew.~~
~~b. Instructor: CDA Representative.~~
~~c. Owner's or Architect's representative specializing in sheet metal roofing (optional).~~
~~2. Curriculum:~~
~~a. Lecture by instructor.~~
~~b. Soldering techniques demonstration by instructor.~~
~~c. Table-top demonstration exercises by instructor.~~
~~d. Hands-on table-top exercises by installer.~~
~~e. Instructional modules to be covered (soldering, standing seam, flat seam, gutters, etc.) shall include each module necessary for performing the work of the Project.~~
~~3. If the Installer's foreman and field crew for this Project have received CDA training and individual CDA certificates for the instructional modules applicable to this Project within a period of 3 years prior to the date of bid for this Project, the Contractor may submit a request for a waiver of preconstruction installer training for the Architect's consideration. Requests received after the date established for receipt of bids and issuance of addenda will be considered only in conjunction with a reduction in the Contract Price equal to the cost of the installer's time and materials and the cost of the CDA trainers.~~

D. Preconstruction Mock-up and Demonstration:
1. Attendance:
a. Installer's foreman and crew.
b. Owner's or Architect's representative specializing in sheet metal roofing (optional).
2. Construct mock-ups on site using flat sheet stock (no shop-formed fabrications, unless approved by the Architect) so as to demonstrate on site all aspects of preparation, fabrication, and installation of roofing work.
3. Construct roofing system mock-up with materials and methods identical to those to be used in the actual work.
4. Construct mock-up to include representative tasks and conditions on the Project.
5. Prepare substrate for mock-ups of wood board or plywood sheathing with suitable rigid supporting framing where necessary. Construct mock-ups on the ground. Do not construct mock-ups on the actual building.
6. Retain mock-ups at project site at least until acceptance of the work. Remove mock-ups from the project site thereafter.

E. Quality Standard:
1. Fabricate and install metal roofing work in accordance with CDA A4050 recommendations (especially sections 7 and 8 of "Copper in Architecture") unless specifically indicated otherwise.

1.06 DELIVERY, STORAGE AND HANDING

A. Follow metal manufacturer's recommendations for avoiding staining and marring of sheets.

B. Handle sheets with clean sheet metal worker's gloves.

C. Do not allow traffic of any kind on work.

1.07 WARRANTY

A. Provide Special Project Warranty specified in Section 01 78 10.

PART 2 PRODUCTS

2.01 SUBSTITUTIONS

A. Refer to Section 01 60 00 - Product Requirements.

2.02 MATERIALS

A. Copper Sheet: ASTM B370, H00 temper.
   1. Temper: H00 "cold-rolled".
      a. General use, unless otherwise indicated.
   2. Weight of Copper Sheet:
      a. 16 oz. per square foot, unless otherwise indicated.
      b. Flat Lock Seam Roofing: 20 oz. per square foot.
      c. Gutter Liner and Adjacent Running Trim: 24 oz. per square foot.
      d. All Other Running Trim: 20 oz. per square foot.
      e. Downspout: 16 oz. per square foot.

2.03 ACCESSORY MATERIALS

A. Fasteners for Copper Sheet:
   1. Nails: Copper or hardware bronze, 0.109 inch minimum x not less than 7/8 inch long; barbed with large head.
   2. Screws and bolts: Copper, bronze, or brass.
   3. Fixed cleats: Copper sheet; 2 inches wide 3 inches long.
   4. Expansion cleats: Copper sheet, size and configuration as indicated in CDA A4050 detail 4.1.4.
   5. Cleat gage: Fabricate cleats from metal of gage equal to the metal being fastened.
   6. Tinner's rivets: Solid; one-piece copper; 3/16" diameter shank; with copper washer.
   7. Pop Rivets: Copper with copper drive pins. Pop rivets shall not be used without the written permission of and at the sole discretion of the Architect, which permission may or may not be granted. Pop rivets are not usually permitted, and only occasionally are deemed to be useful.

B. Fasteners for Underlayment: Same type and material as for roofing sheets; nail through 1-inch-square washers cut from roofing sheet metal. Do not use plastic-cap-type nails.

C. Solder: ASTM B32.
   1. For copper sheet: 50/50 tin-lead solder; rosin flux.

D. Sealants in contact with Work of this Section:
   1. Concealed joints.
      a. Mastic sealant: Polyisobutylene sealant as specified in Section 07 92 00.
      b. Polyisobutylene sealant tape: As specified in Section 07 92 00.
   2. Exposed joints: Silicone as specified in Section 07 92 00.

E. Underlayment:
   1. No. 15 asphalt felt, ASTM D226/D226M Type I, unperforated.
   2. Self-adhesive roofing underlayment as specified in Section 07 31 26.

F. Slip Sheet: Rosin-sized paper, 5 lb. nominal weight.

G. Slip Sheet: Nonwoven polyester fabric for use in cold-applied single ply roof systems weighing 6 oz. per square yard; white, nonswelling, rot and mildew resistant.
   1. Phillips Fibers Corp: E-6-N Rufon Fabric.

H. Bituminous Coating: Heavy bodied, sulfur-free, asphalt-based paint; formulated for 15 mil application thickness; SSPC Paint 12.

2.04 FABRICATION

A. Shop and Field Fabrication:
   1. Shop fabricate work to the greatest extent possible.
   2. Whenever work of this section is in progress, maintain on the job site a complete set of tools and equipment capable of field fabricating any portion of the Work from flat sheet stock, and capable of field modifying any shop-fabricated item to suit field conditions as if fabricated new.
   3. Field tools and equipment shall include:
      a. Complete range of tongs in the necessary sizes and configurations.

b. Brake.
c. Tinning bath.
d. Soldering coppers.
e. Shear.
f. Necessary hand tools.
g. Other tools and equipment necessary for fabricating and installing Work of this Section.

4. Form work to fit substrate.
5. Form sheet metal to match profiles indicated, substantially free from oil-canning, buckling, tool marks, fish-mouths, and other defects.
6. Where details are not specifically indicated, comply with the CDA A4050 recommendations for metal roofing.

B. Shop-fabricate work to the greatest extent possible. Form sheet metal to match profiles indicated, substantially free from oil-canning, buckling, tool marks, fish-mouths, and other defects. Form work to fit substrate. Comply with material manufacturer's instructions and recommendations for forming material.

C. Fasten sheet metal with concealed cleats. Fabricate cleats and attachment devices from same material as sheet metal component being anchored. Employ exposed fasteners only where and if specifically approved by the Architect.

D. Form a 1/2-inch hem on underside of exposed edges.

E. Fabricate roofing components including sheets, seams, pans, cleats, strips, clips, cleats, expansion provisions, valleys, ridges, edge treatments, flashing, and other components to match profiles and details indicated and to ensure permanently leak-proof construction. Provide for thermal expansion of sheet metal.
1. Where details are not specifically indicated on the Drawings, comply with the CDA A4050 recommendations for metal roofing, especially 4.0, 4.1, 4.2, and 4.3.6.

F. Flat Lock Seam Roofing:
1. Nominal pan size: 16-1/2 x 22-1/2 inches finished (18 x 24 flat sheet), 15-3/4 x 21-3/4 coverage.
2. Seams soldered.
3. Expansion battens spacing: As shown on the drawings.

G. Built-in Gutter Liners:
1. Fabricate gutter liners from expansion joint to expansion joint (or end to end) using one piece of metal without transverse joints, unless otherwise approved.
2. Where transverse joints are required (such as corners without expansion joints) and approved, employ riveted and soldered lap joints. Ensure that sheet is properly prepared to bright metal, and tinned. Form a 1-1/2-inch-wide lap; provide 1 row of tinner's rivets 1/2 inch from edge; pre-punch holes spaced at 2 inches on center; provide a second row of rivets 1/2 inch from opposite edge of lap, staggered with first row. Peen rivets securely against washers. Solder a fully-sweated, water-tight lap.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates and conditions under which products of this section are to be installed and verify that work may properly commence. Do not proceed with the work until unsatisfactory conditions have been fully resolved.
1. Verify that nailers, blocking, and other attachment provisions for sheet metal work are properly located and securely fastened to resist effects of wind and thermal stresses.

3.02 PREPARATION

A. Coordinate sheet metal roofing with other sheet metal work and substrate construction to provide a complete and permanently water-tight installation.

B. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.

C. Clean surfaces to receive sheet metal work. Verify that substrates are smooth and free of protrusions, irregularities, or other defects.
   1. Drive nails or other fasteners flush with substrate.

D. Coat the back side of metal with bituminous coating where it will be in contact with wood, dissimilar metal, or cementitious construction unless surfaces will be separated by self-adhesive roofing underlayment.

3.03 INSTALLATION

A. General: Comply with sheet metal manufacturer's installation methods and CDA A4050 recommendations.
   1. Fabricate and install work with lines and corners of exposed units true and accurate.
   2. Form exposed faces flat and free of buckles, excessive waves, and avoidable tool marks considering temper and reflectivity of metal.
   3. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
   4. Fold back sheet metal to form a hem on concealed side of exposed edges.
   5. Conceal fasteners and expansion provision where possible in exposed work, and locate so as to minimize possibility of leakage.
   6. Cover and seal fasteners and anchors.

B. Underlayment:
   1. Install one layer of roofing felt underlayment with ends and edges lapped a minimum of 4 inches. Nail underlayment at 12 inches on center each way, and such that metal fasteners are flush and fully seated and none are exposed to underside of sheet metal roofing.
   2. Cover with a layer of rosin-sized building paper. Loose-lay the paper or use adhesive or mastic roofing cement to secure. Do not use metal fasteners to secure paper.
   3. Wherever soldered flat-seam roofing will be installed or wherever a fabrication will be soldered in-situ, install one layer of nonwoven polyester fabric in lieu of rosin-sized paper if mock-up demonstrated that rosin-sized paper or underlayment is excessively damaged by soldering.

3.04 SEAMS AND JOINTS

A. General: Wherever practicable select joints that are permanently, inherently weather-tight and allow for thermal movement, and do not rely on solder or sealant for their integrity. Otherwise, use soldered joints wherever movement is not essential. Avoid the use of sealant joints except where movement must be accommodated.

B. Lapped Seams, Soldered and Riveted: Rivet and solder joints for additional strength where indicated or where recommended by CDA A4050. Ensure that sheet is properly prepared to bright metal, and tinned. Form a 1-1/2-inch-wide lap; provide 1 row of tinner's rivets 1/2 inch from edge; pre-punch holes spaced at 2 inches on center; provide a second row of rivets 1/2 inch from opposite edge of lap, staggered with first row. Solder a fully-sweated, water-tight lap.

C. Expansion Provisions: Where lapped or bayonet-type expansion provisions in work cannot be used, or would not be water-and-weather-proof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant concealed within joints.

D. Sealant Joints: Where movable, non-expansion-type joints are indicated or required for proper performance of roofing, form sheet metal to provide for proper installation of elastomeric sealant as recommended by referenced standards.

E. Soldered Seams and Joints in Copper Sheet:
   1. Clean surfaces to be soldered, removing oils and foreign matter.
   2. Abrade sheets to bright metal before soldering.
   3. Neatly pre-tin edges of sheets to be soldered in a bath unless configuration prohibits the use of a bath; pretin in situ using heated soldering coppers only where detailed work cannot be tinned in a bath. Pre-tin to a width of 1-1/2 inches.

4. Ensure that pre-tinned surfaces are soldered up as permanent work on the same day as pre-tinning occurs. Do not use pre-tinned surfaces that were tinned the previous day.
   a. Soldered flat seam roofing: Plan and schedule flat seam work such that no seams to be soldered are left overnight. Where the scope and extent of flat seam work requires that work be extended from one day to the next, take special quality control precautions to ensure that each day's work is successfully soldered (reliably fully sweated through) to the previous days work.
5. Employ heavy, heated soldering coppers to solder seams. Do not use direct flame torches for soldering.
6. Heat surfaces to receive solder and flow solder into joint. Fill joint completely.
7. Remove flux and solder spatter from exposed surfaces. Neutralize acidic flux with baking soda and fresh water.
8. Cover exposed and concealed surfaces to protect from corrosive spray when soldering coppers are dipped to clean.

F. Moving Joints:
1. When ambient temperature is moderate (40-70 degrees F) at time of installation, set joined members for 50 percent movement either way.
2. Adjust setting position of joined members proportionally for temperatures above 70 degrees F.
3. Do not install sealant at temperatures below 40 degrees F.
4. Refer to section on sealants elsewhere in Division 07 for handling and installation requirements for joint sealers.

3.05 CLEANING AND PROTECTION

A. Repair or replace work which is damaged or defaced, as directed by the Architect.

B. Remove from sheet metal surfaces any debris or substances which will inhibit uniform weathering.

C. Protect sheet metal work as recommended by the installer so that completed work will be clean, secured, and without damage at Substantial Completion.

END OF SECTION

SECTION 07 71 23 - GUTTERS AND DOWNSPOUTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Gutters.

B. Downspouts.

C. Downspout boots.

1.02 REFERENCES

A. ASTM B370 - Standard Specification for Copper Sheet and Strip for Building Construction; 2012 (Reapproved 2019).

B. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors' National Association; 2011.

1.03 SUBMITTALS

A. Product Data:
   1. Provide data on prefabricated components.

B. Samples: Submit two samples, 6 inch long illustrating finish.

C. Shop Drawings: Indicate configurations, jointing methods, fastening methods, and installation details. Provide a plan drawing indicating type and location of joints.

1.04 DELIVERY, STORAGE, AND PROTECTION

A. Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.

B. Prevent contact with materials that could cause discoloration, staining, or damage.

PART 2 PRODUCTS

2.01 SUBSTITUTIONS

A. Refer to Section 01 60 00 - Product Requirements.

2.02 MATERIALS

A. Copper: ASTM B370, cold rolled; natural finish.
   1. Thickness: 16 oz.

B. Fasteners:
   1. Copper, brass.

2.03 ACCESSORIES

A. Downspout Boots: Cast iron.
   1. Manufacturer: Zurn. Product 4" x 18" Downspout Book with Round Inlet and Outlet

B. Leaf traps: Copper.

2.04 FABRICATION

A. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance.

B. Gutters:
   1. SMACNA Rectangular style as indicated on the drawings.
   2. Depth: 4" inches. Width: Match existing.
   3. Roll-Form gutters in continuous lengths without transverse seams except at expansion joints and corners unless otherwise required or permitted.
   4. Fabricate expansion joints as shown in SMACNA Figure 1-6 or 1-7.
   5. Provide gutter brackets as shown in SMACNA Figure 1-12.

a. 1/4 x 1-1/2 inch.

6. Provide gutter spacers as shown in SMACNA Figure 1-12
7. Rivet seams, end caps, corners, and downspout outlets to form strong, permanent construction.
8. Tin edges of copper/stainless sheet, and solder metal joints weathertight. After soldering, remove flux. Wipe and wash solder joints clean.

C. Downspouts:
1. SMACNA Fig. 1-31, round profile.
2. Shop-fabricated hangers, SMACNA profile as indicated on the drawings.
3. Size: 4" round
4. Form bends and offsets as required by project conditions.
5. Crimp and form slip-joints in downspouts, and secure with mechanical fasteners.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that surfaces are ready to receive work.

3.02 INSTALLATION

A. Install in accordance with SMACNA instructions.

B. Box and Ogee Gutters:
1. Do not fix gutter to building with fasteners other than within 2 feet of the center of the gutter length.
2. Support gutters on brackets spaced at not more than 36 inches o.c. Install spacers at not more than 36 inches o.c. Stagger brackets and spacers 18 inches.
3. Provide redundant gutter bed as described on drawings.

C. Slope gutters to downspouts, as indicated.

D. Connect downspouts to downspout boots and include leaf traps.

E. Connect downspout boots to storm sewer system in accordance with requirements in plumbing specifications.

END OF SECTION

SECTION 08 51 13 - ALUMINUM WINDOWS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Factory-assembled, factory-glazed windows.

B. Trim.

C. Sealing of windows to adjacent interior and exterior construction.

1.02 REFERENCES

A. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections; 2009.

B. AAMA 511 - Voluntary Guideline for Forensic Water Penetration Testing of Fenestration Products;2008.

C. AAMA 701/702 - Combined Voluntary Specifications for Pile Weatherstrip and Replaceable Fenestration Weatherseals; 2011.

D. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; 2015.

E. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for windows, doors, and skylights; 2017.

F. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.

G. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.

H. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference; 2015.

I. ASTM E1996 - Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes; 2017.

J. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2010.

K. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).

L. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014.

M. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2016).

N. ASTM E783 - Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors; 2002 (Reapproved 2018).

O. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

P. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2017.

Q. ANSI A117.1 1986 edition

1.03 SUBMITTALS

A. Initial Product Information:
   1. Product Data: Provide manufacturer's product data demonstrating compliance with the Contract Documents. Illustrate construction of units and internal drainage details.
   2. Samples: Submit one full unit 46 x 90 inches in size. Include:
      a. Frame section.
      b. Operating sash.

c. Mullion section.
d. Factory finishes.
e. Glass and glazing materials.
f. Trim.

3. Samples: Submit cut-away section 12 x 12 inches in size illustrating:
   a. Frame section.
   b. Operating sash.
   c. Mullion section.
   d. Factory finishes.
   e. Glass and glazing materials.
   f. Trim.
4. Manufacturer's Installation Instructions: Include complete preparation, installation, joining, sealing, and cleaning requirements.
5. Certificates: Submit independent testing laboratory certification of compliance with AMMA, NFRC, ASTM, and other specified performance criteria.

B. Shop Drawings:
   1. Indicate opening dimensions, elevations for different types, framed opening tolerances, method for achieving air and vapor barrier seal to adjacent construction, anchorage locations, and requirements for coordinating sealing to and anchoring to adjacent construction.
   2. Show required trim.

C. In-Progress Reports:
   1. Field test reports.

D. Closeout Submittals: Warranty.

1.04 QUALITY ASSURANCE

A. Installer Qualifications:
   1. Installers shall hold a current "InstallationMasters" identification card, demonstrating certification through the InstallationMasters Program provided by the Building Environment and Thermal Envelope Council (BETEC) through the U.S. Department of Energy and developed by the American Architectural Manufacturers Association (AAMA). www.installationmastersusa.com.

B. Mock-Up:
   1. Before beginning the installation of windows, construct a mock-up of one window on the building in a location acceptable to the Architect.
      a. Mock-up the complete exterior wall assembly including back-up, weather and thermal protection, anchorage devices, flashings, and seals.
      b. Cover the mock-up with ~~additional materials such as exterior cladding and~~ interior finishes only when all of the following have been satisfied: 1) When mock-up has been accepted by Architect, and 2) Architect so directs in writing.
   2. Scheduling:
      a. Provide notice to the Architect of the anticipated starting and ending times and dates when each material included in the mock-up will be constructed, so that the Architect may observe the installation of such materials prior to covering with subsequent materials.
      b. Schedule construction of the entire mock-up to occur over a time period acceptable to the Architect.
   3. Approved mock-ups (in conjunction with the other requirements of the Contract Documents) shall be a standard of quality for judging the Work.

1.05 DELIVERY, STORAGE, AND PROTECTION

A. Comply with requirements of AAMA CW-10.

B. Protect finished surfaces with wrapping paper or strippable coating during installation. Do not use adhesive papers or sprayed coatings that bond to substrate when exposed to sunlight or weather.

1.06 ENVIRONMENTAL REQUIREMENTS

A. Do not install sealants when ambient temperature is less than 40 degrees F and when temperatures are expected to drop below point during the curing period specified by the sealant manufacturer.

1.07 WARRANTY

A. Manufacturer's Warranty.
1. Windows furnished are certified as fully warranted against any defects in material or workmanship under normal use and service for a period of ten years from date of fabrication.
2. Provide ten year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units.
3. Provide ten year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Aluminum Windows:
1. Basis of Design: Graham Architectural Products; Product Series GT2200 Single Hung.
2. St. Cloud; 5020 series Architectural Grade single-hung historic windows.
3. Winco; 4410S series Architectural Grade single-hung historic windows.

B. Substitutions: See Section 01 60 00 - Product Requirements.
1. Note: pour and de-bridge thermal breaks are not acceptable.

2.02 PERFORMANCE REQUIREMENTS

A. Each unit shall be labeled with a certificate attesting to compliance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 100, and other applicable standards for the performance levels specified below.

B. Design windows and size components to withstand the following load requirements, when tested in accordance with ASTM E330/E330M using test loads equal to 1.5 times the design wind loads with 10 second duration of maximum load:
1. Design Wind Loads: As indicated on the Structural Drawings for components and cladding.
2. Member Deflection: Limit member deflection to 1/175 in any direction, with full recovery of glazing materials.

C. Wind-Borne Debris Resistance: Tested by independent agency and passed in accordance with ASTM E1996 for Wind Zone 1 - enhanced protection for large and small missile impact and pressure cycling under design wind pressure.

D. Windows within accessible and adaptable dwellings shall comply with the following:
1. ANSI A117.1 1986 edition, Section 4.12.
2. ICC A117.1.

E. Additional Requirements:
1. Comply with AAMA/WDMA/CSA 101/I.S.2/A440 with additional requirements as follows:
2. Performance Class: AW.
3. Performance Grade: 40.
4. Water Leakage: None, when measured in accordance with ASTM E331 with a test pressure difference of 12 lbf/sq ft.

5. Air Infiltration: Limit air infiltration through assembly to 0.25 cu ft/min/sq ft of window unit, measured at a reference differential pressure across assembly of 6.24 psf as measured in accordance with ASTM E283.
6. Thermal U-factor of window unit, including glazing and framing, determined per NFRC 100: 0.45.
7. Maximum SHGC of fenestration: 0.40.
8. Condensation Resistance Factor: CRF of 62 when measured in accordance with AAMA 1503.

2.03 WINDOWS

A. Profiles: Head, jamb, and sill profile as indicated on the drawings. The sashes shall have cast aluminum historic lugs as shown in the drawings. Show lugs in shop drawings.

B. Aluminum frame and sash; factory fabricated and assembled, factory glazed, and factory finished.

C. Operation:
1. Fixed, non-operable sash.
2. Single hung.

2.04 GLAZING

A. General Requirements:
1. Comply with ASTM E2190, Class CBA.
2. Purge inter-pane space with dry air, hermetically sealed.

B. Clear Insulating Low-E Glass Units: Double pane with glass to elastomer edge seal.
1. Outer pane of clear glass, inner pane of clear glass.
2. Low-E Coating: Place low-e coating on No. 2 surface within the unit.

C. Edge Seal Construction: Aluminum, bent and soldered corners.

2.05 ACCESSORIES

A. Provide trim and profiles as shown and as necessary for a complete installation.
1. Basis of Design:
a. Typical Panning: Graham Architectural Products; Graham Fulton #2 profile. To be fabricated by manufacturer.
b. Deep Panning: Graham Architectural Products; Graham North HS 6.5 inch profile. Manufacturer fabricated.
2. The exterior perimeter caulk joint leg of the profiled pre-set panning must be at least 1.25 inch long in order to provide adequate space for both the backer rod and the exterior perimeter seal at the head and jamb conditions.

B. Fasteners: Non-corrosive.
1. Do not use exposed fasteners on exterior except where unavoidable for application of hardware. Match finish of adjoining metal.
2. Provide non-magnetic stainless steel, tamper-proof screws for exposed fasteners, where required, or special tamper-proof fasteners.
3. Locate fasteners so as not to disturb the thermal barrier construction of windows.

C. Anchors, Clips And Window Accessories: Depending on strength and corrosion-inhibiting requirements, fabricate units of aluminum, non-magnetic stainless steel or hot-dip zinc coated steel or iron complying with ASTM A 123.

D. Provide brackets for securing units to rough opening.

E. Flexible Flashing around window opening.
1. ProSoCo, Inc.; Fast Flash Liquid flashing membrane: www.prosoco.com.

F. Operable Sash Weather Stripping:
1. Dual weatherstripping (two independent lines), permanently resilient, profiled to effect weather seal.

2. Double weatherstripping using silicone coated woven pile with a polypropylene center fin; permanently resilient, profiled to maintain weather seal in accordance with AAMA 701/702.

G. Weather Seal: High movement silicone sealant specified in Section 07 92 00.

H. Provide all related flashings, and anchorage, and attachment devices.

I. Master Frame: Not more than ~~4~~ 5 inches in depth.

J. Locking Hardware: Provide hardware to lock windows in dark bronze.

K. Provide balances.

2.06 MATERIALS

A. Extruded Aluminum: ASTM B221, 6063 alloy, T6 temper.

B. Sheet Aluminum: ASTM B209, 5005 alloy, H12 or H14 temper.

2.07 FABRICATION

A. Fabricate components with smallest possible clearances and shim spacing around perimeter of assembly that will enable window installation and dynamic movement of perimeter seal.

B. Accurately fit and secure joints and corners. Make joints flush, hairline, and weatherproof.

C. Prepare components to receive anchor devices.

D. Arrange fasteners and attachments to ensure concealment from view.

E. Prepare components with internal reinforcement for operating hardware.

F. Provide steel internal reinforcement in mullions as required to meet loading requirements.

G. Provide internal drainage of glazing spaces to exterior through weep holes.

H. Factory glaze window units.

2.08 FINISHES

A. Aluminum Finish:

1. Superior Performance Organic Coating System: AAMA 2605 70% Kynar baked on, electrostatically applied enamel coating.

B. Color: Frame and panning c~~C~~olors as scheduled.

C. Exposed Hardware: Enameled to match window color as scheduled.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall openings and adjoining air and vapor seal materials are ready to receive windows.

3.02 PREPARATION

A. Existing Construction:

1. Existing windows were removed during selective demolition. Secure weather tight covering has been installed at all window openings. Do not remove weather tight covering until new windows are available and ready for immediate installation. Do not leave any openings uncovered at end of working day, during wind-driven precipitation or during excessively cold weather.
2. Remove existing work carefully; avoid damage to existing work to remain.

B. Perform operations as necessary to prepare openings for proper installation and operation of new retrofit units or new construction units.

C. Verify openings are in accordance with shop drawings and Architects Drawings.

3.03 INSTALLATION

A. Install windows in accordance with manufacturer's instructions.

B. Ensure that aluminum sill angle is in place, secured, and properly sealed water-tight to the weather resistant barrier.

C. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities.
   1. Raise unit on plastic shims at sill. Do not rest unit directly on sill.
   2. Secure unit to rough opening with mounting brackets. Locate brackets within 4 to 6 inches of each corner and additionally at 15 inches o.c. Locate brackets at each mull and check and meeting rail.
   3. Do not install brackets along sill or penetrate sill flashing.
   4. Locate shims at each mounting bracket.

D. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work.

E. Coordinate attachment and seal of perimeter air barrier and vapor retarder materials.

F. Install perimeter sealant in accordance with requirements specified in Section 07 92 00 - Joint Sealers.

G. Install operating hardware that is not pre-installed by manufacturer.

3.04 ERECTION TOLERANCES

A. Maximum Variation from Level or Plumb: Not more than 1/16 inches every 3 ft non-cumulative nor more than 1/8 inches per 10 ft.

3.05 FIELD QUALITY CONTROL

A. Test installed windows assemblies for compliance with performance requirements for water penetration, in accordance with ASTM E1105, and as follows.
   1. Arrange the test apparatus so as to test not only the window assembly, but also to test the seal between it and the adjacent weather barrier (such as dampproofing on masonry, weather barrier on sheathing, etc.). Perform testing prior to installation of cladding (such as brick, siding, panels, etc.).
   2. Perform testing at a uniform pressure equal to 2/3's of the manufacturer's published laboratory test value for water penetration.
   3. First establish an air pressure of 50% of the required value, hold for 5 minutes, and report any water leakage; then establish an air pressure of 75% of the required value, hold for 5 minutes, and report any water leakage; then establish the required air pressure and complete the test in accordance with ASTM E1105.
      a. Method A: Hold air pressure at 100% of the required value for 15 minutes, and report any water leakage.
   4. In the event that the test of a unit fails, perform additional forensic water penetration testing on that same unit in accordance with 1 to identify and analyze the nature of the failure.

B. Field test for air leakage in accordance with ASTM E783 with uniform static air pressure difference specified in PART 2.
   1. Maximum allowable rate of air leakage is 1.5 times the rate specified in PART 2 as indicated in AAMA/WDMA/CSA 101/I.S.2/A440.

C. Frequency:
   1. Test windows installed on the building at the following frequency:
   2. Test 5 percent of installed windows; include each type and configuration.
   3. If any window fails, test additional windows at Contractor's expense.

D. Replace if required or make corrections necessary to windows that have failed field testing so as to bring them into newly manufactured conforming condition, and retest until performance is satisfactory.

3.06 PROTECTION

A. Do not allow caustic or acidic materials such as cement, lime, mortar, or chemicals (or other agents that would stain or mar) to contact frame or glass surfaces.

3.07 ADJUSTING AND CLEANING

A. Adjust hardware for smooth operation and secure weathertight closure.

B. Remove protective material from factory finished surfaces.

C. Wash surfaces by method recommended and acceptable to window manufacturer; rinse and wipe surfaces clean.

D. Remove excess sealant by moderate use of solvent acceptable to window manufacturer.

E. Remove exposed labels only after the approval of the Architect and prior to final completion of the Project. At final completion of the project, glass shall be clean and polished inside and outside, without visible dirt, dust, or staining of any kind.

END OF SECTION

SECTION 10 14 00 - SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Room and door signs.

B. Luminous egress path marking and other "glow-in-the-dark" signs.

C. Emergency evacuation maps.

1.02 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.

B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.

C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.03 SUBMITTALS

A. See Section 01 30 00 – Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.

C. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.

D. Samples: Submit two samples of each type of sign, of size similar to that required for project, illustrating sign style, font and method of attachment.

E. Selection Samples: Where colors are not specified, submit two sets of color selection charts or chips.

F. Manufacturer's Installation Instructions: Include installation templates and attachment devices.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Package signs as required to prevent damage before installation.

B. Package room and door signs in sequential order of installation, labeled by floor or building.

C. Store tape adhesive at normal room temperature.

1.04 FIELD CONDITIONS

A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.

B. Maintain this minimum temperature during and after installation of signs.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Flat Signs:

1. Best Sign Systems, Inc: www.bestsigns.com/#sle.
2. Cosco Industries (ADA signs); ADA Series 1: www.coscoarchitecturalsigns.com/#sle.
3. Cosco Industries (non-ADA signs); Changeable Message Signs: www.coscoarchitecturalsigns.com/#sle.
4. FASTSIGNS: www.fastsigns.com/#sle.
5. Inpro: www.inprocorp.com/#sle.
6. Mohawk Sign Systems, Inc: www.mohawksign.com/#sle.
7. Seton Identification Products: www.seton.com/aec/#sle.
8. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 SIGNAGE APPLICATIONS

A. Accessibility Compliance: Signs are required to comply with ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

B. Room and Door Signs: Provide a sign for every doorway, whether it has a door or not, not including corridors, lobbies, and similar open areas.
   1. Sign Type: Flat signs with engraved panel media as specified.
   2. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
   3. Refer to drawings for size of sign and character height.
   4. Office Doors: Identify with the room names and numbers indicated on drawings; in addition, provide "window" section for replaceable occupant name.
   5. Conference and Meeting Rooms: Identify with the room names and numbers indicated on drawings.
   6. Service Rooms: Identify with the room names and numbers indicated on drawings.
   7. Rest Rooms: Identify with pictograms, the names "MEN" and "WOMEN", room numbers indicated on the drawings, and braille.

C. Luminous Egress Path Marking and Other "Glow-in-the-Dark" Signs: Photoluminescent media.
   1. Provide luminous egress path marking as required by local authority having jurisdiction.

D. Emergency Evacuation Maps:
   1. Allow for one map per elevator lobby.
   2. Map content to be provided by Owner.
   3. Use clear plastic panel silk-screened on reverse, in brushed aluminum frame, screw-mounted.

2.03 SIGN TYPES

A. Flat Signs: Signage media without frame.
   1. Edges: Square.
   2. Corners: Square.
   3. Wall Mounting of One-Sided Signs: Tape adhesive.

B. Color and Font: Unless otherwise indicated:
   1. Character Font: Helvetica, Arial, or other sans serif font.
   2. Character Case: Upper case only.
   3. Background Color: To be selected by Architect.
   4. Character Color: Contrasting color.

2.04 TACTILE SIGNAGE MEDIA

A. Engraved Panels: Laminated colored plastic; engraved through face to expose core as background color:
   1. Total Thickness: 1/16 inch.

2.05 NON-TACTILE SIGNAGE MEDIA

A. Silk Screened Plastic Panels: Letters and graphics silk screened onto reverse side of plastic surface:
   1. Sign Color: Clear.
   2. Total Thickness: 1/8 inch.

2.06 ACCESSORIES

A. Tape Adhesive: Double sided tape, permanent adhesive.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install neatly, with horizontal edges level.

C. Locate signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1.

D. Protect from damage until Date of Substantial Completion; repair or replace damaged items.

END OF SECTION

SECTION 14 21 00 - ELECTRIC TRACTION ELEVATORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Complete electric traction elevator systems.
   1. Passenger type.

B. Elevator Maintenance Contract.

1.02 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.

B. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2014 (2015 Errata).

C. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.

D. AISC 360 - Specification for Structural Steel Buildings; 2016.

E. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015.

F. ASME A17.1 - Safety Code for Elevators and Escalators; 2019.

G. ASME QEI-1 - Standard for the Qualification of Elevator Inspectors; 2018.

H. ASTM A276/A276M - Standard Specification for Stainless Steel Bars and Shapes; 2017.

I. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.

J. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.

K. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric); 2014.

L. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

M. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2015, with Errata (2016).

N. NEMA MG 1 - Motors and Generators; 2018.

O. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

P. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2019.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate work with other installers to provide necessary conduits for proper installation of wiring, including but not limited to, the following:
      a. Elevator equipment devices remote from elevator machine room or hoistway.
      b. Telephone service for elevator.
      c. Elevator pit for lighting and sump pump.
      d. Fire alarm panel from controller cabinet.
   2. Coordinate work with other installers for equipment provisions necessary for proper elevator operation, including but not limited to, the following:
      a. Automatic transfer switches with auxiliary contacts for emergency power transfer status indication.
      b. Overcurrent protection devices selected to achieve required selective coordination.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Submit data on following items:
   1. Signal and operating fixtures, operating panels, and indicators.

2. Car design, dimensions, layout, and components.
3. Car and hoistway door and frame details.
4. Electrical characteristics and connection requirements.

C. Shop Drawings: Include appropriate plans, elevations, sections, diagrams, and details on following items:
1. Elevator Equipment and Machines: Size and location of driving machines, power units, controllers, governors, and other components.
2. Hoistway Components: Size and location of car machine beams, guide rails, buffers, ropes, and other components.
3. Rail bracket spacing; maximum loads imposed on guide rails requiring load transfer to building structural framing.
4. Clearances and over-travel of car and counterweight.
5. Locations in hoistway and machine room of traveling cables and connections for car lighting, telephone, and _____.
6. Location and sizes of hoistway and car doors and frames.
7. Electrical characteristics and connection requirements.
8. Indicate arrangement of elevator equipment and allow for clear passage of equipment through access openings.

D. Samples: Submit samples illustrating car floor material, car interior finishes, car and hoistway door and frame finishes, and handrail material and finish in the form of cut sheets or finish color selection brochures.

E. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

F. Initial Maintenance Contract.

G. Maintenance Contract: Submit proposal to Owner for standard one year continuing maintenance contract agreement in accordance with ASME A17.1 and requirements as indicated, starting on date initial maintenance contract is scheduled to expire.
1. Indicate in proposal the services, obligations, conditions, and terms for agreement period and for renewal options.

H. Operation and Maintenance Data:
1. Parts catalog with complete list of equipment replacement parts; identify each entry with equipment description and identifying code.
2. Operation and maintenance manual.
3. Schematic drawings of equipment, and wiring diagrams of installed electrical equipment with list of corresponding symbols to identify markings on machine room and hoistway apparatus.

1.05 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Provide manufacturer's warranty for elevator operating equipment and devices for one year from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design - Electric Traction Elevators: AVT Lifts; MRL Traction Elevator: www.avtlifts.com.

B. Other Acceptable Manufacturers - Electric Traction Elevators:
1. Otis Elevator Company: www.otis.com/#sle.
2. Schindler Elevator Corporation: www.us.schindler.com/#sle.
3. ThyssenKrupp Elevator: www.thyssenkruppelevator.com/#sle.

C. The following Elevator installing Companies may supply and install elevator equipment purchased from third party manufacturers but must meet the requirements of this specification:
   1. DC Elevator: www.dcelevator.com/.
   2. The Murphy Elevator Co.: www.murphyelevator.com
   3. Oracle Elevator Company: www.oracleelevator.com.

2.02 ELECTRIC TRACTION ELEVATORS

A. Electric Traction Passenger Elevator, A:
   1. Electric Traction Elevator Equipment:
   2. Drive System:
   3. Operation Control Type:
   4. Service Control Type:
      a. Standard service control only.
   5. Interior Car Height: 93 inch.
   6. Electrical Power: 208 volts; alternating current (AC); three phase; 60 Hz.
   7. Rated Net Capacity: 3500 pounds.
   8. Rated Speed: 200 feet per minute.
   9. Hoistway Size: 100 inch wide by 83 inch deep.
   10. Interior Car Platform Size: 78 inch wide by 65 inch deep.
   11. Elevator Pit Depth: 60 inch.
   12. Overhead Clearance at Top Floor: 165 inch.
   13. Travel Distance: As indicated on drawings.
   14. Number of Stops: As indicated on drawings.
   15. Number of Openings: 4 Front.
   16. Traction Machine Location: Top of hoistway shaft.

2.03 COMPONENTS

A. Elevator Equipment:
   1. Motors, Controllers, Controls, Buttons, Wiring, Devices, and Indicators: Comply with NFPA 70 requirements, and refer to Section 26 05 83 for additional requirements.
   2. Guide Rails, Cables, Counterweights, Sheaves, Buffers, Attachment Brackets and Anchors: Design criteria for components includes safety factors in accordance with applicable requirements of Elevator Code, ASME A17.1.
   3. Buffers:
      a. Spring type for elevators with speed less than or equal to 200 feet per minute.
   4. Lubrication Equipment:
      a. Provide grease fittings for periodic lubrication of bearings.
      b. Grease Cups: Automatic feed type.
      c. Lubrication Points: Visible and easily accessible.

B. Electrical Equipment:
   1. Motors: NEMA MG 1.
   2. Boxes, Conduit, Wiring, and Devices: Complying with NFPA 70 and in accordance with Sections 26 05 33.13 and 26 05 83.
   3. Spare Conductors: Provide ten percent in extra conductors and two pairs of shielded audio cables in traveling cables.
   4. Include wiring and connections to elevator devices remote from hoistway and between elevator machine room. Provide additional components and wiring to suit machine room layout. Refer to Section 26 05 83.

2.04 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with ASME A17.1, applicable local codes, and authorities having jurisdiction (AHJ).

B. Accessibility Requirements: Comply with ADA Standards.

C. Perform structural steel design, fabrication, and installation in accordance with AISC 360.

D. Perform welding of steel in accordance with AWS D1.1/D1.1M.

E. Fabricate and install door and frame assemblies in accordance with NFPA 80 and complying with requirements of authorities having jurisdiction (AHJ).

F. Perform electrical work in accordance with NFPA 70.

2.05 OPERATION CONTROLS

A. Elevator Controls: Provide landing operating panels and landing indicator panels.
   1. Landing Operating Panels: Metallic type, one for originating "Up" and one for originating "Down" calls, one button only at terminating landings; with illuminating indicators.
   2. Landing Indicator Panels: Illuminating.
   3. Comply with ADA Standards for elevator controls.

B. Interconnect elevator control system with building security, fire alarm, card access, smoke alarm, and building management control systems.

C. Door Operation Controls:
   1. Program door control to open doors automatically when car arrives at floor landing.
   2. Render "Door Close" button inoperative when car is standing at dispatch landing with doors open.
   3. Door Safety Devices: Moveable, retractable safety edges, quiet in operation; equipped with photo-electric light rays.

2.06 OPERATION CONTROL TYPE

A. Single Automatic (Push Button) Operation Control: Applies to car in single elevator shaft.
   1. Refer to description provided in ASME A17.1.
   2. Set system operation so that momentary pressure of landing button dispatches car from other landing to that landing.
   3. Allow call registered by momentary pressure of landing button at any time to remain registered until car stops in response to that landing call.
   4. If elevator car door is not opened within predetermined period of time after car has stopped at terminal landing allow car to respond to call registered from other landing.

2.07 EMERGENCY POWER

A. Set-up elevator operation to run with building emergency power supply when the normal building power supply fails, and in compliance with ASME A17.1 requirements.

B. Building Emergency Power Supply: Supplied by backup generator; provide elevator system components as required for emergency power characteristics with phase rotation the same as for normal power.
   1. Provide transfer switches and auxiliary contacts.
   2. Install connections to power feeders.

C. Emergency Lighting: Comply with ASME A17.1 elevator lighting requirements.

D. Provide operational control circuitry for adapting the change from normal to emergency power.

E. Upon transfer to emergency power, advance ~~one~~ elevator ~~at a time~~ to a pre-selected landing, stop car, open doors, disable operating circuits, and hold in standby condition.

2.08 MATERIALS

A. Stainless Steel Sheet: ASTM A666, Type 304; No. 4 Brushed finish unless otherwise indicated.

B. Stainless Steel Bars, Shapes and Moldings: ASTM A276/A276M, Type 304.

C. Aluminum Sheet: ASTM B209 (ASTM B209M), 3105 alloy, O temper.

D. Tempered Glass: 3/8 inch minimum thickness, fully tempered in compliance with ASME A17.1, 16 CFR 1201, ANSI Z97.1, and ASTM C1048 tempered glass requirements.

E. Resilient Flooring: Vinyl tile flooring and Resilient base, as specified in Section 09 65 00.

2.09 CAR AND HOISTWAY ENTRANCES

A. Elevator, A:
1. Car and Hoistway Entrances:
a. Hoistway Fire Rating: 2 Hours.
b. Elevator Door Fire Rating: 1-1/2 Hours.
c. Framed Opening Finish and Material: Brushed stainless steel.
d. Car Door Material: Stainless steel, with rigid sandwich panel construction.
e. Hoistway Door Material: Stainless steel, with rigid sandwich panel construction.
f. Door Type: Single leaf.
g. Door Operation: Side opening, single speed.
h. Door Width: 42 inch.
i. Door Height: 84 inch.
j. Sills: Manufacturer's standard.

2.10 CAR EQUIPMENT AND MATERIALS

A. Elevator Car, A:
1. Car Operating Panel: Provide main and auxiliary; flush-mounted applied face plate, with illuminated call buttons corresponding to floors served with "Door Open/Door Close" buttons, "Door Open" button, "Door Close" button, and alarm button.
a. Panel Material: Integral with front return; one per car.
b. Car Floor Position Indicator: Above door with illuminating position indicators.
c. Locate alarm button not more than 35 inch above car finished floor.
d. Provide following within service cabinet as part of car operating panel:
1) Switch for each auxiliary operational control, keyed.
2) Switches for fan, light, inspection control, and emergency stop.
3) Emergency light.
4) Telephone cabinet and hard-wired connection with telephone.
2. Flooring: Resilient Tile: LVT1, See Finish Legend.
3. Wall Base: Recessed stainless steel, 4 inch high.
4. Front Return Panel: Match material of car door.
5. Door Wall: Stainless steel.
6. Side Walls: Stainless steel.
7. Rear Wall: Stainless steel.
8. Hand Rail: Stainless steel, at three side walls. Provide open clearance space 1-1/2 inch (38 mm) wide to face of wall.
a. Stainless Steel Finish: No. 4 Brushed.
9. Ceiling:
a. Frame Finish: Color anodized aluminum.
b. Lay-in Panel: Aluminum sheet.
c. Lighting: As selected from manufacturer's standard line.

B. Control Panel
1. Keys and switches:
a. Provide switches for lights, fan (2-speed), emergency stop and service and/or inspection.
1) Toggle switches shall be located behind a locked door keyed with a best 7-pin small format cylinder. Door to have “Slam door lockset for service cabinet with a Yale or Best 7-pin security switch with removable core by Innovation Industries, Inc. or equal.
2) Key should be removable only in the normal locked position.
3) Use Best Cylinder with removable core and 7-pin small format for CPPD Division and 7-pin small format Yale cylinders with removable core for MPPD. Other Facilities Management Divisions will specify their keying options in specifications.

b. Provide a two-speed fan switch; key should be removable in all positions; use Best Cylinder with removable core for CPPD and 7-pin Yale with removable core for MPPD). Other Facilities Management Divisions will specify their keying options in specifications.
c. Provide each car-operating panel with an emergency stop key switch, key should be removable in all positions; use Best Cylinder with removable core for CPPD and 7-pin Yale with removable core for MPPD). Other Facilities Management Divisions will specify their keying options in specifications.
    1) Position the cylinder near the bottom of the pushbuttons with the key removable in either position and with one set of normally closed contacts.
    2) Mark the switch with etched, engraved, or embossed “ON” and “OFF.”
d. Where special key switches or card readers and/or other devices are used to lock out particular floor and/or functions:
    1) Wire controls so as not to interfere with Fire Service operation.
    2) Provide temporary inactivated push buttons for each floor even if a key switch, card reader, and/or other devices are required.
e. For restricted access to a Penthouse mechanical room, provide lock-out keyed switch on the Penthouse push button (the push button is to be activated by the keyed switch); key shall not be removable in the activation position. (Use Best Cylinder with removable core for CPPD and 7-pin Yale with removable core for MPPD). Other Facilities Management Divisions will specify their keying options in specifications.
f. For unrestricted elevator service to the penthouse, provide a keyed switch to over-ride the Penthouse mechanical room keyed button lock-out switch; key shall be removable in all positions (Use Best Cylinder with 7-pin small format removable core). Place this over-ride switch in the top area of the car panel. Other Facilities Management Divisions will specify their keying options in specifications.

2. Fireman Service Controls
    a. In-car Fireman Service Controls shall be in a reachable, recessed, and in a locked panel in the control panel and at the top portion of the panel.
        1) Engrave, etch, or emboss fire service instructions inside the fixture cover in accordance with ASME A17.1a.
        2) Key number shall be FEOK1 (Barrel shaped Key) for campus (CPPD) buildings. Other Facilities Management Divisions will specify their keying options in specifications if different.
3. Provide each car-operating panel with special language etched, engraved, or embossed pertaining to the posting of the Elevator Permit and the Capacity of the elevator.

C. TWO-WAY COMMUNICATIONS
1. The device shall consist of a single pushbutton, automatic dialer with appropriate indicator lights, and all other essential features necessary to comply with ADA.
2. The emergency phone shall be Ramtel model RR833-OEM and be mounted flush on the back of a hinged door at the bottom portion of the in-car control panel and locked with a barrel key #EX513.
3. The communication device shall be as manufactured by Ramtel model RR833-OEM to match the existing elevator emergency communication system including remote location indicator and other existing features now in use.
4. A stand-alone flush box-type device is not to be used without approval of the Owner.
5. The face plate shall have, including but not necessarily limited to:

EMERGENCY PHONE
UNIVERSITY OF KENTUCKY
UK logo to be included - refer to Specification 14 20 00.10.

Other information and instructions on the faceplate are as provided by the Ramtel communication device.

D. Car Accessories:
   1. Certificate Frame: Stainless steel frame glazed with clear tempered glass, and attached with tamper-proof screws.

2.11 FINISHES

A. Clear Anodized Finish: Class I, AAMA 611 AA-M12C22A41 Clear anodic coating with electrolytically deposited organic seal; not less than 0.7 mils, 0.0007 inch thick.

B. Color Anodized Finish: Class I, AAMA 611 AA-M12C22A44 Electrolytically deposited colored anodic coating not less than 0.7 mils, 0.0007 inch thick.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting this work.

B. Verify that hoistway, pit, and machine room are ready for work of this section.

C. Verify hoistway shaft and openings are of correct size and within tolerance.

D. Verify location and size of machine foundation and position of machine foundation bolts.

E. Verify that electrical power is available and of correct characteristics.

3.02 PREPARATION

A. Arrange for temporary electrical power for installation work and testing of elevator components. Comply with requirements of Section 01 50 00 - Temporary Facilities and Controls.

B. Maintain elevator pit excavation free of water.

3.03 INSTALLATION

A. Coordinate this work with installation of hoistway wall construction.

B. Install system components, and connect equipment to building utilities.

C. Provide conduit, electrical boxes, wiring, and accessories. Refer to Sections 26 05 33.13 and 26 05 83.

D. Mount machines, motors, and pumps on vibration and acoustic isolators.
   1. Place on structural supports and bearing plates.
   2. Securely fasten to building supports.
   3. Prevent lateral displacement.

E. Install hoistway, elevator equipment, and components in accordance with approved shop drawings.

F. Install guide rails to allow for expansion and contraction movement of guide rails.

G. Accurately machine and align guide rails, forming smooth joints with machined splice plates.

H. Install hoistway door sills, frames, and headers in hoistway walls; grout sills in place, set hoistway floor entrances in alignment with car openings, and align plumb with hoistway.

I. Structural Metal Surfaces: Clean surfaces of rust, oil or grease; wipe clean with solvent; prime with two coats.

J. Wood Surfaces not Exposed to Public View: Finish with one coat primer; one coat enamel.

K. Adjust equipment for smooth and quiet operation.

3.04 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Testing and inspection by regulatory agencies certified in accordance with ASME QEI-1 will be performed at their discretion.

C. Perform testing and inspection in accordance with requirements.
   1. Inspectors shall be certified in accordance with ASME QEI-1.

D. Operational Tests:
   1. Perform operational tests in the presence of Owner and Architect.
   2. At an agreed time, and the building occupied with normal building traffic, conduct tests to verify performance.
      a. Furnish event recording of each landing call registrations, time initiated, and response time throughout entire working day.
   3. Set period of time elevator takes to travel between typical floor landings at not more than ____ seconds.
      a. Measure time from moment doors start to close until car has stopped level at next floor landing and doors are opening.

3.05 ADJUSTING

A. Adjust for smooth acceleration and deceleration of car to minimize passenger discomfort.

B. Adjust with automatic floor leveling feature at each floor landing to reach 1/4 inch maximum from flush with sill.

3.06 CLEANING

A. Remove protective coverings from finished surfaces.

B. Clean surfaces and components in accordance with manufacturers written instructions.

3.07 CLOSEOUT ACTIVITIES

A. Demonstrate proper operation of equipment to Owner's designated representative.

B. Training: Train Owner's personnel on cleaning and operation and maintenance of system.
   1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
   2. Provide minimum of two hours of training.

3.08 PROTECTION

A. Do not permit construction traffic within car after cleaning.

B. Protect installed products until Date of Substantial Completion.

C. Touch-up, repair, or replace damaged products and materials before Date of Substantial Completion.

3.09 MAINTENANCE

A. Provide Initial Maintenance Contract of elevator system and components in accordance with ASME A17.1 and requirements as indicated for twelve months from Date of Substantial Completion.

B. Perform maintenance contract services using competent and qualified personnel under the supervision and direct employ of the elevator manufacturer or installer.

C. Include systematic examination, adjustment, and lubrication of elevator equipment.

D. Perform work without removing cars from use during peak traffic periods.

END OF SECTION

SECTION 22 08 00 – COMMISSIONING OF DOMESTIC HOT WATER

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commissioning process requirements for domestic hot water systems, assemblies, and equipment.

B. Related Sections include the following:
   1. Division 1 Section 019113 “Commissioning Of HVAC, HVAC Controls, Domestic Hot Water, Lighting Controls, and Security Systems” for commissioning process requirements.
   2. Division 22 Sections for plumbing equipment, systems, and control requirements.

PART 2 – PRODUCTS

2.1 Not used.

PART 3 – EXECUTION

3.1 Not used.

END OF SECTION

SECTION 23 08 00 – COMMISSIONING OF HVAC AND HVAC CONTROLS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commissioning process requirements for HVAC and HVAC Controls systems, assemblies, and equipment.

B. Related Sections include the following:
   1. Division 1 Section 019113 “Commissioning Of HVAC, HVAC Controls, Domestic Hot Water, Lighting Controls, and Security Systems” for commissioning process requirements.
   2. Division 23 Sections for HVAC equipment, systems, and control requirements.

PART 2 – PRODUCTS

2.1 Not used.

PART 3 – EXECUTION

3.1 Not used.

END OF SECTION

SECTION 26 08 00 – COMMISSIONING OF LIGHTING CONTROLS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commissioning process requirements for lighting controls and electrical systems, assemblies, and equipment.

B. Related Sections include the following:
   1. Division 1 Section 019113 “Commissioning Of HVAC, HVAC Controls, Domestic Hot Water, Lighting Controls, and Security Systems” for commissioning process requirements.
   2. Division 26 Sections for lighting and power distribution equipment, systems, and control requirements.

PART 2 – PRODUCTS

2.1 Not used.

PART 3 – EXECUTION

3.1 Not used.

END OF SECTION

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

SECTION 28 08 00 – COMMISSIONING OF SECURITY SYSTEM

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commissioning process requirements for security camera and door systems, assemblies, and equipment.

B. Related Sections include the following:
   1. Division 1 Section 019113 “Commissioning Of HVAC, HVAC Controls, Domestic Hot Water, Lighting Controls, and Security Systems” for commissioning process requirements.
   2. Division 28 Sections for security equipment, systems, and control requirements.

PART 2 – PRODUCTS

2.1 Not used.

PART 3 – EXECUTION

3.1 Not used.

END OF SECTION

SECTION 32 92 00 - STAGING, HANDLING AND INSTALLATION OF NEW TREES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Staging and Handling of New Trees.

B. SUBMITTALS
   1. See Section 32 9300 – Selection of New Trees and Shrubs.

C. QUALITY ASSURANCE
   1. Installer Qualifications:
      a. Maintenance Contractor: The contractual entity that performed the planting installation.

D. DELIVERY, STORAGE, AND HANDLING
   1. Site Preparation Prior to Plant Installation
      a. Contractor to complete all fine grading and hardscape work within project area prior to shipment of new plant materials to project site. Contractor shall notify Landcape Architect and Owner of any conditions that will prevent proper execution of work.
      b. The Contractor shall stake tree locations and notify the Landscape Architect and Owner for approval of location prior to digging pits for trees or other plant materials. The Contractor shall make adjustments as directed by Landscape Architect and/or Owner.
   2. Unloading, Handling and Staging of TREES
      a. STAGING YARD - area and systems should be prepared in advance to adequately hold trees above ground for optimum tree health prior to planting. Many times, even with the best planning and coordination, trees cannot be planted when they are delivered due to construction staging conditions.
      b. HANDLING - Use extreme caution when handling trees. Use a strap or chain cradle (adequate for weight and side of tree and rootball) attached to the root ball to unload and move trees. Strapping and wire baskets can break or loosen. Never move, lift or handle by attaching to or by putting pressure on the tree trunk. Be very careful not to damage or scar trunks and branches.
      c. UNLOADING - Prior to unloading, proper moisture should be maintained in root balls. Trucks should be staged in the shade prior to unloading. Unloading time should be no more than two hours per truck.
      d. STAND TREES UP - Immediately after unloading (no more than one hour after unloading), stand trees up using weights or CMU blocks on 4 sides of root ball. This will reduce risk of sun scald. Propertly staged trees are standing, untied and spaced. DO NOT lean trunks against fencing or other elements during storage.
      e. TRUNK PROTECTORS - Remove cardboard trunk protector within 48 hours of trees being stood upright to reduce rist of later damaged to bark and trunk.
      f. MOISTURE - Monitor moisture in the root ball by probing with a soil probe and manage supplementatl irrigation accordingly. Be careful not to over or under-irrigate.
      g. COLD - During cold weather periods, root balls must be protected from freezing temperatures.

PART 2 PRODUCTS

2.01 SOIL AMENDMENTS

A. Soil Amendments: Type and quantity as required to achieve specified results, based on soil analysis.

B. Sand: Clean and free of materials harmful to plants; 95 percent by weight, minimum, passing No.10 (sieve and 10 percent by weight, minimum, passing No.16 (sieve.

C. Decomposed Wood Derivatives: Ground bark, sawdust, humus or other green wood waste material; free of stones, sticks, and fully composted or stabilized with nitrogen.

D. Recycled Compost: Well decomposed, stable, weed free; derived from food, agricultural or industrial residuals, biosolids, yard trimmings, or source-separated or mixed solid waste; with no objectionable odors and not resembling the raw material from which it was made; no substances toxic to plants.

E. Manure: Unleached horse, chicken, or cattle manure, well rotted, containing maximum 25 percent by volume of straw, sawdust, and other bedding materials and no chemicals or ingredients harmful to plants; heat treated to kill weed seeds.

F. SELF-WATERING BAGS
   1. See 32 9300 – Selectrion of New Trees and Shrubs

G. MULCH
   1. Mulch all trees per tree installation details.

PART 3 EXECUTION

3.01 TREE PLANTING PROCEDURES

A. PERCOLATION TEST - Prior to planting, check soil drainage with a percolation test. The rate at which water drains through soil affects plants' survial and growth. Poorly-drained soil results in too much water in the root zone and a lack of needed oxygen for healthy roots. To determine percolation rate, dig a hole 1 foot deep, fill with water and see how long it takes to empty. If water level drops more slowly than 1 inch per hour, do not plant until drainage is corrected and satisfactory percolation test is completed.

B. PREPARATION - Before planting, remove any plastic wrap and any circling roots from root ball. Handle tree only by root ball and be certain your equipment - including strap and chain cradles - are rated for the weight you are lifting.

C. PLANTING HOLE WIDTH - Excavate planting hole at least two times the diameter of root ball. Root ball must be set on compacted foundation and should not settle when saturated with water.

D. PLANTING HOLE DEPTH - Excavate planting hole no deeper than 2" shallower than the rootball depth. If a hold is overexcavated, use size 57 gravel stone placed in bottom of hole, beginning at undisturbed soil, and fill up to level where bottom of rootball should rest. Do not place soil back in an over-excavated hole.

E. SOIL AND MULCH - see 2.01.

F. EQUIPMENT - Use machinery such as treehandler with side-tilt carriage forks (brands such as Lull or JLG) rated to handle weights of rootballs and trees to set root balls in planting pits. Forks should always be carefully positioned above rootball to lift rootball by strapping on top of the root ball with four pick-up points for even weight distribution. Prior to setting rootball in planting pit, forks should be adjusted so that tree is plumb. Place rootball at a level where the trunk flare will be 2" above surrounding finished grade after settling.

G. STRAIGHT AND PLUMB - Maintain tree with forks in a straight & plumb position while backfilling and watering.

H. BACKFILL/WATER - Backfill and tamp in 6" lifts until 1/2 complete. Saturate planting hole with water. After 1/2 backfill, watering and the tree is plumb, add backfill to just below top horizontal ring of the wire basket and completely saturate planting hole with water. Adjust root ball (if necessary) by adjusting forks until tree is straight and plumb, backfill is settled and rootball is stable.

I. REMOVE FORKS - After items A-H are complete and tree is straight and plumb with rootball stable and at proper depth, gently remove forks and also remove:
   1. Synthetic strap
   2. Cardboard packaging (if any)

3. Top portion of wire basket down to and including first horizontal ring
4. Burlap from top portion of rootball
5. BACKFILL/WATER - Complete backfill and thoroughly saturate with water. Repeat this step if necessary to make certain that air pockets do not exist in the backfill.
6. ACTIONS TO TAKE IF SOIL ON TOP OF ROOTBALL HAS BECOME DISTORTED
   a. If soil is bulging or distorted on the top surface of the rootball, very gently tamp the area of bulging or distorted soil as much as possible so that soil is perpendicular to trunk
   b. If soil is still bulging or distorted, very gently (with a sharp shovel or spade) cut and remove remaining bulge.
7. STAKING - Immediately after backfill has settled and tree is straight and plumb, stake tree at min. 3 locations along ground (see planting details) to provide stability until root system is thoroughly established in the backfill. Check staking as needed throughout maintenance period to make sure trunk damage does not occur. Check to confirm that tree and rootball are stable before removing staking.
8. STRAIGHTENING - If for any reason trees need straightening, trees can be straightened by carefully digging out all backfill and root ball, attaching seatbelt strap to the wire basket and lifting. Never pull, push or put pressure on the trunk. If tree roots are significantly established in the backfill, it is best for tree health to wait until dormancy to straighten trees (since roots outside of original rootball will be cut).

J. IRRIGATION
1. Irrigation: Owner's water source may be used. Do not allow plants to wilt; apply water as required to supplement rainfall; do not waste water; do not water plants or areas not needing water; do not water during rainfall; shut off water flow when finished; repair leaks.

K. TREE MAINTENANCE
1. Trees will be considered dead when main leader has died back or when 25 percent or more of crown has died.
2. Adjust stakes, guys and turnbuckles, ties, and trunk wrap as required to promote growth and avoid girdling.

L. CLOSEOUT ACTIVITIES
1. 10 days prior to end of maintenance period, submit request for final inspection.
2. Final inspection will be conducted by Owner and Landscape Architect.

END OF SECTION

GATTON STUDENT CENTER

GATTON STUDENT CENTER

FRAZEE HALL

ADMINISTRATION DRIVE

REMOVE SIGN

KEYNOTES:

1. REMOVE RAILING AND GLASS FROM WALL PRIOR TO CONSTRUCTION. REINSTALL ONCE CONSTRUCTION IN AREA HAS CEASED AND PRIOR TO OPENING AREA TO PEDESTRIAN TRAFFIC.
2. SAWCUT AT NEAREST JOINT AND REMOVE EXISTING CONCRETE.
3. REMOVE STORM INLET AND ASSOCIATED TRENCH DRAIN AND PIPING WITHIN REMOVAL LIMITS SHOWN. CONTRACTOR TO MAINTAIN CAPACITY OF STORM SEWER SYSTEM AND CONNECTIVITY DURING CONSTRUCTION.
4. REMOVE EXISTING TREES AND LANDSCAPING AS APPROVED BY THE UNIVERSITY.
5. REMOVE EXISTING LIGHT POLE AND BASE.
6. REMOVE EXISTING RAILING.
7. REMOVE EXISTING BENCH AND RETURN TO OWNER.
8. REMOVE PAVERS AND RETURN TO OWNER
9. REMOVE STAIRS. LANDINGS, WALLS, AND RAILING TO REMAIN UNLESS OTHERWISE NOTED.
10. REMOVE LOWER LEVEL STAIR ACCESS. PLUG STORM DRAIN. SEE ARCHITECTURAL/ STRUCTURAL DRAWINGS FOR DETAILS.
11. REMOVE RETAINING WALL WITHIN THE AREA NOTED. CONTRACTOR TO MODIFY REMOVAL LIMITS AS REQUIRED TO SUPPORT CONSTRUCTION OF PROPOSED SITE ELEMENTS.
12. APPROXIMATE WALL REMOVAL LIMITS. CONTRACTOR TO MODIFY EXTENTS TO SUPPORT CONSTRUCTION EFFORTS, AS NEEDED.
13. REMOVE RIVER ROCK LANDSCAPING.
14. REMOVE EXISTING SANITARY STRUCTURE AND ASSOCIATED PIPING WITHIN REMOVAL LIMITS SHOWN.
15. REMOVE HVAC CONDENSER UNITS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
16. WINDOW WELL TO BE REMOVED AND REPLACED. SEE ARCHITECTURAL/ STRUCTURAL DRAWINGS FOR DETAILS.
17. REMOVE TRASH AND RECYCLING RECEPTACLES AND RETURN TO OWNER.
18. REMOVE PAVERS AS REQUIRED FOR PEDESTRIAN BRIDGE CONSTRUCTION AND STORE FOR REINSTALLATION.
19. EXISTING WALL TO REMAIN. DO NOT DISTURB.

NOTE: " * " SUFFIX ON KEYNOTES INDICATE ITEMS INCLUDED IN THE SELECTIVE DEMOLITION PHASE.

LEGEND:

- EXIST. FENCE
- EXIST. UTILITY POLE
- PIPE REMOVAL
- WALL REMOVE LIMITS
- CONCRETE/PAVEMENT REMOVAL
- PERVIOUS PAVER REMOVAL

GENERAL CONDITIONS:

THE CONTRACT DRAWINGS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES AND SURFACE UTILITY. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL UTILITY LOCATIONS. IF FOR ANY REASON SERVICE BY ANY UTILITY IS INTERRUPTED, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

SHOULD UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT OWNER IMMEDIATELY AND GET REQUIRED APPROVALS. ANY CHANGES TO UTILITIES REQUIRING ADJUSTMENTS TO CONTRACT AMOUNT SHALL BE AUTHORIZED BY CHANGE ORDER AND AMOUNT MUST BE EQUITABLE BASED ON THE LESSER OF THE PREVAILING RATE IN THE PROJECT AREA OR THE CONTRACT UNIT PRICING.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	ADDENDUM #1	7/30/21

STRAND ASSOCIATES®
651 PERIMETER DRIVE, SUITE 220
LEXINGTON, KY 40517
(859) 224-3580
WWW.STRAND.COM

SHEET TITLE: SITE DEMOLITION

SCALE (U.N.O.): 0 10 20 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

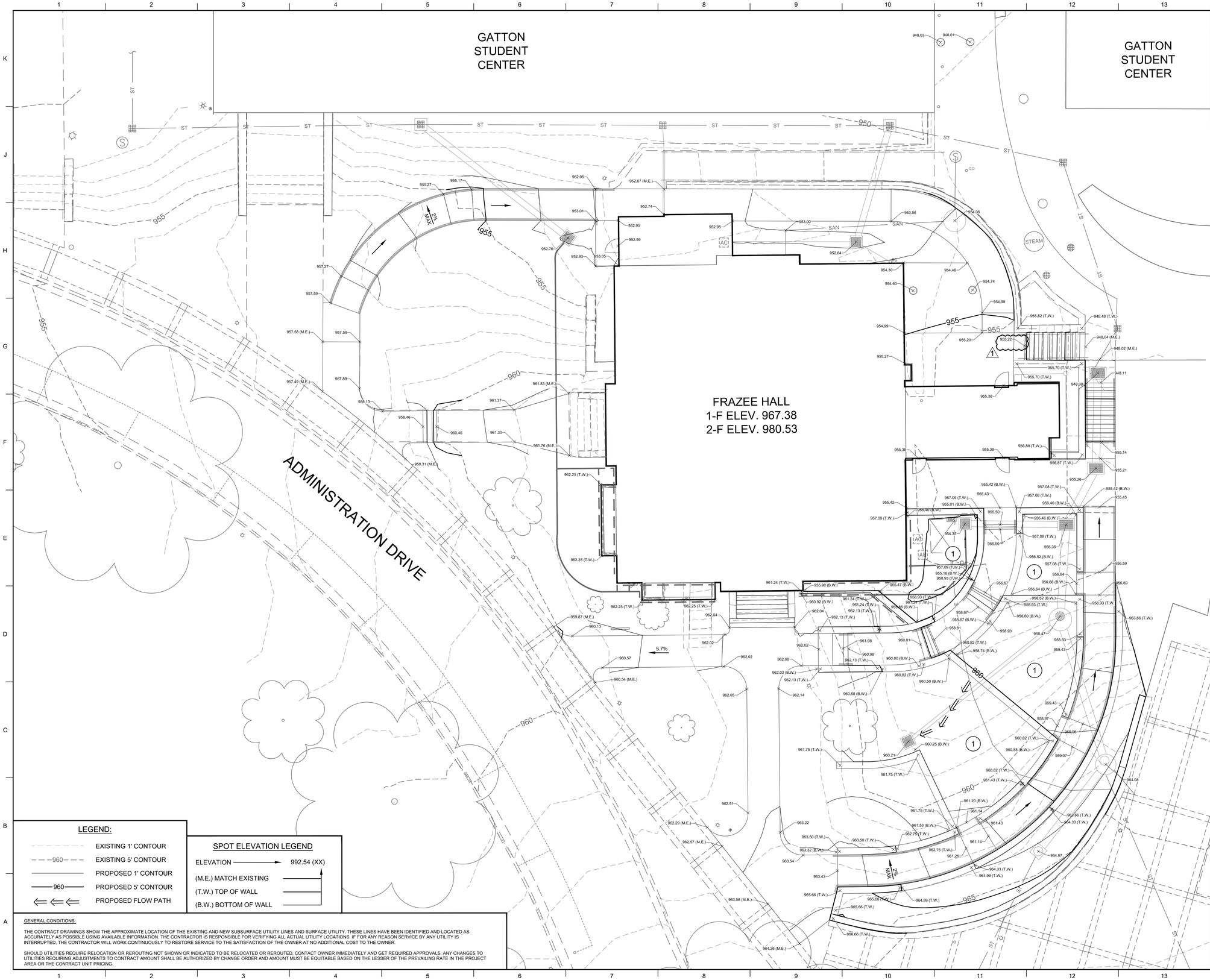
SEAL

STATE OF KENTUCKY
STEVEN BRADLEY VOGEL
32001
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: C-103



KEYNOTES:

1	GRADE AREA TO PROVIDE POSITIVE DRAINAGE AWAY FROM SEAT WALLS AND TOWARDS NEAREST STORMWATER INLET.

GENERAL NOTES:

1. ALL SLOPES 4:1 OR GREATER SHALL INCLUDE EROSION MAT FOR SLOPE PROTECTION. REFER TO SPECIFICATIONS.
2. THE CONTRACTOR SHALL COORDINATE TESTING AND INSPECTIONS OF SUBGRADE AND EMBANKMENT CONSTRUCTION WITH THE PROJECT SOILS ENGINEER.
3. PRIOR TO CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY IDENTIFIED FINISHED GRADES THAT MAY CREATE PONDING CONDITIONS.

LEGEND:

- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR (960)
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR (960)
- PROPOSED FLOW PATH

SPOT ELEVATION LEGEND

ELEVATION → 992.54 (XX)

- (M.E.) MATCH EXISTING
- (T.W.) TOP OF WALL
- (B.W.) BOTTOM OF WALL

GENERAL CONDITIONS:

THE CONTRACT DRAWINGS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES AND SURFACE UTILITY. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL UTILITY LOCATIONS. IF FOR ANY REASON SERVICE BY ANY UTILITY IS INTERRUPTED, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

SHOULD UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT OWNER IMMEDIATELY AND GET REQUIRED APPROVALS. ANY CHANGES TO UTILITIES REQUIRING ADJUSTMENTS TO CONTRACT AMOUNT SHALL BE AUTHORIZED BY CHANGE ORDER AND AMOUNT MUST BE EQUITABLE BASED ON THE LESSER OF THE PREVAILING RATE IN THE PROJECT AREA OR THE CONTRACT UNIT PRICING.

KEY PLAN

PROJECT NORTH

SEAL

STATE OF KENTUCKY
STEVEN BRADLEY VOGEL
32001
LICENSED PROFESSIONAL ENGINEER

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	ADDENDUM #1	7/30/21

STRAND ASSOCIATES®
651 PERIMETER DRIVE, SUITE 220
LEXINGTON, KY 40517
(859) 224-3689
WWW.STRAND.COM

SHEET TITLE: SITE GRADING PLAN

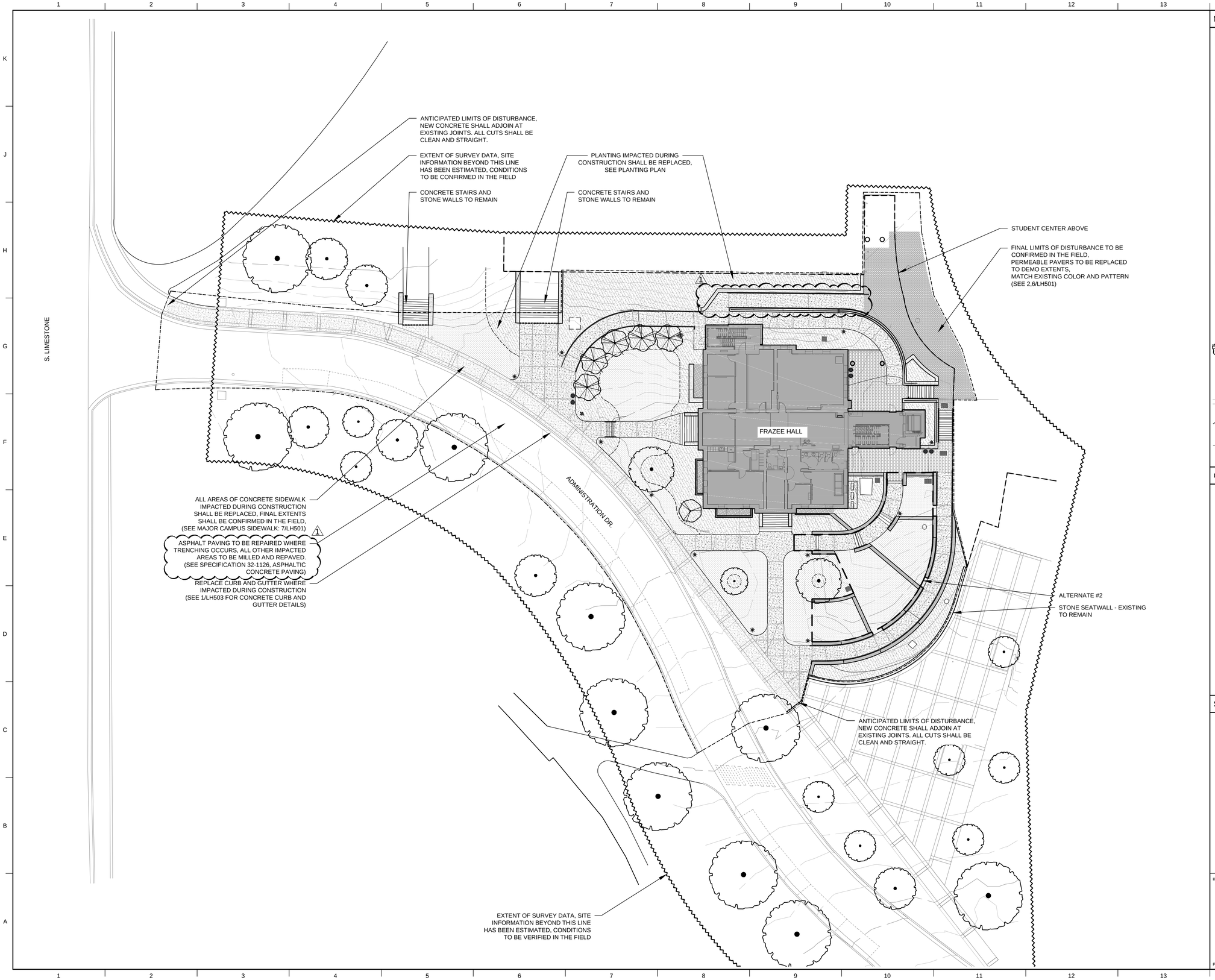
SCALE (U.N.O.): 0 10 20FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: C-105



MATERIAL KEYNOTES

- PAVERS A - PERMEABLE — 1075 SF
  UNILOCK - ECO-PRIORA
  COLOR: NATURAL
  PATTERN: RUNNING BOND
- REPLACEMENT PAVERS — TBD SF
  REPAIR/REPLACE TO MATCH EXISTING
  COLOR: MATCH
  PATTERN: MATCH
- CONCRETE PAVING (TYP.) — 4975 SF
  4000 PSI, LIGHT BROOM FINISH
  *NOTE: QTY DOES NOT INCLUDE REPLACEMENT CONCRETE OF MAJOR CAMPUS SIDEWALK
- STONE WALL W/ CAP — 65 LF
  KENTUCKY RIVER MARBLE
- STONE SEAT WALL W/O CAP — 450 LF
  KENTUCKY RIVER MARBLE
- SITE WALL - EXISTING TO REMAIN
- PLANTING BED/MULCH
  SEE PLANTING PLAN- LP101
- DECORATIVE SMOOTH RIVER ROCK
  SIZE RANGE: 3/4"-3"
  SUBMIT SAMPLE FOR APPROVAL
- GRASS/SOD
  SEE PLANTING PLAN- LP101
- TRASH/RECYCLE RECEPTACLE
  CAMPUS STANDARD: EXISTING TRASH/RECYCLE RECEPTACLE(S) TO BE STORED OFFSITE DURING CONSTRUCTION. REINSTALL UPON CONSTRUCTION COMPLETION
- POLE LIGHT
  CAMPUS STANDARD - SEE MEP FOR FINAL LOCATIONS AND SPECS
- NEW TREES
  SEE PLANTING PLAN- LP101
- EXISTING TREES TO REMAIN
- IRRIGATION SLEEVES
  SEE IRRIGATION PLAN
- SURVEY EXTENTS
- LIMITS OF DISTURBANCE (ANTICIPATED)

GENERAL NOTES

1. LIMITS OF DISTURBANCE SHALL BE CONFIRMED IN THE FIELD. ALL HARDSCAPE AND SOFTSCAPE IMPACTED SHALL BE REPLACE/REPAIRED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
2. QUANTITIES SHOWN FOR MATERIALS ARE FOR GUIDANCE ONLY, CONTRACTOR SHALL PERFORM QUANTITY TAKE-OFF.
3. SEE CIVIL AND ARCH. FOR DEMOLITION PLANS.

SHEET SPECIFIC NOTES

KEY PLAN

PROJECT NORTH

SEAL

STATE OF KENTUCKY
MATTHEW A. GRIFFEY
906
REGISTERED LANDSCAPE ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1.	Addendum #1	7/30/21

SHEET TITLE: OVERALL SITE IMPROVEMENT/ LIMITS OF DISTURBANCE PLAN

SCALE (U.N.O.): 0 20 40FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

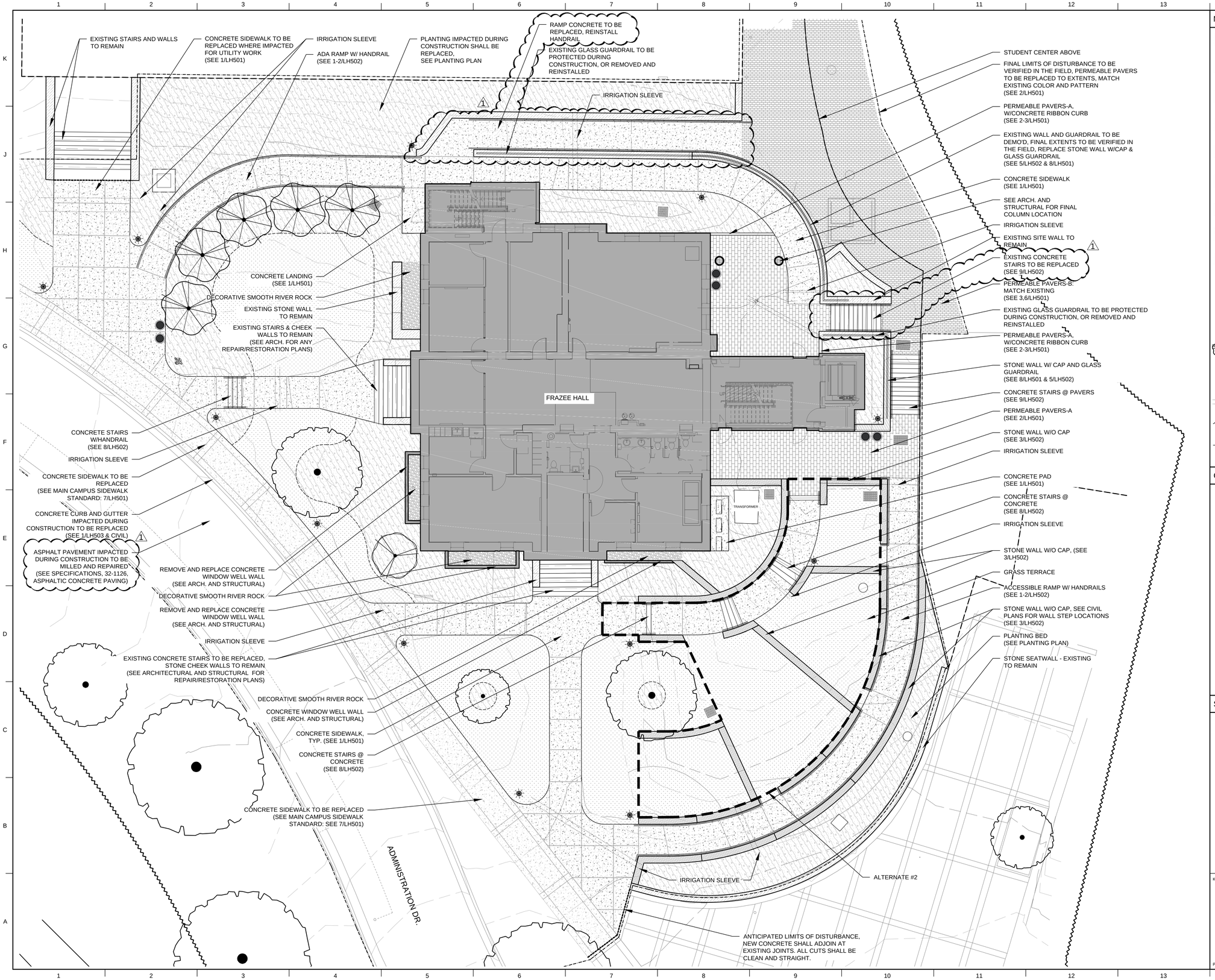
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: LH100

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
11/17/2020 2:05:04 PM



MATERIAL KEYNOTES

PAVERS A - PERMEABLE	UNILOCK - ECO-PRIORA COLOR: NATURAL PATTERN: RUNNING BOND	1075 SF
REPLACEMENT PAVERS	REPAIR/REPLACE TO MATCH EXISTING COLOR: MATCH PATTERN: MATCH	TBD SF
CONCRETE PAVING (TYP.)	4000 PSI, LIGHT BROOM FINISH *NOTE: QTY DOES NOT INCLUDE REPLACEMENT CONCRETE OF MAJOR CAMPUS SIDEWALK	4975 SF
STONE WALL W/ CAP	KENTUCKY RIVER MARBLE	65 LF
STONE SEAT WALL W/O CAP	KENTUCKY RIVER MARBLE	450 LF
SITE WALL - EXISTING TO REMAIN		
PLANTING BED/MULCH	SEE PLANTING PLAN- LP101	
DECORATIVE SMOOTH RIVER ROCK	SIZE RANGE: 3/4"-3" SUBMIT SAMPLE FOR APPROVAL	
GRASS/SOD	SEE PLANTING PLAN- LP101	
TRASH/RECYCLE RECEPTACLE	CAMPUS STANDARD: EXISTING TRASH/RECYCLE RECEPTACLE(S) TO BE STORED OFFSITE DURING CONSTRUCTION. REINSTALL UPON CONSTRUCTION COMPLETION	
POLE LIGHT	CAMPUS STANDARD - SEE MEP FOR FINAL LOCATIONS AND SPECS	
NEW TREES	SEE PLANTING PLAN- LP101	
EXISTING TREES TO REMAIN		
IRRIGATION SLEEVES	SEE IRRIGATION PLAN	
SURVEY EXTENTS		
LIMITS OF DISTURBANCE (ANTICIPATED)		

GENERAL NOTES

1. LIMITS OF DISTURBANCE SHALL BE CONFIRMED IN THE FIELD. ALL HARDSCAPE AND SOFTSCAPE IMPACTED SHALL BE REPLACE/REPAIRED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
2. QUANTITIES SHOWN FOR MATERIALS ARE FOR GUIDANCE ONLY, CONTRACTOR SHALL PERFORM QUANTITY TAKE-OFF.
3. SEE CIVIL AND ARCH. FOR DEMOLITION PLANS.
4. IRRIGATION SLEEVE LOCATIONS SHOWN FOR GENERAL GUIDANCE ONLY, REFER TO IRRIGATION DRAWINGS FOR FINAL LOCATIONS.

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1.	Addendum #1	7/30/21

SHEET TITLE: SITE PLAN

SCALE (U.N.O.): 0 10 20 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

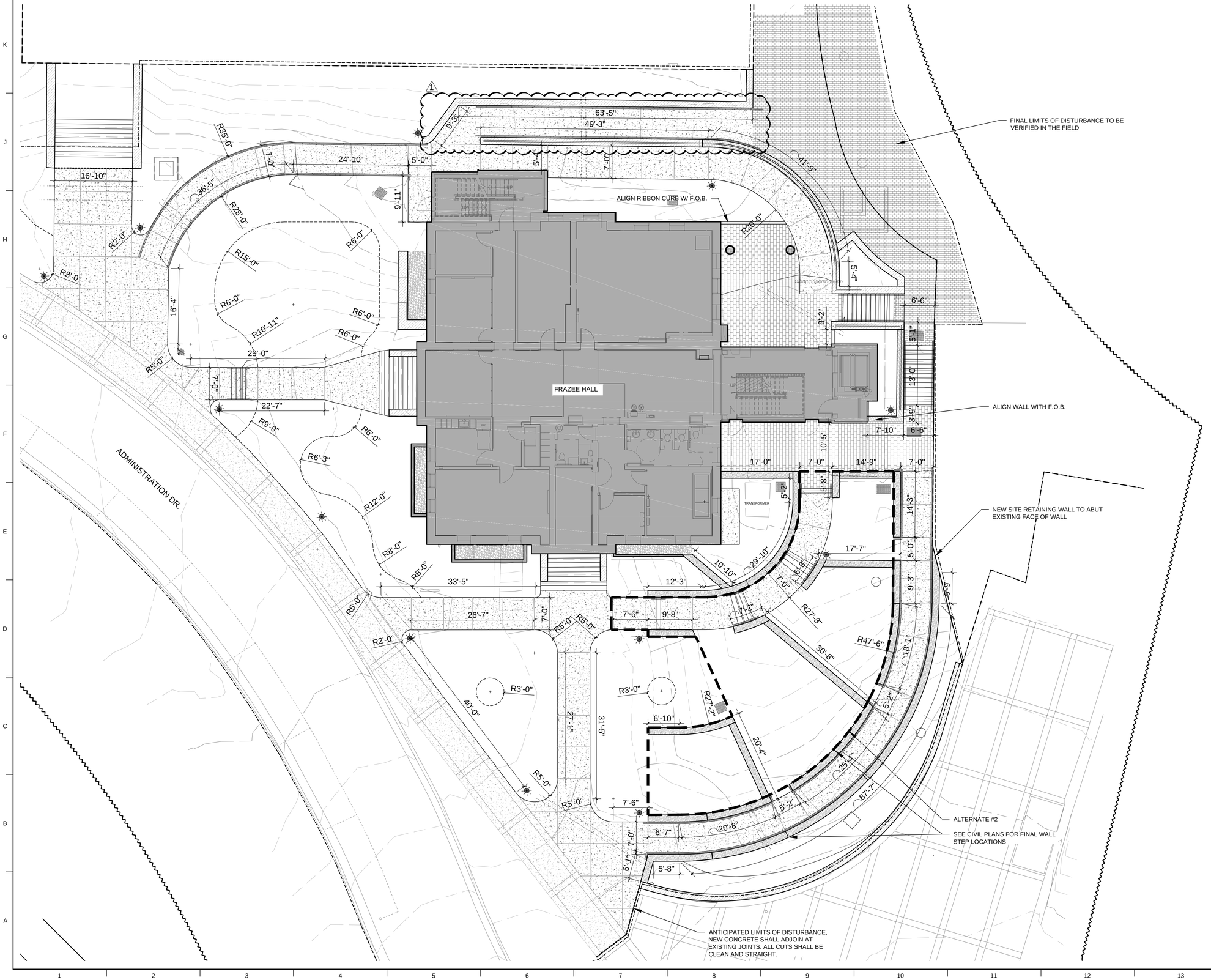
SEAL: STATE OF KENTUCKY · MATTHEW A. SHEPHERD · 906 · REGISTERED LANDSCAPE ARCHITECT

ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: LH101

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
11/17/2020 2:05:04 PM



MATERIAL KEYNOTES

- PAVERS A - PERMEABLE — 1075 SF
  UNILOCK - ECO-PRIORA
  COLOR: NATURAL
  PATTERN: RUNNING BOND
- REPLACEMENT PAVERS — TBD SF
  REPAIR/REPLACE TO MATCH EXISTING
  COLOR: MATCH
  PATTERN: MATCH
- CONCRETE PAVING (TYP.) — 4975 SF
  4000 PSI, LIGHT BROOM FINISH
  *NOTE: QTY DOES NOT INCLUDE REPLACEMENT CONCRETE OF MAJOR CAMPUS SIDEWALK
- STONE WALL W/ CAP — 65 LF
  KENTUCKY RIVER MARBLE
- STONE SEAT WALL W/O CAP — 450 LF
  KENTUCKY RIVER MARBLE
- SITE WALL - EXISTING TO REMAIN
- PLANTING BED/MULCH
  SEE PLANTING PLAN- LP101
- DECORATIVE SMOOTH RIVER ROCK
  SIZE RANGE: 3/4"-3"
  SUBMIT SAMPLE FOR APPROVAL
- GRASS/SOD
  SEE PLANTING PLAN- LP101
- TRASH/RECYCLE RECEPTACLE
  CAMPUS STANDARD: EXISTING TRASH/RECYCLE RECEPTACLE(S) TO BE STORED OFFSITE DURING CONSTRUCTION. REINSTALL UPON CONSTRUCTION COMPLETION
- POLE LIGHT
  CAMPUS STANDARD - SEE MEP FOR FINAL LOCATIONS AND SPECS
- NEW TREES
  SEE PLANTING PLAN- LP101
- EXISTING TREES TO REMAIN
- IRRIGATION SLEEVES
  SEE IRRIGATION PLAN
- SURVEY EXTENTS
- LIMITS OF DISTURBANCE (ANTICIPATED)

GENERAL NOTES

1. LIMITS OF DISTURBANCE SHALL BE CONFIRMED IN THE FIELD. ALL HARDSCAPE AND SOFTSCAPE IMPACTED SHALL BE REPLACE/REPAIRED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
2. QUANTITIES SHOWN FOR MATERIALS ARE FOR GUIDANCE ONLY. CONTRACTOR SHALL PERFORM QUANTITY TAKE-OFF.
3. SEE CIVIL AND ARCH. FOR DEMOLITION PLANS.
4. IRRIGATION SLEEVE LOCATIONS SHOWN FOR GENERAL GUIDANCE ONLY. REFER TO IRRIGATION DRAWINGS FOR FINAL LOCATIONS.

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY

REVISION:

1.	Addendum #1	7/30/21

SHEET TITLE: LAYOUT PLAN

SCALE (U.N.O.): 0 10 20 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN — PROJECT NORTH

SEAL: STATE OF KENTUCKY — MATTHEW E. PERRY — 906 — REGISTERED LANDSCAPE ARCHITECT

ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: LH201

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
11/17/2020 2:05:04 PM

GENERAL NOTES

DESIGN LOADS

STRUCTURAL RISK CATEGORY ..... CATEGORY III

AASHTO H20-44 DESIGN TRUCK LOAD (FOR MECHANICAL VAULTS)

ROAD SURCHARGE ..... 120 PSF
EARTH EQUIVALENT ..... 60 PSF

FLOOR LIVE LOAD

CATWALKS ..... 40 PSF
CORRIDORS ABOVE FIRST FLOOR ..... 80 PSF
ELEVATOR MACHINE ROOM ..... 300 PSF
LOBBIES AND FIRST FLOOR CORRIDORS ..... 100 PSF
OFFICES ..... **50 PSF
RESTROOMS ..... 60 PSF
STAIRS ..... 100 PSF
** (PLUS NON-REDUCED 15 PSF PARTITION LOAD ALLOWANCE)
(LIVE LOADS ARE REDUCED PER KBC SECTION 1607.10)

ROOF LIVE LOAD ..... 20 PSF MIN

ROOF SNOW LOAD (PER ASCE 7-10)

GROUND SNOW LOAD ..... P_g = 15 PSF
IMPORTANCE FACTOR ..... Is = 1.1
SNOW EXPOSURE FACTOR ..... Ce = 1.0
THERMAL FACTOR
(BUILDING) ..... Ct = 1.0
(CANOPIES) ..... Ct = 1.2
RAIN ON SNOW SURCHARGE ..... Pr = 5 PSF
FLAT-ROOF SNOW LOAD* (Pf = 0.7CeCtIsPg)
(BUILDING) ..... Pf = 11.6 PSF
(CANOPIES) ..... Pf = 13.9 PSF
MINIMUM-ROOF SNOW LOAD (I Pg) ..... Pm = 16.5 PSF
SLOPED-ROOF SNOW LOAD* (Ps = Cs Pf)
(BUILDING) ..... Ps = 11.6 PSF
(CANOPIES) ..... Ps = 13.9 PSF
*(INCREASE FOR DRIFTING PER ASCE 7-10, SECTIONS 7.7 & 7.8)

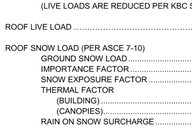
WIND LOAD (PER ASCE 7-10)

ULTIMATE DESIGN WIND SPEED ..... V_{ULT}= 120 MPH
NOMINAL DESIGN WIND SPEED ..... V_{ASD}= 93 MPH
WIND EXPOSURE ..... EXPOSURE B
ENCLOSURE ..... FULLY ENCLOSED
INTERNAL PRESSURE COEFFICIENT ..... GC_{pi} = ± 0.18
END ZONE WIDTH ..... a = 10 FT

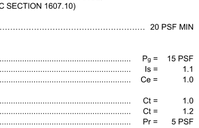
COMPONENTS & CLADDING EXTERNAL PRESSURE ULTIMATE (LRFD) LOADS (PSF)

EFFECTIVE WIND AREA (SQ FT)	LOCATION PER ASCE 7-10: (1)	(2)	(3)	(4)	(5)
≤10	9.7 -23.8	9.7 -39.9	9.7 -60.1	23.8 -25.8	23.8 -31.9
20	9.1 -23.2	9.1 -35.7	9.1 -49.8	22.7 -24.7	22.7 -29.7
50	8.3 -22.4	8.3 -30.1	8.3 -36.1	21.3 -23.3	21.3 -26.9
100	7.7 -21.8	7.7 -25.8	7.7 -25.8	20.2 -22.2	20.2 -24.7
500	↓	↓	↓	17.7 -19.8	17.7 -19.8

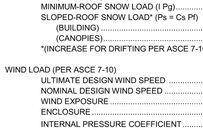
NOTES:
1. WIND LOADING PROVIDED ARE ULTIMATE (LRFD) LOADING. FOR ALLOWABLE STRESS DESIGN MULTIPLY LOADS PROVIDED BY 0.6.
2. LOADING PROVIDED IS FOR WORST CASE ROOF HEIGHT. DELEGATED DESIGNERS MAY RECALCULATE LOADS FOR SPECIFIC COMPONENT HEIGHTS USING PARAMETERS SPECIFIED.
3. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
4. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
5. FOR HIP ROOFS WITH $\theta \leq 25°$, ZONE 3 SHALL BE TREATED AS ZONE 2.
6. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
7. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.
8. INTERNAL PRESSURE FOR ENCLOSED BUILDING IS INCLUDED IN ABOVE VALUES.
9. THE NET C&C PRESSURE (INCLUDING INTERNAL PRESSURE) FOR ANY COMPONENT SHALL NOT BE TAKEN LESS THAN 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.
10. NOTATION:
    a: 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3 FT.
    h: MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES $\theta < 10°$.
    θ: ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.



NEAR - FLAT ROOF (θ ≤ 7°)



GABLE ROOF (7° < θ ≤ 45°)



HIP ROOF (7° < θ ≤ 27°)

EARTHQUAKE DESIGN DATA

COUNTY / STATE ..... FAYETTE / KENTUCKY
IMPORTANCE FACTOR ..... Ie = 1.25
MAPPED SHORT PERIOD RESPONSE ACCELERATION ..... Ss = 0.188
MAPPED 1 SECOND PERIOD RESPONSE ACCELERATION ..... S1 = 0.091
SITE CLASS ..... CLASS C
DESIGN SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT ..... Sds = 0.150
DESIGN 1 SECOND PERIOD SPECTRAL RESPONSE COEFFICIENT ..... Sd1 = 0.103
SEISMIC DESIGN CATEGORY ..... CATEGORY B
BASIC STRUCTURAL SYSTEM ..... BUILDING FRAME SYSTEM
SEISMIC RESISTING SYSTEM ..... STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
RESPONSE MODIFICATION FACTOR ..... R = 3.0
SEISMIC RESPONSE COEFFICIENT ..... Cs = 0.0625
METHOD OF ANALYSIS ..... EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC BASE SHEAR ..... = 35 KIPS

DESIGN STRESSES

CONCRETE (STRENGTH DESIGN) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS:
FOOTINGS FOR SITE WALLS ..... fc = 3,000 PSI
INTERIOR SLABS ON GRADE, PILE CAPS, GRADE BEAMS, WALLS, AND CONCRETE ON METAL DECK ..... fc = 4,000 PSI
CONCRETE EXPOSED TO FREEZE/THAW ..... fc = 5,000 PSI
MECHANICAL VAULT (WALLS, TOP, BASE, AND MANHOLE CURBS) ..... fc = 5,000 PSI
REINFORCING BARS (ASTM A615 GRADE 60) ..... fy = 60,000 PSI
WELDED WIRE FABRIC (ASTM A1064) ..... fy = 65,000 PSI
WIDE FLANGE AND TEE SHAPES DESIGNATED AS W AND WT (ASTM A992) ..... fy = 50,000 PSI
WIDE FLANGE AND TEE SHAPES DESIGNATED AS M, S, MT AND ST (ASTM A36) ..... fy = 36,000 PSI
CHANNELS, ANGLES, PLATES AND BARS (ASTM A572) ..... fy = 50,000 PSI
STEEL ROOF DECK (ASTM A653) ..... fy = 33,000 PSI
COMPOSITE STEEL FLOOR DECK (ASTM A653) ..... fy = 50,000 PSI
HOLLOW STRUCTURAL SECTIONS - RECTANGULAR STEEL TUBES (ASTM A500 GRADE C) ..... fy = 50,000 PSI
HOLLOW STRUCTURAL SECTIONS - ROUND STEEL TUBES (ASTM A500 GRADE C) ..... fy = 46,000 PSI
MASONRY ASSEMBLY COMPRESSIVE STRENGTH ..... f'm = 2,000 PSI
CONCRETE MASONRY UNIT STRENGTH ..... f'm = 2,800 PSI
TYPE S MORTAR STRENGTH ..... f'm = 1,800 PSI
MASONRY GROUT (ASTM C476) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS ..... f'm = 2,000 PSI
ROCK BEARING PRESSURE FOR FOUNDATIONS (ROCK ANCHORS ON LIMESTONE) 10,000 PSF
SOIL BEARING PRESSURE FOR SITE WALL & VAULT FOUNDATIONS (ASSUMED) ..... 2,000 PSF

DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE, 2ND EDITION (2015 IBC).
2. MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS	L/360	L/240
FLOOR MEMBERS INTERIOR	L/360	L/240
FLOOR MEMBERS SPANDREL	L/480	L/360

WHERE L = SPAN LENGTH BETWEEN CENTERLINE OF SUPPORTS (INCHES)
FOR CANTILEVERS L = TWICE THE LENGTH OF THE CANTILEVER.

3. NO PROVISION HAS BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

GENERAL

1. THE REQUIREMENTS OF THESE GENERAL NOTES APPLY UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONTRACT DOCUMENTS, ADDENDA, AND SUPPLEMENTARY INFORMATION AND DISTRIBUTING SUCH TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS, FABRICATION, AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES THAT MAY EXIST.
4. ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
5. DO NOT SCALE DRAWINGS.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND IS THEREFORE DEPENDENT UPON DIAPHRAGM ACTION OF THE ROOF DECK AND FLOOR SLAB AND ATTACHMENT TO THE SHEAR WALLS AND FRAMES FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BRACING REQUIRED TO PROPERLY CONSTRUCT THE BUILDING UNTIL THESE ELEMENTS ARE COMPLETE AND CAPABLE OF PROVIDING THIS SUPPORT.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS TO CONSTRUCT THE STRUCTURE, INCLUDING VERIFICATION OF LOAD CAPACITY OF THE STRUCTURE, NEW OR EXISTING, TO SUPPORT CONSTRUCTION ACTIVITIES, EQUIPMENT, ETC. AND FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. DAMAGE TO THE STRUCTURE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE CORRECTED BY THE RESPONSIBLE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION.
9. NON-STRUCTURAL ELEMENTS OF THE BUILDING (ARCHITECTURAL FINISHES, MASONRY VENEER AND ASSOCIATED TIES, INSULATION, SHEATHING, DUCTWORK, PIPING, FOUNDATION/FLOOR/ROOF DRAINS, ETC.) ARE TYPICALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. WHERE NON-STRUCTURAL ELEMENTS ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY ARE SHOWN FOR REFERENCE AND DESIGN INTENT ONLY. NON-STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED AS SHOWN ON THE ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS.
10. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE IDEALIZED ELEVATIONS BASED ON DECK THICKNESS AND SLOPES SHOWN ON DRAWINGS AND DO NOT ACCOUNT FOR BEAM CAMBER. IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO COORDINATE ANY CAMBER OF THEIR WORK WITH OTHER TRADES AND ADJUST ELEVATIONS AS NECESSARY TO ACCOUNT FOR DEAD LOAD DEFLECTION AND THIS CAMBER.
11. WALL OPENINGS AND TERMINATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE DIAGRAMMATIC ONLY. WALL TERMINATIONS AND OPENING JAMBS, HEADS, AND SILLS SHALL BE CONSTRUCTED AS SHOWN ON THE ARCHITECTURAL DRAWINGS. WHERE VENEER HAS JAMBS, DETAIL AND FABRICATE LINTELS TO BEAR ON SOLID STRUCTURE. DO NOT BEAR LINTELS OR BEAMS ON VENEERS (BRICKS, SIDING, ETC.). IF THE ARCHITECTURAL DRAWINGS DO NOT INCLUDE DETAILS FOR ANY OF THESE CONDITIONS, CONSULT WITH ARCHITECT FOR DIRECTION.
12. EXISTING CONSTRUCTION SHOWN IS BASED ON GENERAL CONSTRUCTION PRACTICE AND IS NOT GUARANTEED TO BE TRUE OR EXACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS RELEVANT TO HIS WORK PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ALL DISCREPANCIES INCLUDING DIMENSIONAL DEVIATIONS BEFORE PROCEEDING WITH THE WORK.
13. DETAILS LABELED TYPICAL ON THESE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR AND SHALL APPLY REGARDLESS OF WHETHER THEY ARE KEYED ON THE PLANS. CONSTRUCTION NOT SPECIFICALLY INDICATED BY DETAIL OR SECTION SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

FOUNDATION CONSTRUCTION

1. FOUNDATIONS ON THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH RECOMMENDATIONS MADE BY S&ME INC, GEOTECHNICAL ENGINEERS, IN THEIR REPORT DATED DECEMBER 1, 2020. THE GEOTECHNICAL REPORT IS PROVIDED AS REFERENCE INFORMATION AVAILABLE TO BIDDERS, BUT IS NOT PART OF THE CONTRACT DOCUMENTS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL REPORT.
2. ELEVATIONS GIVEN ARE TO THE TOP OF PILE CAPS AND GRADE BEAMS.
3. ALL PILE CAPS MUST BE SUPPORTED ON ROCK ANCHORS THAT EXTEND DOWN TO BEDROCK. SEE DETAILS ON DRAWINGS.
4. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES FOR ANY SHUT-OFF REQUIREMENTS OF STILL-ACTIVE LINES.
5. WHEN EXCAVATIONS APPROACH THE GROUND WATER LEVEL, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2'-0" BELOW THE EXCAVATION.
6. EXISTING FOUNDATIONS:
   A. EXISTING FOUNDATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT CONDITIONS MUST BE VERIFIED AT TIME OF CONSTRUCTION.
   B. WHEN NEW FOOTINGS MEET EXISTING FOOTINGS, THEY SHALL BE STEPPED AT A RATIO OF 2 HORIZONTAL TO 1 VERTICAL.
   C. UNLESS OTHERWISE NOTED, NEW FOOTINGS SHALL NOT BEAR BELOW EXISTING FOOTINGS.
7. BEFORE BACKFILL, ALL WALLS MUST BE ADEQUATELY BRACED. FOR BACKFILL REQUIREMENTS, SEE SPECIFICATIONS AND/OR GEOTECHNICAL ENGINEER'S REPORT.
8. RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL COMPRESSIVE STRENGTH TESTS DEMONSTRATE THAT THE CONCRETE HAS DEVELOPED 100% OF THE REQUIRED 28-DAY COMPRESSIVE STRENGTH FOR THE CLASS OF CONCRETE SPECIFIED. THE CONTRACTOR MAY ELECT TO PREPARE ADDITIONAL TEST CYLINDERS IN ORDER TO DEMONSTRATE THAT THE REQUIRED COMPRESSIVE STRENGTH PRIOR TO THE MANDATORY 28-DAY COMPRESSIVE STRENGTH TESTS. IN NO CASE SHALL WALLS BE BACKFILLED PRIOR TO SEVEN (7) DAYS FROM PLACEMENT.
9. FOR PLACEMENT AND COMPACTION OF FILL UNDER SLABS ON GRADE, SEE SPECIFICATIONS. IF NOT OTHERWISE NOTED, COMPACT ALL FILL TO 98% OF OPTIMUM LABORATORY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. PLACE FILL IN 6" TO 8" LAYERS AND COMPACT WITH VIBRATORY TAMPING EQUIPMENT.
10. SEE ROCK ANCHOR NOTES AND DETAILS FOR ADDITIONAL REQUIREMENTS.
11. SEE ARCHITECTURAL AND SITE DRAWINGS FOR CONTOUR AND LAYOUT OF SITE WALKS AND BREEZEWAYS. SLOPE EXTERIOR CONCRETE 1/8" / FT AWAY FROM BUILDING, UNLESS NOTED OTHERWISE.
12. HIGH PLASTICITY ("FAT") CLAYS WITH A PLASTICITY INDEX OF 30 OR MORE WHICH ARE PRESENT WITHIN 2 FEET OF FINAL SUBGRADE ELEVATION SHALL BE UNDERCUT FOR THE ENTIRE BUILDING AREA TO A DISTANCE OF 5 FEET OUTSIDE THE BUILDING FOOTPRINT. PROOFROLL AT UNDERCUT ELEVATION AND FURTHER UNDERCUT SOFT AND YIELDING MATERIALS TO FIRM MATERIAL AT THE DIRECTION OF THE SPECIAL INSPECTOR. BACKFILL UNDERCUT WITH ON-SITE LEAN CLAY SOILS OR BORROW MATERIALS WITH A PLASTICITY INDEX LESS THAN 18.
13. FOUNDATION CONCRETE FOR SOIL-BEARING FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING EXCAVATION. A LEAN CONCRETE (1,500 PSI) MUD MAT SHALL BE PLACED OVER THE PREPARED BEARING MATERIALS IF EXCAVATION MUST REMAIN OPEN DURING INCLEMENT WEATHER OR FOR MORE THAN 72 HOURS.
14. CONTRACTOR SHALL EXERCISE CAUTION THAT DENSE GRADED AGGREGATE BLANKET BELOW FLOOR SLAB DOES NOT BECOME SATURATED DURING CONSTRUCTION. CONTRACTOR SHALL CAST FLOOR SLAB OR PROVIDE TEMPORARY PROTECTION FOR SUBGRADE UNTIL SLAB IS CAST TO PREVENT WATER INFILTRATION INTO SUBGRADE.
15. SURFACE RUNOFF SHALL BE DIRECTED AWAY FROM FOUNDATION EXCAVATIONS AND NOT BE PERMITTED TO POND WITHIN THE BUILDING FOOTPRINT. PROVIDE DRAINAGE TRENCHES FROM FOUNDATION EXCAVATIONS TO DIRECT RAINWATER OUT OF EXCAVATIONS.

ROCK ANCHOR CONSTRUCTION

1. REFER TO GEOTECHNICAL REPORT PREPARED BY S&ME INC., GEOTECHNICAL ENGINEERS, DATED DECEMBER 1, 2020.
2. ALL ROCK ANCHORS SHALL BE INSTALLED FROM THE LEVEL EXISTING AFTER GENERAL EXCAVATION HAS PROGRESSED TO EXTENT REQUIRED. SEE SPECIFICATIONS FOR TOLERANCES IN ROCK ANCHOR INSTALLATION.
3. ALL ROCK ANCHORS SHALL BE INSPECTED DURING DRILLING AND PLACING OF GROUT. A COMPLETE REPORT OF EACH ROCK ANCHOR INSTALLED SHALL BE MADE. SEE PLANS AND SPECIFICATIONS FOR REQUIREMENTS OF INSPECTION AND REPORT.
4. CENTERLINES OF ALL ROCK ANCHORS SHALL BE CHECKED FOR CONFORMANCE TO SPECIFICATION. ANY DEVIATION FROM THE ACCEPTABLE INSTALLATION TOLERANCES SHALL BE REPORTED TO THE ENGINEER. ANY CORRECTIVE MEASURES REQUIRED BECAUSE OF MISALIGNMENT BEYOND THE PERMISSIBLE TOLERANCE IS THE RESPONSIBILITY OF THE ROCK ANCHOR CONTRACTOR.
5. THE LOCATION OF EXISTING SEWER AND UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO THE DRILLING OF ROCK ANCHORS. IF NEW ROCK ANCHORS AS SHOWN ON PLAN WILL ENCROACH UPON THOSE EXISTING STRUCTURES, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR DIRECTION PRIOR TO PLACING ROCK ANCHORS.
6. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFO.

CONCRETE CONSTRUCTION

1. ALL CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 301-10, ACI 318-14 AND ACI DETAILING MANUAL.
2. FURNISH BAR SUPPORTS WHERE NECESSARY DURING CONSTRUCTION.
3. PROVIDE PLASTIC, PLASTIC-COATED (NOT PLASTIC-TIPPED) OR STAINLESS STEEL CHAIRS IN ALL CONCRETE EXPOSED TO VIEW IN COMPLETED STRUCTURE.
4. PROVIDE PIPE SLEEVES AND INSERTS IN CONCRETE WORK WHERE REQUIRED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
5. CONSTRUCTION JOINTS SHALL BE POSITIONED SO AS NOT TO CHANGE THE STRUCTURAL DESIGN REQUIREMENTS. RATIO OF LENGTH TO WIDTH OF POUR SHALL NOT EXCEED 2. LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ENGINEER.
6. WELDING OF REINFORCING BARS (INCLUDING TACK WELDING) IS NOT PERMITTED.
7. PROVIDE HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS IN BEAMS AND WALLS; MINIMUM 1 1/2" DEPTH WITH HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH, UNLESS OTHERWISE SHOWN OR NOTED.
8. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 45 DEGREES. MINIMUM CHAMFER TO BE 1/2". CURVE THE LEADING EDGE OF STAIR TREADS TO 1/2" RADIUS.
9. REINFORCING FOR SLABS ON GROUND (IN FLAT SHEETS) SHALL BE IN THE MIDDLE OF THE SLAB EXCEPT AS OTHERWISE NOTED AND SHALL BE POSITIVELY SUPPORTED AND MAINTAINED IN THIS POSITION DURING PLACEMENT OF CONCRETE.
10. IN STEEL STAIR TREADS WITH CONCRETE FILL, PROVIDE 4x4-W1.4xW1.4 W.W.F. IN FLAT SHEETS.
11. USE CORROSION-INHIBITING ADMIXTURE IN ALL CONCRETE FOR MECHANICAL VAULTS, SEE SPECIFICATION.
12. BEND ALL HORIZONTAL WALL AND FOOTING BARS 1'-0" AROUND CORNERS OR PROVIDE CORNER BARS WITH 2'-0" LAP.
13. PROVIDE FOUNDATION DOWELS FOR ALL WALLS AND PIERS SAME SIZE AND SPACING AS VERTICAL STEEL.
14. PROVIDE FOUNDATION DOWELS FOR MASONRY WALLS SAME SIZE AND SPACING AS VERTICAL STEEL. ALL DOWELS SHALL BE WITHIN 8" LATERALLY OF WALL REINFORCING ABOVE AND IN LINE WITH THE WALL REINFORCING. PROVIDE DOWELS FOR ALL ADDITIONAL WALL REINFORCING AT CORNERS, ENDS, JAMBS, INTERSECTIONS AND BOTH SIDES OF CONTROL JOINTS. ONLY DOWELS AT THESE ADDITIONAL LOCATIONS MAY BE POST INSTALLED / DRILLED AND ADHESIVE FASTENED WITH EMBEDMENT AS REQUIRED TO DEVELOP FULL YIELD STRENGTH OF REINFORCING.
15. HORIZONTAL FLOORS THAT HAVE DEFLECTING STRUCTURAL MEMBERS (UNSHORED STEEL BEAMS) SHALL BE FINISHED LEVEL. THE SLAB THICKNESS NOTED IS MINIMUM. ADD CONCRETE AS NECESSARY TO OVERCOME MEMBER DEFLECTIONS.
16. SPLICES: ALL REINFORCING SPLICES SHALL BE AS TENSION LAP, U.N.O.
    A. LAP ALL TENSION SPLICES IN ACCORDANCE WITH THE FOLLOWING TABLE. MODIFY LENGTHS AS NOTED:

BAR SIZE	CONCRETE COMPRESSIVE STRENGTH 3,000 PSI	4,000 PSI	5,000 PSI
#3	21"	19"	17"
#4	29"	25"	22"
#5	36"	31"	28"
#6	43"	37"	33"
#7	62"	54"	48"
#8	71"	62"	55"
#9	80"	70"	62"
#10	90"	78"	70"
#11	100"	87"	78"

1. INCREASE SPLICE LENGTH BY THE FOLLOWING:
2. NOTE: INCREASED LENGTHS ARE ACCUMULATIVE

1. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW +30 %
2. BAR SPACING LESS THAN 2 BAR DIAMETERS +50 %

17. CONCRETE PROTECTION FOR REINFORCEMENT: COVER
    A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
    B. CONCRETE EXPOSED TO EARTH OR WEATHER
       NO. 6 THROUGH NO. 18 BARS ..... 2"
       NO. 5 BAR, W31 OR D31 WIRE AND SMALLER ..... 1 ½"
    C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
       SLABS AND WALLS
       NO. 11 BAR AND SMALLER ..... ¾"
       BEAMS AND PIERS
       PRIMARY REINFORCEMENT, TIES, STIRRUPS ..... 1 ½"

LOOSE LINTEL SCHEDULE

1. THIS SCHEDULE IS FOR LINTELS OVER MASONRY OPENINGS NOT OTHERWISE SHOWN OR NOTED ON DRAWINGS, INCLUDING NON-BEARING PARTITION WALLS AND VENEERS.
   A. ANGLES AND SUPPORT PLATES EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.
   B. MINIMUM BEARING LENGTH FOR ANGLES AND WT'S SHALL BE 6" EACH END. MINIMUM BEARING LENGTH FOR TUBES SHALL BE 8" EACH END. SEE TYPICAL DETAILS FOR BOND BEAM CONSTRUCTION.
   C. PROVIDE STEEL ANGLE LINTELS ABOVE ALL DUCT PENETRATIONS 16" AND WIDER THROUGH MASONRY WALLS.
   D. FOR MULTI-WYTHE WALL CONSTRUCTION, PROVIDE LINTEL FOR EACH WYTHE PER SCHEDULE FOR GIVEN WYTHE THICKNESS.
2. FOR 4" MASONRY WALLS PROVIDE:

SPAN LIMITS	ANGLE SIZE
0" TO 4'-0"	L3 1/2x3 1/2x5/16
4'-1" TO 5'-6"	L4x3 1/2x 5/16 L.D.V.
5'-7" TO 7'-6"	L5x3 1/2x 5/16 L.D.V.
7'-7" TO 9'-6"	L6x3 1/2x3/8 L.D.V.

GENERAL NOTES CONTINUED ON SHEET S102.

STRUCTURAL ABBREVIATIONS

APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECTURAL
B.L.E.	BRICK LEDGE ELEVATION
BOT	BOTTOM
BTWN	BETWEEN
CLR	CLEAR
CANT	CANTILEVER BEAM
C.F.S.	COLD-FORMED STEEL
C.I.P.	CAST-IN-PLACE
CJP	COMPLETE JOINT PENETRATION
C.M.U.	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
D	DEEP
D.G.A.	DENSE GRADED AGGREGATE
DET	DETAIL
DWGS	DRAWINGS
EA	EACH
E.F.	EACH FACE
ELEV	ELEVATION
EMBED	MINIMUM EMBEDMENT DEPTH INTO SUBSTRATE
E.O.S.	EDGE OF SLAB
E.W.	EACH WAY
EX	EXISTING
EXP	EXPANSION
F.F.E.	FINISHED FLOOR ELEVATION
F.R.C.	FIBER REINFORCED CONCRETE
F.R.P.	FIBER REINFORCED POLYMER
F.R.T.	FIRE RESISTANCE TREATED
F.S.	FAR SIDE
FTG	FOOTING
F.V.	FIELD VERIFY
GALV	GALVANIZED
GA	GAUGE
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
LBS	POUNDS
I.C.F.	INSULATED CONCRETE FORM
L.D.H.	LONG DIMENSION HORIZONTAL
L.D.V.	LONG DIMENSION VERTICAL
LVL	LAMINATED VENEER LUMBER
MANUF.	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL
M.E.P.	MECHANICAL/ELECTRICAL/PLUMBING
MIN	MINIMUM
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.P.H.	OPPOSITE HAND
P.A.F.	POWDER ACTUATED FASTENER
P.E.M.B.	PRE-ENGINEERED METAL BUILDING
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
R	RADIUS
REINF	REINFORCEMENT
R.T.U.	ROOF TOP UNIT (MECHANICAL)
S.C.	SLIP CRITICAL
SIM	SIMILAR
S.O.G.	SLAB ON GRADE
SP	COLUMN SPLICE
S.S.	STAINLESS STEEL
STD	STANDARD
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDE
W.W.F.	WELDED WIRE FABRIC

MATERIAL LEGEND

BEDROCK
C.M.U. "IN SECTION"
CRUSHED STONE OR DGA
BRICK "IN SECTION"
NATIVE EARTH / ENGINEERED FILL
GROUT
CONCRETE
RAISED FLOOR
FLOWABLE FILL
RECESSED FLOOR

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:
1 Addendum #1 7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: GENERAL NOTES
SCALE: (U.N.O.)

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K ALEXY
30698
LICENSED PROFESSIONAL ENGINEER

SEAL
STATE OF KENTUCKY
DANIEL JORDAN JR.
20712
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 02, 2021
JOB. NO. 20266
DWG. NO. S101

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:15 AM

GENERAL NOTES CONTINUED FROM SHEET S101.

3. FOR 8" MASONRY WALLS PROVIDE:

SPAN LIMITS	LINTEL SIZE
0" TO 6'-0"	8" BOND BEAM TYPE ML8 SEE DET B/S403 OR (2) L4x3 1/2x5/16 L.D.V.
6'-1" TO 12'-6"	16" BOND BEAM TYPE ML16 SEE DET B/S403

MASONRY WALL CONSTRUCTION

1. MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13/ASCE 5-13/TMS 402-13).
2. MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-13/ASCE 6-13/TMS 602-13) AND THE PROJECT SPECIFICATIONS. IF THERE ARE ANY CONFLICTS BETWEEN THE TWO, THE MORE RESTRICTIVE REQUIREMENT SHALL BE APPLICABLE.
3. DETERMINE COMPRESSIVE STRENGTH OF MASONRY (f'm) BY THE UNIT STRENGTH METHOD (SECTION 1.4B.2 OF ACI 530.1-13/ASCE 6-13/TMS 602-13). THE STRENGTH OF GROUT SHALL BE DETERMINED BY TESTS IN ACCORDANCE WITH ASTM C1019.
4. MATERIALS:
   - C.M.U. - ASTM C55 OR C90
   - GROUT - ASTM C476
   - MORTAR - TYPE S
5. USE TYPE S MORTAR FOR C.M.U. IN ALL WALLS.
6. INTERSECTING BEARING WALLS SHALL BE ANCHORED BY ONE OF THE FOLLOWING METHODS:
   A. FIFTY PERCENT OF THE UNITS AT THE INTERSECTION SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 3" ON THE UNIT BELOW.
   B. WALLS SHALL BE TIED BY GALVANIZED STEEL STRAPS 1 1/2" x 1/4" x 24" WITH 2" BEND AT 90° EACH END. GROUT STRAPS SOLID INTO CORES OF BLOCK AT 24" MAXIMUM VERTICAL SPACING.
   C. THE ABOVE DO NOT APPLY AT CONTROL JOINTS OR WHERE NON-LOAD-BEARING PARTITIONS ABUT BEARING WALLS.
7. CORNERS OF BEARING AND EXTERIOR WALLS SHALL BE BUILT IN RUNNING BOND.
8. ALL WALLS SHALL BE LAID IN RUNNING BOND. STACK BOND IS NOT ALLOWED.
9. PROVIDE A MINIMUM OF 16" DEPTH OF SOLID MASONRY UNDER THE BEARING ENDS OF ALL BEAMS AND 8" DEPTH OF SOLID MASONRY UNDER THE BEARING ENDS OF ALL SLABS. GROUT CELLS (2 MINIMUM) BELOW LINTEL BEARING AT JAMBS DOWN TO FOUNDATION OR BOND BEAM, WHICHEVER OCCURS FIRST.
10. PROVIDE SOLID MASONRY MORTARED INTO PLACE AROUND BEARING ENDS OF ALL BEAMS. COMPLETELY FILL BEARING POCKETS. CUT MASONRY NEATLY AT EXPOSED CONDITIONS.
11. NO CHASES, RISERS, CONDUITS, OR TOOTHING OF MASONRY SHALL OCCUR IN MASONRY WALLS WITHIN 18 INCHES OF BEAM BEARING CENTERLINE.
12. PROVIDE HORIZONTAL JOINT REINFORCEMENT PER ASTM A951, GALVANIZED, AT 16" CENTERS VERTICALLY. SEE SPECIFICATIONS. IF NOT OTHERWISE NOTED, PROVIDE A GALVANIZED LADDER TYPE JOINT REINFORCEMENT.
13. WELDING OF REINFORCING BARS (INCLUDING TACK WELDING) IS NOT PERMITTED.
14. LAP SPLICES FOR REINFORCING CENTERED IN CORES TO BE IN ACCORDANCE WITH THE FOLLOWING TABLE.

BAR SIZE	WALL THICKNESS
	8" CMU
#3	18"
#4	25"
#5	31"
#6	57"
#7	79"
#8	112"

15. SEE DETAILS AND SCHEDULES FOR LOCATIONS AND SIZES OF HORIZONTAL AND VERTICAL REINFORCEMENT.
16. PROVIDE CORNER BARS FOR ALL BOND BEAM REINFORCEMENT.
17. IN ADDITION TO SPACING INDICATED IN SCHEDULE, PROVIDE VERTICAL BARS AT ALL CORNERS, ENDS, JAMBS, INTERSECTIONS AND BOTH SIDES OF CONTROL JOINTS.
18. EXTEND ALL VERTICAL REINFORCEMENT THRU MID-HEIGHT BOND BEAMS. EXTEND VERTICAL REINFORCING INTO BOND BEAMS AT TOP OF WALL AND TERMINATE AT 2" DOWN FROM TOP OF WALL.
19. PROVIDE DOWELS FROM SUPPORTING MEMBER (PILE CAP, GRADE BEAM, OR SLAB) FOR ALL REINFORCED WALLS, SAME SIZE, LOCATION, AND SPACING AS WALL REINFORCING.
20. VERTICAL REINFORCEMENT SHALL BE CENTERED IN CELLS OF MASONRY UNIT, UNLESS OTHERWISE NOTED.
21. WHERE REQUIRED BY CONSTRUCTION GEOMETRY/DETAILING, BAR POSITIONERS SHALL BE USED TO HOLD BOND BEAM REINFORCEMENT IN PROPER ALIGNMENT.
22. BAR POSITIONERS SHALL BE USED TO HOLD VERTICAL REINFORCEMENT IN PROPER ALIGNMENT WHERE C.M.U. BLOCK IS CONSTRUCTED SUCH THAT THE GROUT POUR HEIGHT EXCEEDS 5 FEET 4 INCHES.
23. BAR POSITIONERS SHALL BE USED TO HOLD VERTICAL REINFORCEMENT IN PROPER ALIGNMENT FOR ALL C.M.U. CONSTRUCTION WHERE VERTICAL BARS ARE NOTED TO BE OFF-CENTER IN THE MASONRY CELL, REGARDLESS OF GROUT POUR HEIGHT.
24. BAR POSITIONERS ARE NOT REQUIRED WHERE GROUT POURS ARE 5 FEET 4 INCHES OR LESS WITH VERTICAL BARS CENTERED IN THE C.M.U. CELL. THE ENGINEER OF RECORD MAY REQUIRE THE USE OF BAR POSITIONERS REGARDLESS OF GROUT POUR HEIGHT IF SPECIAL INSPECTIONS AND/OR SITE OBSERVATIONS INDICATE THAT BARS ARE NOT BEING CORRECTLY POSITIONED.
25. WHERE BAR POSITIONERS ARE REQUIRED, VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 4 FEET.
26. GROUTING OF MASONRY LINTELS OVER OPENINGS SHALL BE ACCOMPLISHED IN ONE CONTINUOUS OPERATION.
27. WHERE LOW CUT WEB, OPEN CELLED C.M.U. ARE USED FOR BOND BEAMS, PROVIDE A CONTINUOUS METAL LATH GROUT RETAINER IN THE BED JOINT TO RETAIN GROUT IN CELLS.
28. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM THE MASONRY SURFACE AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
29. MAINTAIN CLEAR DISTANCE OF 1/4" MINIMUM FOR FINE GROUT OR 1/2" MINIMUM FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF MASONRY UNIT.
30. MASONRY PROTECTION FOR REINFORCEMENT: COVER = 1 ½"
31. REMOVE MORTAR PROTRUSIONS GREATER THAN 1/2" FROM CELLS BEFORE GROUTING.
32. GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT THE POUR JOINT.
33. GROUT ALL CELLS OF CONCRETE MASONRY UNITS BELOW GRADE.
34. DO NOT EXCEED THE MAXIMUM GROUT POUR HEIGHT FOR EACH GROUT TYPE AND SPACE GIVEN IN THE FOLLOWING TABLE:

GROUT TYPE	MAXIMUM GROUT POUR HEIGHT	MINIMUM WIDTH OF GROUT SPACE	MINIMUM GROUT SPACE DIMENSIONS FOR GROUTING CELLS OF HOLLOW UNITS
FINE	1'-0"	3/4"	1 1/2" x 2"
FINE	5'-4"	2"	2" x 3"
FINE	12'-8"	2 1/2"	2 1/2" x 3"
FINE	24'-0"	3"	3" x 3"
COARSE	1'-0"	1 1/2"	1 1/2" x 3"
COARSE	5'-4"	2"	2 1/2" x 3"
COARSE	12'-8"	2 1/2"	3" x 3"
COARSE	24'-0"	3"	3" x 4"

35. PLACE GROUT IN LIFTS NOT EXCEEDING 12'-8" WHERE MASONRY HAS CURED AT LEAST 4 HOURS, THE GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 INCHES, AND THERE ARE NO INTERMEDIATE REINFORCED BOND BEAMS BETWEEN THE TOP AND THE BOTTOM OF THE POUR HEIGHT. AT ALL LOCATIONS ELSEWHERE PLACE GROUT IN LIFTS NOT EXCEEDING 5'-4".
36. CONSOLIDATE GROUT POURS 12 INCH OR LESS IN HEIGHT BY MECHANICAL VIBRATION OR PUDDLING. CONSOLIDATE POURS EXCEEDING 12 INCH IN HEIGHT BY MECHANICAL VIBRATION AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
37. PROVIDE CLEANOUT HOLES AT LEAST 3 INCHES IN LEAST DIMENSION FOR GROUT POURS OVER 5 FEET IN HEIGHT.
   A. AT STRUCTURALLY REINFORCED WALLS PROVIDE CLEANOUT HOLES AT EACH STRUCTURAL VERTICAL REINFORCING BAR.
   B. AT SOLID GROUTED MASONRY, PROVIDE CLEANOUT HOLES AT NOT MORE THAN 32" ON CENTER.
   C. CLEANOUT CLOSURES SHALL BE BRACED TO RESIST GROUT PRESSURES.
   D. GROUT POURS SHALL BE PLANNED SO THAT CLEANOUT HOLES ARE CONCEALED BELOW SLAB OR BEHIND TRIM, CEILING, OR OTHER FINISHES. WHERE CLEANOUTS CANNOT BE CONCEALED, GROUT SHALL BE APPLIED IN POURS LESS THAN 5 FEET TALL TO FORGO CLEANOUTS.
38. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS.
39. PROVIDE VERTICAL CONTROL JOINT BETWEEN ALL NON-LOADBEARING PARTITIONS AND BEARING WALLS.
40. PROVIDE GALVANIZED STEEL SLEEVE / 8 GA WIRE STABILIZING ANCHORS AT 24" O.C. VERTICAL AT ALL JOINTS BETWEEN MASONRY PARTITIONS AND IN-PLACE MASONRY CONSTRUCTION (BEARING OR EXISTING WALL CONSTRUCTION). FASTEN ANCHOR TO IN-PLACE WALL W/ (2) 3/16"ø x 1 1/4" MASONRY SCREWS.
41. UNLESS OTHERWISE SHOWN OR NOTED, SPACING OF CONTROL JOINTS SHALL NOT EXCEED 25 FEET.
42. AT VERTICAL CONTROL JOINTS, BOND BEAM REINFORCEMENT AND JOINT REINFORCEMENT SHALL BE DISCONTINUOUS. PROVIDE TWO 3/4" DIAMETER SMOOTH DOWELS BY 1'-4" ACROSS EACH CONTROL JOINT AT EACH BOND BEAM. GREASE ONE END. PROVIDE 3/8" THICK FOAM POUR STOP IN HEAD JOINT OF ALL BOND BEAMS AT CONTROL JOINT TO PREVENT BINDING.
43. LAP SPLICES FOR HORIZONTAL REINFORCING SHALL BE A MINIMUM OF 40 BAR DIAMETERS.
44. DO NOT CONSTRUCT NON-LOADBEARING MASONRY TIGHT TO UNDERSIDE OF STRUCTURE. PROVIDE MINIMUM 3/4" GAP AROUND STRUCTURE AND INFILL WITH COMPRESSIBLE INSULATION/SEALANT AS REQUIRED TO MEET ARCHITECTURAL REQUIREMENTS.

STEEL CONSTRUCTION

1. STEEL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE, AND THE AWS STRUCTURAL WELDING CODE.
2. CONNECTIONS - WELDED OR HIGH-STRENGTH BOLTED:
   A. A325-SC, CLASS A, WITH HARDENED WASHERS - USE FOR ALL MOMENT CONNECTIONS, HANGERS, AND OTHER CONNECTIONS AS NOTED ON DRAWINGS.
   B. A325-N WITH HARDENED WASHERS - USE FOR ALL CONNECTIONS OTHER THAN SLIP CRITICAL CONNECTIONS.
   C. UNLESS SNUG-TIGHT CONNECTIONS ARE NOTED ON THE DRAWINGS AS BEING PERMITTED, ALL BOLTS SHALL BE TIGHTENED TO FULL PRETENSIONING LOAD.
   D. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OR WITHOUT WRITTEN PERMISSION FROM THE ENGINEER, ALL BOLTS FOR THE PROJECT SHALL BE OF ONE ASTM TYPE AND ONE DIAMETER.
   E. USE STANDARD HOLES WITH THE FOLLOWING EXCEPTIONS: OVERSIZE HOLES ARE PERMITTED WHEN BOLTS ARE LOADED IN TENSION; SHORT-SLOTTED HOLES ARE PERMITTED FOR SHEAR LOADING PERPENDICULAR TO THE SLOT IN ANY ONE PLY AT EACH FAYING SURFACE.
   F. HARDENED WASHERS SHALL BE USED OVER ALL OVERSIZED OR SHORT-SLOTTED HOLES IN AN OUTER PLY. WHERE LONG-SLOTTED HOLES ARE USED IN AN OUTER PLY, 5/16" THICK A36 PLATE WASHERS OR CONTINUOUS BAR WITH STANDARD HOLES SHALL BE PROVIDED.
   G. WHERE REACTION IS NOTED, DEVELOP SAME. WHERE NOT NOTED, FOR NON-COMPOSITE BEAMS, CONNECTIONS SHALL DEVELOP ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM.
   H. WHEREVER POSSIBLE, USE FRAMED BEAM CONNECTIONS AS LISTED IN TABLES 10-1, 10-2, 10-3,10-4, 10-9, 10-10, AND 10-11 OF THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION. THE LENGTH OF CONNECTION ANGLES AND PLATES SHALL BE NOT LESS THAN ONE-HALF OF THE T DISTANCE OF THE BEAM WEB.
   J. PREAPPROVED CONNECTION DETAILS ARE PROVIDED ON DRAWING S401.
   K. SINGLE PLATE SHEAR CONNECTIONS ARE NOT PERMITTED WHERE THE REACTION EXCEEDS 50 KIPS, AT FIELD-APPLIED CONNECTIONS, OR CONNECTIONS TO COLUMNS (OTHER THAN AT SKEWED CONNECTIONS, MOMENT CONNECTIONS, PIPE COLUMNS, TUBE COLUMNS WITH FACE DIMENSION 4" OR LESS, OR CONNECTIONS WITH REACTIONS LESS THAN 15 KIPS).
   L. THROUGH PLATE CONNECTIONS AT TUBE COLUMNS ARE NOT PERMITTED, UNLESS NOTED OTHERWISE. SHEAR CONNECTIONS TO TUBE COLUMNS SHALL BE WT OR DOUBLE ANGLE KNIFE CONNECTIONS, EXCEPT AS NOTED ABOVE.
3. WELDING ELECTRODES SHALL BE E70XX EXCEPT WHERE OTHER ELECTRODES ARE REQUIRED FOR COMPATIBILITY WITH MATERIAL BEING WELDED.
4. ALL SLIP CONNECTIONS SHALL BE PROVIDED WITH A MEANS OF PREVENTING THE NUTS FROM UNTHREADING.
5. SHOP DRAWINGS ARE REQUIRED AND SHALL NOTE TYPE OF ELECTRODES, SIZE OF ALL WELDS, AND TYPE AND SIZE OF ALL BOLTS.
6. SEE SPECIFICATIONS FOR ALL PRIMING REQUIREMENTS.
7. BEAMS BEARING ON MASONRY SHALL BEAR A MINIMUM OF 5" ONTO THE WALL, UNLESS OTHERWISE NOTED. BEAR BEAMS FULL LENGTH OF BEARING PLATES. MASONRY SHALL BE BUILT TIGHT AROUND BEAM UNLESS OTHERWISE NOTED.
8. ALL SHOP AND FIELD WELDING SHALL BE DONE BY A CERTIFIED WELDER.
9. DO NOT WELD TO EXISTING STEEL WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
10. MISCELLANEOUS STEEL MEMBERS (ANGLES, TEES, CHANNELS, ETC.) THAT SUPPORT DECK AROUND THE PERIMETER OF A FLOOR OR ROOF AREA SHALL BE CONTINUOUS, EXCEPT AT BUILDING EXPANSION JOINTS. WHERE SPLICES IN THESE MEMBERS MUST OCCUR TO FACILITATE ERECTION, PROVIDE PARTIAL PENETRATION SQUARE GROOVE WELD (BUTT JOINT) WITH 3/16" EFFECTIVE THROAT ON ONE SIDE, EACH LEG.
11. MISCELLANEOUS HANGING LOADS SUCH AS STAIR STRINGERS, PIPES, MECHANICAL UNITS, ETC., SUPPORTED BY STEEL MEMBERS SHALL HAVE THESE LOADS APPLIED IN SUCH A MANNER THAT NO TORSIONAL FORCES ARE INDUCED IN THESE MEMBERS, I.E., LOADS SHALL PASS THROUGH THE CENTERLINE OF WIDE FLANGE SECTIONS AND THROUGH THE SHEAR CENTER OF CHANNELS.

STEEL DECK CONSTRUCTION

1. STEEL DECK DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST, AWS STRUCTURAL WELDING CODE AND THE STEEL DECK INSTITUTE SPECIFICATIONS.
2. STEEL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS. STEEL FLOOR DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 2 SPANS.
3. DO NOT HANG OR SUPPORT ANY LOADS SUCH AS STUD WALLS, BULKHEADS, PIPES, ETC. FROM STEEL ROOF DECK.
4. ROOF DECK CLOSURES AND ACCESSORIES SHALL BE LOCATED IN THE FIELD OF DIAPHRAGM, NOT AT DIAPHRAGM COLLECTOR LOCATIONS SUCH AS MOMENT FRAMES OR SHEAR WALLS.

WOOD CONSTRUCTION

1. CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
2. FRAMING PLANS ARE SCHEMATIC; SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
3. WOOD STRESS GRADE FOR ALL STRUCTURAL FRAMING MEMBERS:
   - 2x4 = SPRUCE PINE FIR, STUD GRADE
   - 2x6 = SPRUCE PINE FIR, NO. 2 GRADE
   - 2x8, 2x10, 2x12 = SOUTHERN PINE, NO. 2 GRADE
4. JOIST HANGERS, SHEET METAL FRAMING CLIPS AND ANGLES, STRAPS, ETC., SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE (BASIS OF DESIGN) OR OTHER APPROVED. METAL CONNECTORS SHALL BE GALVANIZED TO G90 THICKNESS FOR UNTREATED LUMBER AND TO G185 THICKNESS FOR PRESERVATIVE TREATED LUMBER.
5. WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING, THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8" FROM EXPOSED EARTH SHALL BE OF PRESERVATIVE-TREATED WOOD.
6. BOLT HOLES IN WOOD SHALL BE 1/16" OVERSIZE. WASHERS SHALL BE USED ON ALL BEARINGS OF HEADS AND NUTS AGAINST WOOD. WASHERS SHALL BE STANDARD PLAIN WASHERS, EXCEPT AS OTHERWISE NOTED. BOLTS SHALL CONFORM TO ASTM A307. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED WHERE EXPOSED TO THE WEATHER.
7. HOLES IN WOOD SILLS OR PLATES OF SHEAR AND BEARING WALL SHALL BE PLACED IN THE CENTER OF THE PIECE AND SHALL BE NO LARGER IN DIAMETER THAN ONE-THIRD THE WIDTH OF THE SILL OR PLATE. NOTCHING WILL NOT BE ALLOWED. HOLES LARGER THAN NOTED ABOVE MAY BE BORED INTO THE SILL PROVIDING THE SILL IS CONSIDERED CUT AT THE HOLES AND ANCHOR BOLTS ARE PLACED AT EACH SIDE OF THE HOLES.
8. WOOD SILLS, UNLESS NOTED, SHALL BE ANCHORED WITH 5/8" DIAMETER x 12" LONG ANCHOR BOLTS SPACED NO GREATER THAN 48" O.C. THERE SHALL BE A MINIMUM OF TWO ANCHORS PER SILL PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12" NOR LESS THAN 4" FROM EACH END OF EACH PIECE. ALL BOLTS SHALL BE ASTM A307 WITH WASHERS.
9. DOUBLE PLATES SHALL LAP A MINIMUM OF 4'-0" AT SPLICES AND BE NAILED WITH NO LESS THAN (8) 16d NAILS EXCEPT AS OTHERWISE NOTED OR SHOWN. ALL CUTS IN PLATES SHALL OCCUR OVER A SUPPORT.
10. STUD WALLS SUPPORTING BEAMS SHALL HAVE POSTS UNDER BEARING UNLESS OTHERWISE NOTED.
11. ALL POSTS OR STUD WALLS INTERSECTING WITH CONCRETE OR MASONRY WALLS SHALL HAVE THE END STUD OR POST BOLTED WITH 1/2" DIAMETER SLEEVE ANCHORS AT 48" O.C.
12. HOLES NOT GREATER IN DIAMETER THAN 30 PERCENT OF THE STUD WIDTH MAY BE BORED INTO SINGLE-PLY WOOD STUDS PROVIDED NOT MORE THAN TWO SUCCESSIVE STUDS ARE SO BORED. BORED HOLES SHALL BE CENTERED IN STUD WIDTH WITH EDGE OF HOLE NO CLOSER THAN 1 1/4 INCHES FROM THE EDGE OF STUD.
13. BUILT-UP POSTS OF TWO PLIES OR MORE OF STUD SHALL NOT BE CUT, NOTCHED OR BORED WITH GREATER THAN A 1" DIAMETER HOLE.
14. CONTINUOUS HORIZONTAL BLOCKING IS REQUIRED AT ALL HORIZONTAL SHEATHING JOINT LOCATIONS IN SHEAR WALLS (BETWEEN HOLD-DOWNS).
15. INSTALL A MINIMUM OF TWO FULL-HEIGHT STUDS (IN ADDITIONS TO JACK STUDS) AT JAMBS OF ALL WALL OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.). INSTALL A MINIMUM OF THREE FULL-HEIGHT STUDS WHERE WIDTH OF OPENING EXCEEDS 5'-6".
16. PROVIDE HEADERS OVER ALL OPENINGS IN NONBEARING 2x4 WALLS. ADD ADDITIONAL MEMBER FOR 2x6 WALLS.

CLEAR SPAN	MEMBER SIZE
0 TO 5'-0"	(2) 2 x 6
5'-0" TO 7'-0"	(2) 2 x 8
7'-0" TO 9'-0"	(2) 2 x 10
9'-0" TO 11'-0"	(2) 2 x 12

17. SEE DRAWINGS FOR HEADERS AT BEARING WALLS.
18. CEILING JOISTS WHERE REQUIRED SHALL BE AS FOLLOWS: (NO ATTIC LIVE LOAD INCLUDED)

CLEAR SPAN	MEMBER SIZE
0 TO 8'-0"	2 x 4'S @ 16" O.C.
8'-0" TO 14'-0"	2 x 6'S @ 16" O.C.
14'-0" TO 20'-0"	2 x 8'S @ 16" O.C.

19. CUTTING / NOTCHING OF JOISTS AND BEAMS SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
20. INSTALL FLOOR JOISTS WITH CROWN EDGE UP.
21. UNDER NON-LOADBEARING PARTITIONS, INSTALL DOUBLE JOISTS SEPARATED BY SOLID BLOCKING EQUAL TO WIDTH OF STUDS ABOVE.
22. INSTALL SOLID BLOCKING @ 72" O.C. MAX IN FIRST THREE FLOOR JOIST SPACES WHERE FLOOR JOISTS SPAN PARALLEL TO WALL. CONNECT BLOCKING TO WALL TOP PLATE WITH METAL FRAMING ANGLES.
23. INSTALL BRIDGING OF TYPE INDICATED BELOW BETWEEN JOISTS WHERE NOMINAL DEPTH-TO-THICKNESS RATIO EXCEEDS 6, AT INTERVALS OF 8 FEET.
   A. DIAGONAL WOOD BRIDGING FORMED FROM BEVEL CUT NOMINAL 1-INCH BY 4-INCH LUMBER, DOUBLE-CROSSED AND NAILED BOTH ENDS TO JOISTS.
   B. SOLID WOOD BRIDGING 2 INCHES THICK BY DEPTH OF JOIST, END NAILED TO JOIST.
   C. STEEL BRIDGING INSTALLED TO COMPLY WITH BRIDGING MANUFACTURER'S DIRECTIONS.
24. TRUSS HOLD-DOWN (HURRICANE) TIES SHALL BE PLACED ON OUTSIDE OF WALL THROUGH EXTERIOR SHEATHING. AT CONTRACTOR'S OPTION, THE TIES MAY BE INSTALLED ON INTERIOR OF WALL PROVIDED AN ADDITIONAL TIE IS INSTALLED FROM WALL TOP PLATE TO EACH INTERIOR STUD (ON INTERIOR FACE OF WALL).
25. ROOF SHEATHING TO BE CONTINUOUS BENEATH ALL FALSEWORK.

EQUIPMENT SUPPORT

1. WHERE EQUIPMENT IS SUPPORTED FROM WOOD FRAMING (INCLUDING RAFTERS, JOISTS, TRUSSES, ETC.), ATTACHMENT SHALL BE MADE SUCH THAT LOAD IS BEARING ON WOOD FRAMING. NO TENSION CONNECTION SHALL BE PERMITTED.
2. AT POINT OF LOAD, INSTALL 2x BLOCKING IN DIRECTION PERPENDICULAR TO SPAN OF LOADED MEMBER.
3. APPLY LOADS TO MEMBERS THAT ARE DESIGNATED FOR ADDITIONAL LOADS AS NOTED ON DRAWINGS. NOTIFY ENGINEER IF LOADS NOTED ARE EXCEEDED, OR IF LOADS DO NOT OCCUR IN LOCATION ANTICIPATED AND AS INDICATED ON FRAMING PLANS.

SITE OBSERVATION BY THE STRUCTURAL ENGINEER

1. THE ENGINEER HAS NO CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES; FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK; FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK; OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, MATERIAL SUPPLIER, OR AGENTS THEREOF. THE ENGINEER DOES NOT GUARANTEE THE PERFORMANCE OF THE CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM ITS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR APPLICABLE LAWS, CODES, RULES, OR REGULATIONS. THE CONTRACTOR SHALL MAINTAIN SOLE RESPONSIBILITY FOR DEFECTS AND DEFICIENCIES, INCLUDING PROVIDING TESTING AND INSPECTION ONCE SUCH ARE DISCOVERED, AND FOR PROVIDING ENGINEERED CORRECTIVE ACTION FOR DESIGN TEAM REVIEW.
3. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF BROWN+KUBICAN, PSC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY, QUANTITY, OR ACCURACY OF THE CONSTRUCTION WORK, BUT RATHER PERIODIC IN EFFORT TO INFORM THE CLIENT ABOUT GENERAL PROGRESS AND TO ADVISE THE CLIENT ABOUT OBSERVED DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

DEMOLITION AND RECONSTRUCTION NOTES

1. WHERE EXISTING SLAB ON GRADE IS TO BE PARTIALLY REMOVED FOR PLUMBING, UTILITIES, NEW FOOTINGS, ETC., SAWCUT PERIMETER OF SLAB REMOVAL. PLACE NEW VAPOR RETARDER WITHIN EXTENT OF SLAB REMOVAL. DOWEL NEW SLAB TO EXISTING W/ 1/2"ø x 18" SMOOTH RODS DRILLED 6" INTO EXISTING SLAB AT MID-DEPTH, SEE DETAIL A/S301. SAWCUT CONTRACTION JOINTS IN REPLACEMENT SLABS THAT EXCEED 400 SQ FT IN SIZE. IF EXISTING SLAB ON GRADE TO BE REMOVED IS NEXT TO EXISTING MASONRY WALL, SAWCUT PERIMETER OF SLAB REMOVAL CAREFULLY TO AVOID DAMAGING EXISTING MASONRY WALL.
2. EXTENT OF SLAB REPLACEMENT FOR INSTALLATION OF NEW UTILITIES, ETC. NOT SHOWN. CONTRACTOR TO COORDINATE SUCH WORK W/ SUBCONTRACTORS DURING BID.
3. AT NEW OPENINGS IN MASONRY WALLS THAT EXTEND DOWN TO FLOOR, REMOVE MASONRY TO 8" MINIMUM BELOW FINISHED FLOOR AND INFILL W/ NEW FLOOR SLAB.
4. WHERE EXISTING CONCRETE SLAB ON GRADE IS REMOVED AND REPLACED, LEVEL AND FILL EXISTING SUBGRADE WITH NEW CRUSHED STONE AS REQUIRED FOR PREPARATION OF NEW SLAB.
5. WHERE NEW OPENINGS IN EXISTING MASONRY WALLS OVERLAP WITH EXISTING OPENINGS AND LINTELS, CONTRACTOR SHALL SHORE EXISTING ROOF STRUCTURE AND WALL CONSTRUCTION, REMOVE EXISTING LINTEL TO ALLOW SPECIFIED BEARING FOR NEW LINTEL AND PATCH WALL CONSTRUCTION TO MATCH EXISTING.
6. PROCESS TO INSTALL STEEL LINTEL IN EXISTING MASONRY WALL:
   A. SHORE EXISTING WALL AT THE DIRECTION OF CONTRACTOR-EMPLOYED SHORING ENGINEER.
   B. SAWCUT POCKET IN EXISTING MASONRY FOR STEEL LINTEL. DO NOT OVERCUT CORNERS. GROUT CORES BELOW LINTEL BEARING SOLID DOWN TO FOUNDATION.
   C. INSTALL STEEL LINTEL TIGHTLY INTO POCKET. INFILL LINTEL POCKET W/ SOLID MASONRY.
   D. SAWCUT WINDOW / DOOR OPENING IN EXISTING MASONRY WALL BENEATH THE LINTEL. DO NOT OVERCUT CORNERS.
   E. TOOTH IN NEW MASONRY AT JAMBS AS REQUIRED.
7. REPAIR OF ANY DAMAGE CAUSED TO THE BUILDING DURING DEMOLITION AND CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE:
THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DESIGNING, SUPPLYING, AND INSTALLING ALL TEMPORARY SHORING NECESSARY TO INSTALL NEW STRUCTURAL ELEMENTS. THE DESIGN OF THE SHORING SHALL BE DONE BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF KENTUCKY. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT (FOR THEIR RECORDS) TEMPORARY SHORING DRAWINGS (PLANS AND ANY NECESSARY DETAILS) THAT ARE SEALED, SIGNED AND DATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

SHORING / BRACING DESIGN AND INSTALLATION

1. THE GENERAL TRADES CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENGINEERING, SUPPLYING, AND INSTALLING ALL TEMPORARY SHORING AND BRACING NECESSARY TO RESIST GRAVITY AND LATERAL LOADS AS THE EXISTING BUILDING IS SELECTIVELY DEMOLISHED AND RECONSTRUCTED WITH NEW STRUCTURAL ELEMENTS. THE DESIGN OF SHORING SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KENTUCKY IN CONSIDERATION OF APPLIED, POTENTIAL AND CONSTRUCTION LOADING; CONSTRUCTION METHODS, TECHNIQUES AND SEQUENCE; AND SCHEDULE. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT (FOR THEIR RECORDS) TEMPORARY SHORING DRAWINGS (PLANS AND ALL NECESSARY DETAILS) THAT ARE SEALED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. SHORING SUBMITTAL SHALL ALSO INCLUDE A WRITTEN DESCRIPTION OF THE INTENDED CONSTRUCTION SEQUENCE, PREPARED BY THE SHORING ENGINEER AND REVIEWED AND APPROVED BY THE CONSTRUCTION MANAGER PRIOR TO SUBMITTAL TO THE ARCHITECT FOR THEIR RECORDS. SHORING SUBMITTAL SHALL INCLUDE WRITTEN DESCRIPTION OF LOADS AND LOAD COMBINATIONS CONSIDERED.
2. SUGGESTED SHORING DETAILS HAVE BEEN INCORPORATED INTO THE CONSTRUCTION DOCUMENTS IN SOME INSTANCES. WHERE PROVIDED, THEY SHALL BE CONSTRUED AS SUGGESTIONS ONLY WHEREIN IF SUCH SCHEME IS USED, THE DESIGN AND DETAILS MUST STILL BE VERIFIED BY (AND FULL RESPONSIBILITY TAKEN) BY THE SHORING ENGINEER.
3. SHORING AND BRACING IS REQUIRED, BUT IS NOT LIMITED TO, THE FOLLOWING:
   A. WHERE DEMOLITION OF FLOOR AND / OR ROOF MEMBERS REMOVE LATERAL BRACING TO WALL, COLUMN, OR PIER MEMBERS.
   B. WHERE NEW OPENINGS IN WALLS MUST BE CREATED.
   C. WHERE DEMOLITION OF BEARING WALLS AND / OR SUPPORT BEAMS REMOVE VERTICAL SUPPORT TO GRAVITY LOAD MEMBERS.
   D. WHERE DEMOLITION OF SHEAR WALLS, BRACED FRAMES, OR OTHER LATERAL LOAD RESISTING SYSTEM REMOVES BUILDING RESISTANCE TO LATERAL WIND, SEISMIC, OR EARTH LOADS.
4. CEASE DEMOLITION OPERATIONS AND NOTIFY ARCHITECT IF ANY EXISTING STRUCTURAL ELEMENT TO REMAIN IN SERVICE DEVELOPS CRACK, BOW, DEFLECTION, ETC. OR IF ANY COMPONENT OF THE EXISTING STRUCTURE APPEARS DAMAGED, CORRODED OR OTHERWISE COMPROMISED.

ROOF, FLOOR, OR WALL OPENINGS

1. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR MECHANICAL OR ELECTRICAL ITEMS.
2. SLEEVES AND OPENINGS SHALL BE LOCATED IN A MANNER THAT WILL MAINTAIN THE STRUCTURAL INTEGRITY OF THE ROOF, FLOOR, OR WALL SYSTEM.
3. NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

OPENINGS / PENETRATIONS / ATTACHMENTS TO STRUCTURE BY OTHER TRADES
1. THE CONTRACTOR SHALL COORDINATE AND VERIFY THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR OTHER TRADES IN STRUCTURAL ELEMENTS.

TO GRADE BEAM FOUNDATIONS
1. HORIZONTAL PENETRATIONS SHALL OCCUR IN MIDDLE THIRD OF MEMBER DEPTH AND MIDDLE THIRD OF SPAN. MAXIMUM SIZE TO BE 6".
2. VERTICAL PENETRATIONS LARGER THAN 2" ARE PROHIBITED.
3. PENETRATIONS MAY NOT INTERRUPT OR CUT THROUGH REINFORCING.

TO STRUCTURAL STEEL
1. FIELD CUTTING/DRILLING OF HOLES LARGER THAN 3/8" INTO BEAM FLANGES OR COLUMNS IS PROHIBITED EXCEPT WHERE REQUIRED FOR STRUCTURAL STEEL CONNECTIONS.
2. PENETRATIONS / HOLES THROUGH BEAM WEBS MAY BE POSSIBLE. TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING COST TO VERIFY ADEQUACY AND DESIGN AND FOR INSTALLATION COST OF OPENING AND ANY REINFORCEMENT.

TO FLOOR DECK, ROOF DECK
1. NO PENETRATIONS LARGER THAN 12" IN DIAMETER / SQUARE SHALL BE FIELD CUT IN THE STRUCTURAL MEMBER WITHOUT APPROVAL OF THE ENGINEER OF RECORD FOR THAT ELEMENT.
2. CUTTING / CORING OF ADJACENT PENETRATIONS, PERPENDICULAR TO THE STRUCTURAL SPAN, SHALL BE AVOIDED. ADJACENT PENETRATIONS THAT REMOVE MORE THAN 20% OF SUCH STRUCTURAL ELEMENT, IN ANY GIVEN 3-FOOT LENGTH, ARE PROHIBITED.

RENOVATION AND REUSE OF EXISTING STRUCTURES
1. THE OWNER SHALL UNDERSTAND THAT EXISTING STRUCTURES MAY HAVE BEEN CONSTRUCTED PRIOR TO BUILDING CODE ADOPTION, TO A PREVIOUS CODE EDITION, OR NONCOMPLIANT TO CODE AND THAT THE ENGINEER SHALL NOT BE RESPONSIBLE FOR DISCOVERY OF CONSTRUCTION TECHNIQUES, CONDITION, OR ADEQUACY OF EXISTING STRUCTURE TO REMAIN STRUCTURALLY UNMODIFIED AS PART OF THIS WORK.
2. IN ELECTING TO REUSE AN EXISTING STRUCTURE THE OWNER SHALL REMAIN SOLELY RESPONSIBLE FOR THE CONDITION AND ADEQUACY OF THE EXISTING STRUCTURE, EXCEPT WHERE MODIFIED BY THE CONSTRUCTION PROJECT.
3. DISCOVERY OF AND PROVISION FOR DEFERRED MAINTENANCE AND REPAIR OF THE STRUCTURE ARE NOT INCLUDED IN THE SCOPE OF THE ENGINEER OR CONSTRUCTION DOCUMENTS EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
4. IN KEEPING WITH CURRENT CODE PROVISIONS, EXISTING LOAD-CARRYING STRUCTURAL ELEMENTS MAY HAVE NOT BEEN STRENGTHENED, SUPPLEMENTED, REPLACED, OR OTHERWISE ALTERED IF CALCULATIONS SHOWED:
   a. NO MORE THAN 5% INCREASE IN DESIGN GRAVITY LOAD APPLIED TO THAT EXISTING STRUCTURAL ELEMENT AS A RESULT OF THE INTENDED ALTERATIONS.
   b. NO MORE THAN 10% INCREASE IN DEMAND-CAPACITY RATIO OF AN EXISTING LATERAL LOAD-CARRYING ELEMENT OR ALTERATION RESULTING IN A STRUCTURAL IRREGULARITY.

EXISTING STRUCTURE REFERENCE AND BUILDING LAYOUT NOTES:

1. IT IS THE DESIGN INTENT FOR THE FINISHED TOP SURFACE OF THE NEW FLOORS TO ALIGN WITH THE NEW FINISHED TOP SURFACE OF THE ADJACENT EXISTING FLOOR. FLOOR ELEVATIONS SHOWN ON THE DRAWING SET ARE APPROXIMATE. **THE STRUCTURAL STEEL CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO FIELD MEASURE EXISTING FLOOR ELEVATIONS.** FIELD VERIFIED DIMENSIONS/MEASUREMENTS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW. NEW STORY HEIGHTS LABELED ON THE DRAWING SET SHALL BE ADJUSTED AS REQUIRED TO COMPLY WITH THE FIELD-VERIFIED MEASUREMENTS AND STATED DESIGN INTENT.
2. IT IS THE DESIGN INTENT FOR ADDITIONS TO THE EXISTING FRAZEE STRUCTURE TO BE CONSTRUCTED IN A MANNER THAT IS ORTHOGONAL TO THE EXISTING FRAZEE BUILDING, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. SEE PLANS AND SECTIONS FOR ADDITIONAL LAYOUT AND FIELD MEASUREMENT REQUIREMENTS.
3. WHERE QUESTIONS REGARDING LAYOUT OCCUR, SUBMIT REQUEST FOR INFORMATION (RFI) TO ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF ELEMENTS IN QUESTION.

LORD AECK SARGENT
A KATERRA COMPANY

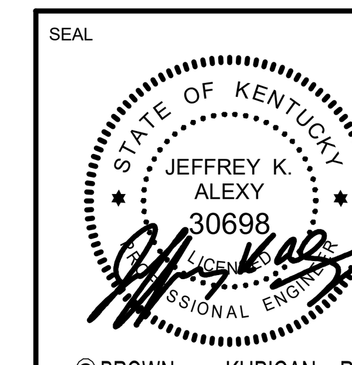
REVISION:

1	Addendum #1	7/30/21

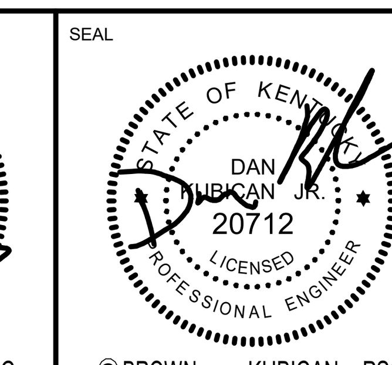
BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: GENERAL NOTES
SCALE (U.N.O.)

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL


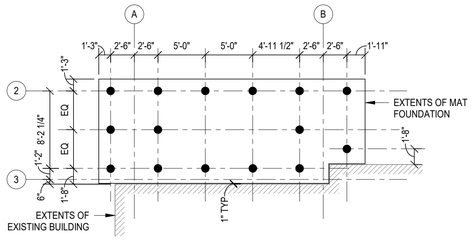
©BROWN + KUBICAN, PSC

SEAL


©BROWN + KUBICAN, PSC

ISSUE DATE: July 02, 2021
JOB. NO.: 20266
DWG. NO.: S102

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:18 AM



STAIR B PILE FOUNDATION PLAN

B / S200

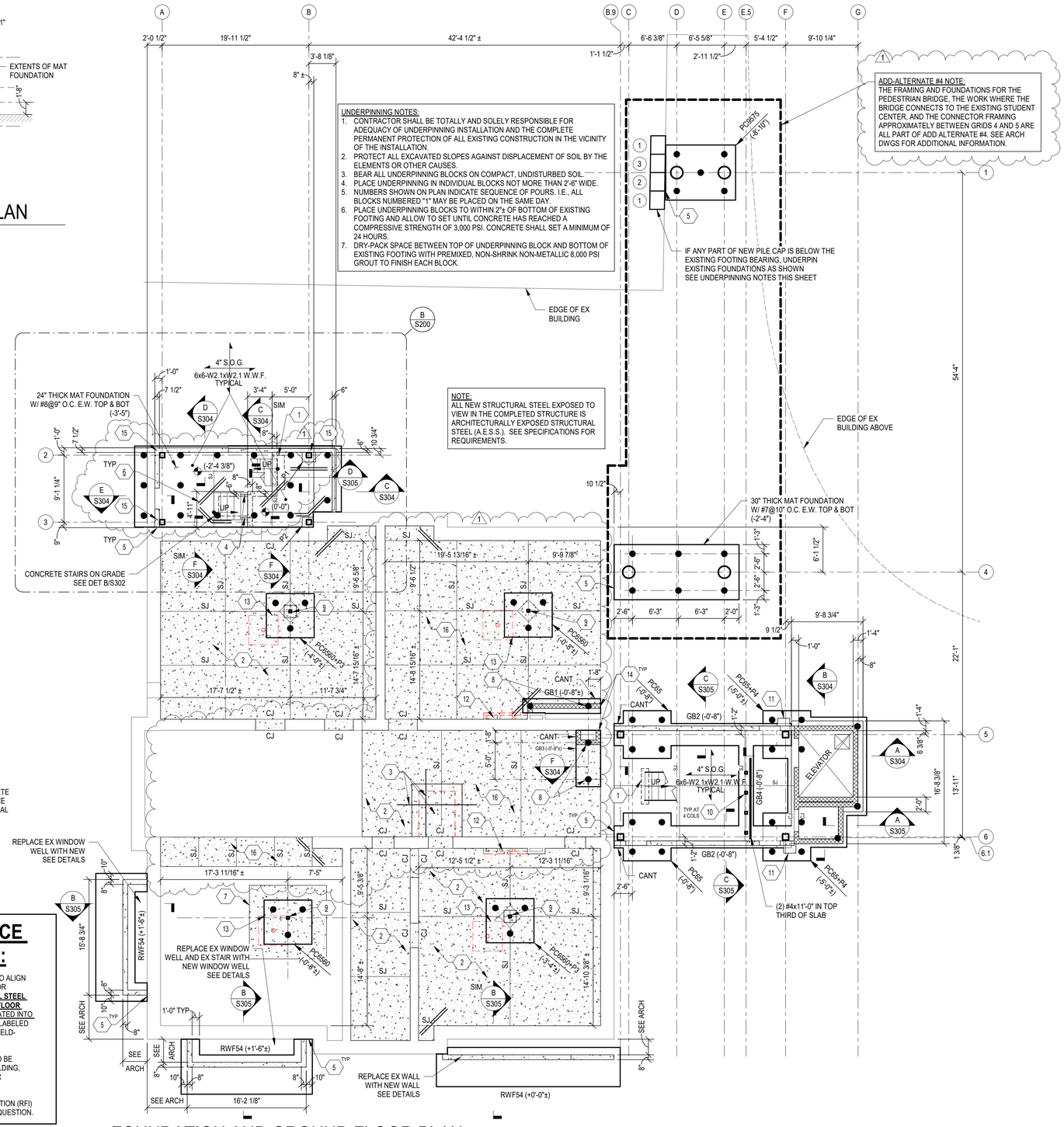
1/8" = 1'-0"

TAG NOTES

1. THICKENED SLAB BELOW STAIR. SEE DET E/S301 .
2. AT ALL EXISTING CRAWL SPACES, EXCEPT FOR THE UTILITY TUNNELS, DEMO EXISTING GROUND FLOOR FRAMING, FILL VOID SPACE W/ COMPACTED D.G.A., AND PLACE NEW 5" CONCRETE SLAB ON VAPOR RETARDER ON D.G.A. REINFORCE SLAB W/ 6x6-W2.1xW2.1 W.W.F.
3. FILL ELEVATOR PIT BELOW WITH CRUSHED STONE. ADD ADDITIONAL #4@12" O.C. EACH WAY AT MID-DEPTH OF SLAB. EXTEND 2'-0" MIN PAST EDGE OF EX ELEVATOR WALL.
4. INSTALL INTERSECTING WALL DOWELS PER F/S301 AT SIDE WALLS OF CAST-IN-PLACE CONCRETE STAIR.
5. INSTALL 1" THICK COMPRESSIBLE FOAM BOARD BETWEEN NEW CONCRETE FOUNDATION AND EXISTING WALL TO ISOLATE NEW FROM EXISTING.
6. RE-ENTRANT CORNER BARS PER B/S301.
7. AT EX SLABS ON GRADE, SAWCUT EX SLAB AS REQUIRED TO INSTALL NEW FRAMING AND FOUNDATIONS AND REPLACE WITH NEW 5" CONCRETE SLAB ON NEW VAPOR RETARDER ON EX SUBBASE. REINFORCE SLAB W/ 6x6-W2.1xW2.1 W.W.F. DOWEL NEW SLAB TO EX SLAB PER TYPICAL DETAILS.
8. EXTEND PILES 6" INTO BOTTOM OF FOUNDATION.
9. HSS4x4x1/2 COLUMN W/ BASE PL 3/4x12x12 (TYPE D) & (4) 3/4"ø ANCHOR RODS. SEE DET A/S501. SEE DET C/S501 FOR COLUMN SPLICE DETAIL.
10. HSS4x4x3/8 COLUMN W/ BASE PL 3/4x12x12 (TYPE D) & (4) 3/4"ø ANCHOR RODS. SEE DET A/S501. COORDINATE LOCATION OF COLUMN W/ ARCH STAIR LAYOUT. WRAP COLUMN BASE W/ 1/2" EXPANSION JOINT FOR FULL THICKNESS OF SLAB ON GRADE.
11. P3 CONCRETE PIER BELOW NEW BOLLARD. SEE ARCH DWGS FOR BOLLARD LOCATIONS AND DETAILS.
12. NEW SLAB ON GRADE AT DEMOLISHED WALL LOCATIONS.
13. ONCE FULL-HEIGHT SHORING IS INSTALLED, DEMO EX FOOTING AS REQUIRED TO INSTALL NEW FOUNDATION.
14. PROVIDE GALVANIZED STEEL SLEEVE / 8 GA WIRE STABILIZING ANCHORS AT 24" O.C. VERTICAL AT ALL JOINTS BETWEEN NEW C.M.U. WALLS AND EX MASONRY WALLS FOR FULL HEIGHT OF WALL. FASTEN ANCHOR TO EX WALL W/ (2) 3/16"ø x 1 1/4" MASONRY SCREWS.
15. BLOCK OUT PORTION OF STEM WALL FOR COLUMN INSTALLATION. PLACE THIS CONCRETE LATER WITH THE SLAB BLOCKOUT.
16. REMOVE AND REPLACE EXISTING SLAB ON GRADE WITH NEW 5" CONCRETE SLAB ON GRADE ON NEW VAPOR RETARDER ON EX SUBBASE. REINFORCE SLAB W/ 6x6-W2.1xW2.1 W.W.F. DOWEL NEW SLAB TO EX SLAB PER TYPICAL DETAILS. COORDINATE EXTENTS OF SLAB REMOVAL WITH ARCH DWGS.

EXISTING STRUCTURE REFERENCE AND BUILDING LAYOUT NOTES:

1. IT IS THE DESIGN INTENT FOR THE FINISHED TOP SURFACE OF THE NEW FLOORS TO ALIGN WITH THE NEW FINISHED TOP SURFACE OF THE ADJACENT EXISTING FLOOR. FLOOR ELEVATIONS SHOWN ON THE DRAWING SET ARE APPROXIMATE. **THE STRUCTURAL STEEL CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO FIELD MEASURE EXISTING FLOOR ELEVATIONS.** FIELD VERIFIED DIMENSIONS/MEASUREMENTS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW. NEW STORY HEIGHTS LABELED ON THE DRAWING SET SHALL BE ADJUSTED AS REQUIRED TO COMPLY WITH THE FIELD-VERIFIED MEASUREMENTS AND STATED DESIGN INTENT.
2. IT IS THE DESIGN INTENT FOR ADDITIONS TO THE EXISTING FRAZEE STRUCTURE TO BE CONSTRUCTED IN A MANNER THAT IS ORTHOGONAL TO THE EXISTING FRAZEE BUILDING, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. SEE PLANS AND SECTIONS FOR ADDITIONAL LAYOUT AND FIELD MEASUREMENT REQUIREMENTS.
3. WHERE QUESTIONS REGARDING LAYOUT OCCUR, SUBMIT REQUEST FOR INFORMATION (RFI) TO ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF ELEMENTS IN QUESTION.



FOUNDATION AND GROUND FLOOR PLAN

A / S200

1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF THE FOUNDATION AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. CENTER ALL WALL FOOTINGS ON WALL CENTERLINE U.N.O.
3. CENTER ALL SPREAD FOOTINGS ON COLUMN GRID INTERSECTION U.N.O.
4. SEE DWGS S101 & S102 FOR GENERAL NOTES.
5. SEE DWGS S301, S302, & S303 FOR TYPICAL FOUNDATION DETAILS.
6. SEE DWG S501 FOR COLUMN SCHEDULE.
7. SLAB ON GRADE SHALL BE PLACED ON VAPOR RETARDER (SEE SPECIFICATIONS) OVER 4" MINIMUM COMPACTED CRUSHED STONE OR DENSE GRADED AGGREGATE.
8. REINFORCE SLABS ON GRADE AT RE-ENTRANT CORNERS PER DETAIL B/S301. REINFORCING BARS MAY NOT BE SHOWN GRAPHICALLY ON PLAN IN ALL LOCATIONS.
9. ALL PILE CAPS SHALL BE SUPPORTED ON DEEP FOUNDATION PILES THAT EXTEND DOWN TO AND BEAR ON BEDROCK. SEE DETAILS ON S303.
10. AT EXISTING SLAB ON GRADE REPLACEMENT, INSTALL NEW CONCRETE SLAB ON NEW VAPOR RETARDER. SEAL NEW VAPOR RETARDER TO EXISTING VAPOR RETARDER WHERE ONE OCCURS. WHERE EXISTING VAPOR RETARDER DOES NOT EXIST, SEAL NEW VAPOR RETARDER TO EXISTING CONCRETE SLAB.

FOUNDATION LEGEND

PC65	= PILE CAP. SEE DETAIL C/S303.
RWF40	= RETAINING WALL FOOTING. SEE SECTIONS.
GB1	= GRADE BEAM. SEE SCHEDULE ON S303.
P1	= COLUMN PIER. SEE DETAIL E/S303.
(-0'-8")	= TOP OF FOUNDATION ELEVATION.
SJ	= SAWN CONTRACTION JOINT. SEE DETAIL A/S301.
CJ	= CONSTRUCTION JOINT. SEE DETAIL A/S301.
●	= DRIVEN PILE BEARING ON BEDROCK DESIGNED FOR ALLOWABLE 40-KIP COMPRESSION LOAD AND 2-KIP SHEAR LOAD.
	= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
	= CONCRETE WALL.
PC65 (TOP ELEV.)	= PILE CAP MARKER. SEE DETAIL C/S303.

PROJECT NORTH

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

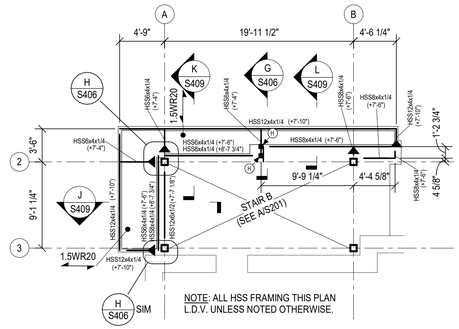
SHEET TITLE: FOUNDATION PLAN
SCALE (U.N.O.)

JOB NAME: University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 02, 2021
JOB. NO. 20266
DWG. NO. S200

SEAL: STATE OF KENTUCKY — JEFFREY K ALEXY — 30698 — LICENSED PROFESSIONAL ENGINEER
SEAL: STATE OF KENTUCKY — DAN DUNCAN JR. — 20712 — LICENSED PROFESSIONAL ENGINEER

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:18 AM



NOTE: ALL HSS FRAMING THIS PLAN L.D.V. UNLESS NOTED OTHERWISE.

B S201 STAIR B CANOPY FRAMING PLAN

1/8" = 1'-0"

TAG NOTES

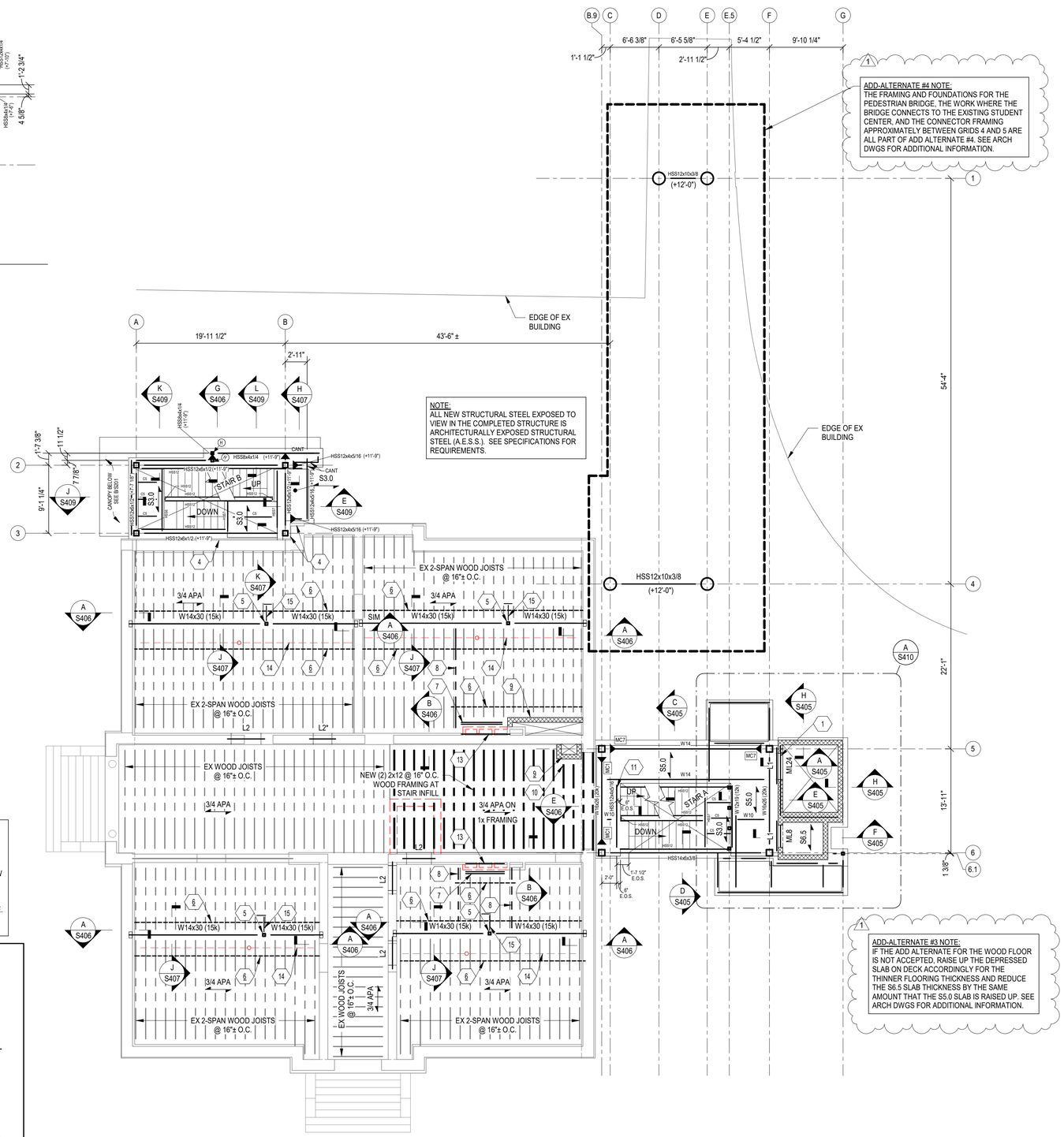
1. EXTEND MASONRY LINTEL ACROSS ENTIRE WIDTH OF SHAFT WALL.
2. HSS2x2x1/4 STUB BEAM OFF COLUMN TO SUPPORT DECK / EDGE ANGLE. SHOP WELD TO COLUMN W/ 3/16" ALL-AROUND FILLET WELD.
3. HSS4x4x1/4 STUB BEAM OFF COLUMN TO SUPPORT DECK / EDGE ANGLE. SHOP WELD TO COLUMN W/ 3/16" ALL-AROUND FILLET WELD.
4. MAINTAIN 4" EXPANSION JOINT AROUND BUILDING WALL PLAN PROJECTIONS / UNDULATIONS. JOG DECK EDGE ANGLE ACCORDINGLY, MITER AND WELD JOINTS PER THE GENERAL NOTES.
5. WHERE NEW COLUMN CONFLICTS WITH EXISTING WOOD JOIST, DEMOLISH AND REPLACE EXISTING WOOD JOIST WITH NEW (2) 2x12 JOISTS IN SAME JOIST SPACE AS EXISTING.
6. TEMPORARILY SHORE EXISTING WOOD FLOOR JOISTS. CUT EXISTING JOISTS AT END TO INSTALL NEW GIRDER/CMU WALL. ATTACH EXISTING JOISTS TO NEW SUPPORT W/ FACE-MOUNT HANGERS. FIELD MEASURE EXISTING JOIST SIZE TO DETERMINE APPROPRIATE HANGER SIZE. HANGER SHALL BE CAPABLE OF SUPPORTING 1,000 POUNDS DOWNWARD LOAD U.N.O.
7. NEW (2) 2x12 WOOD GIRDER W/ SIMPSON HUS212-2 FACE-MOUNT HANGER EACH END (HU212-2 AT CMU SUPPORT).
8. NEW 2x12 WOOD JOIST NAILED TO EXISTING JOIST THAT SUPPORTS NEW GIRDER. NAIL JOISTS TOGETHER W/ 16d NAILS @ 16" O.C. EACH EDGE + (6) 16d NAILS @ ENDS. BEAR NEW JOIST ON EXISTING WALL TO MATCH EXISTING JOIST CONDITION. INSTALL HANGER AT NEW STEEL BEAM CAPABLE OF SUPPORTING 1,400 POUNDS DOWNWARD LOAD.
9. 24" C.M.U. BOND BEAM W/ TOP ELEVATION AT EX F.F.E. REINFORCE W/ (2) #5 CONT. ENSURE NEW JOIST/BEAM HANGERS ARE INSTALLED INTO GROUT-FILLED CELLS.
10. SIMPSON HU212-2 JOIST HANGER WHERE JOISTS ARE SUPPORTED BY CMU WALLS.
11. COPE HSS BEAM AND PROVIDE FULL-DEPTH DOUBLE-ANGLE CONNECTION TO GIRDER PER DET A/S401.
12. SEE DET L/S406 FOR BEAM CONNECTION TO GIRDER.
13. 2x12 WOOD LEDGER TO SUPPORT EDGE OF NEW SUBFLOOR. ANCHOR TO EX MASONRY WALL PER DET B/S406.
14. LINE OF EX WOOD GIRDER AND EX STEEL POSTS TO BE DEMOLISHED AFTER INSTALLATION OF SHORING.
15. 2x10 x 2'-0" WOOD BRACING FRAMED INTO 2x10 WOOD BLOCKING W/ (3) 10d END NAILS. CONNECT BRACING TO COLUMN W/ 2-BOLT SHEAR PLATE PER DET D/S401. NAIL NEW FLOOR SHEATHING TO BRACING & BLOCKING W/ 10d NAILS @ 6" O.C.

SUGGESTED DEMO/RECONSTRUCTION SEQUENCING AT FLOOR LEVELS:

1. PROVIDE CONTINUOUS SHORING FROM FOUNDATION TO THIRD FLOOR FRAMING OF BAY.
2. DEMO EXISTING STEEL COLUMNS AND WOOD GIRDERS. DISCONNECT EX WOOD JOISTS FROM WOOD GIRDERS WITHOUT DAMAGING WOOD JOISTS TO REMAIN. TRIM OR CUT FASTENERS FROM JOISTS THAT MAY CAUSE DAMAGE IF REMOVED.
3. CAREFULLY AND CLEANLY CUT EX WOOD FLOOR JOISTS TO PERMIT INSTALLATION OF NEW STEEL BEAMS AND COLUMNS. CUT EX JOISTS TO BE SQUARE TO SUPPORT. SEE DETAIL J/S407.
4. INSTALL NEW STEEL BEAMS AND POSTS AND ALL CONNECTIONS TO EXISTING STRUCTURE AT EACH FLOOR STARTING AT THE FOUNDATION AND WORKING UP TO EACH LEVEL ABOVE.
5. REMOVE SHORING.
6. REPEAT AT EACH BAY TYP OF (4).

EXISTING STRUCTURE REFERENCE AND BUILDING LAYOUT NOTES:

1. IT IS THE DESIGN INTENT FOR THE FINISHED TOP SURFACE OF THE NEW FLOORS TO ALIGN WITH THE NEW FINISHED TOP SURFACE OF THE ADJACENT EXISTING FLOOR. FLOOR ELEVATIONS SHOWN ON THE DRAWING SET ARE APPROXIMATE. **THE STRUCTURAL STEEL CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO FIELD MEASURE EXISTING FLOOR ELEVATIONS.** FIELD VERIFIED DIMENSIONS/MEASUREMENTS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW. NEW STORY HEIGHTS LABELED ON THE DRAWING SET SHALL BE ADJUSTED AS REQUIRED TO COMPLY WITH THE FIELD-VERIFIED MEASUREMENTS AND STATED DESIGN INTENT.
2. IT IS THE DESIGN INTENT FOR ADDITIONS TO THE EXISTING FRAZEE STRUCTURE TO BE CONSTRUCTED IN A MANNER THAT IS ORTHOGONAL TO THE EXISTING FRAZEE BUILDING, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. SEE PLANS AND SECTIONS FOR ADDITIONAL LAYOUT AND FIELD MEASUREMENT REQUIREMENTS.
3. WHERE QUESTIONS REGARDING LAYOUT OCCUR, SUBMIT REQUEST FOR INFORMATION (RFI) TO ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF ELEMENTS IN QUESTION.



A S201 FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. FINISHED FIRST FLOOR ELEVATION (+12'-0"±). FINISHED SECOND FLOOR ELEVATION (+25'-2 3/8"±). FINISHED THIRD FLOOR ELEVATION (+37'-8 1/4"±). SEE BUILDING LAYOUT NOTE ON PLAN FOR MORE INFORMATION. TOP OF CONCRETE DOES NOT ALWAYS OCCUR AT FINISHED FLOOR ELEVATION. SEE SECTIONS AND ARCH DWGS FOR DETAILS.
3. TOP OF STEEL BEAM SHALL OCCUR AT BOTTOM OF DECK, U.N.O. SEE SECTIONS FOR TOP OF STEEL AT STAIR BEAMS, LANDING BEAMS, AND PEDESTRIAN BRIDGE BEAMS, U.N.O.
4. SEE DWGS S101 & S102 FOR GENERAL NOTES.
5. SEE DWGS S401, S402, S403, & S404 FOR TYPICAL FRAMING DETAILS.
6. SEE DWG S501 FOR COLUMN SCHEDULE.
7. SPACE BEAMS EVENLY THROUGHOUT BAY U.N.O.
8. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE D/S404 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.
9. ALL HSS BEAMS SHOWN ON PLAN ARE L.D.V. U.N.O. OR SHOWN L.D.H. IN SECTIONS.

FRAMING LEGEND

- 1.5WR20 = 1 1/2" 20 GA GALV WIDE RIB STEEL ROOF DECK.
- S5.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).
- S6.5 = 5" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
- S3.0 = 3" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 9/16" 26 GA FORM DECK (3" TOTAL THICKNESS).
- 3/4 APA = 23/32" T&G APA RATED STURD-I-FLOOR. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403. WHERE SHOWN ON EXISTING FRAMING, INSTALL ON TOP OF EXISTING WOOD SUBFLOOR.
- 3/4 APA ON 1x FRAMING = 23/32" T&G APA RATED STURD-I-FLOOR ON TOP OF NEW 1x FRAMING. MATCH EX 1x FRAMING WIDTHS. MATCH EX 1x FRAMING LAYOUT AND PATTERN. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403.
- W16x26 (15k) (+12'-0") = STEEL BEAM SIZE. SERVICE LOAD REACTION (KIPS) EACH END. TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- MC1 = MOMENT CONNECTION. SEE DETAIL D/S402.
- = COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
- H = HSS STEEL HANGER. SEE SECTIONS.
- = C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
- = CONCRETE WALL.
- = WALL BELOW DECK.
- BP1 = STEEL BEARING PLATE. SEE DETAIL F/S403.
- TR1 = STEEL TRUSS. SEE SHEET S601 FOR ELEVATION AND DETAILS.
- L1 = STEEL LINTEL. SEE DET H/S403 FOR SCHEDULE.
- ML8 = MASONRY LINTEL. SEE DET B/S403 FOR SCHEDULE.
- FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL B/S402.
- CANT = CANTILEVER BEAM END.
- 12 / 1/4 = ROOF SLOPE.
- W8 = W8x18 (8k).
- W10 = W10x12 (12k).
- W12 = W12x14 (12k).
- W14 = W14x22 (15k).
- HSS12 = HSS12x2x3/8 L.D.V.
- HSS7 = HSS7x4x3/8 L.D.V.
- HSS6 = HSS6x6x5/16
- C5 = C5x6.7 (8k).
- RD ⊗ = ROOF DRAIN. SEE DET D/S404 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
- TBA ● = ROOF TIE-BACK ANCHOR. SEE ARCH DWGS FOR DETAILS.

PROJECT NORTH

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: FIRST FLOOR FRAMING PLAN
SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

SEAL
STATE OF KENTUCKY
DAN J. KUBICAN JR.
20712
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

ISSUE DATE: July 02, 2021
JOB. NO.: 20266
DWG. NO.: S201

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:20 AM

TAG NOTES

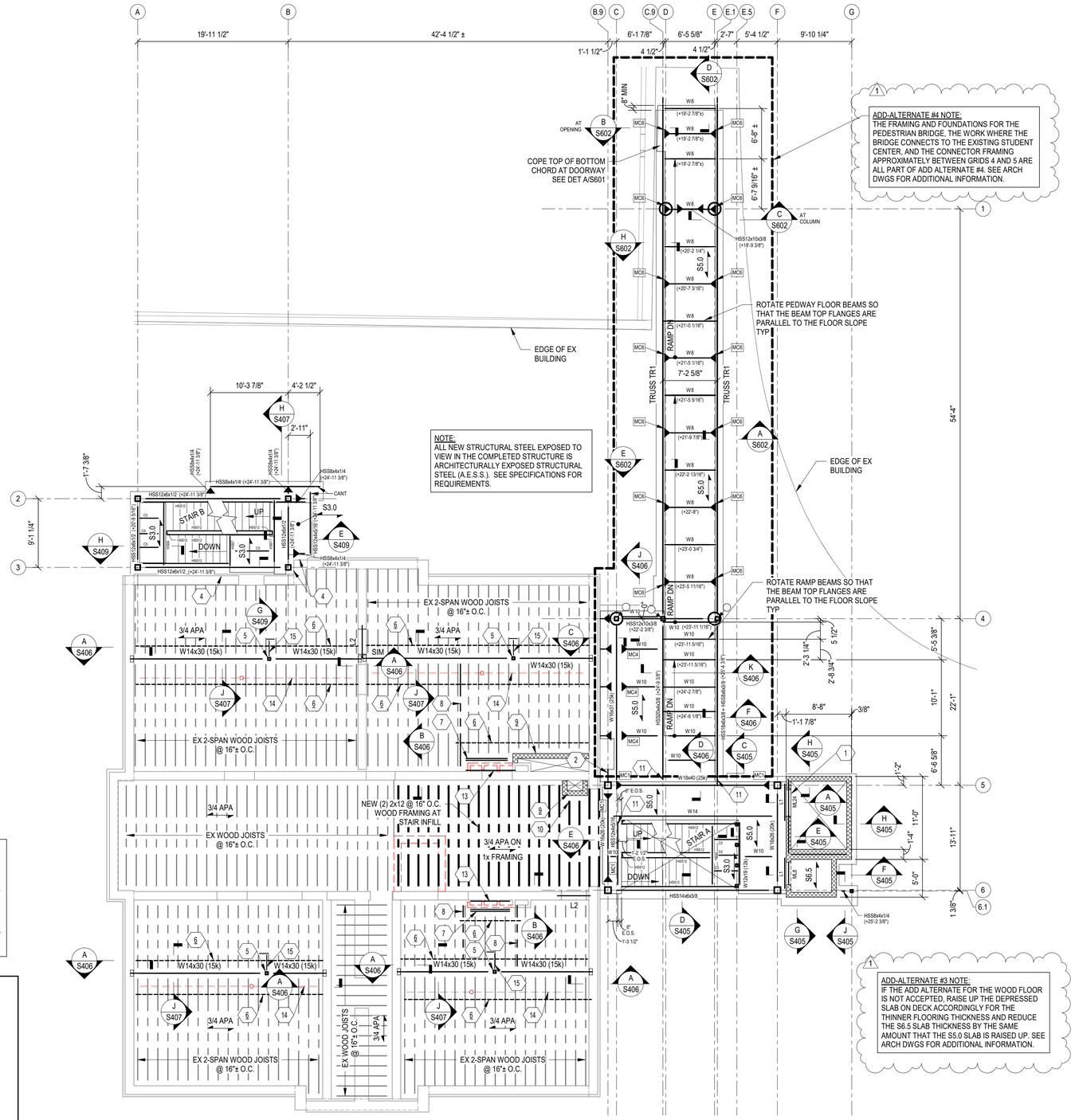
1. EXTEND MASONRY LINTEL ACROSS ENTIRE WIDTH OF SHAFT WALL.
2. HSS2x2x1/4 STUB BEAM OFF COLUMN TO SUPPORT DECK / EDGE ANGLE. SHOP WELD TO COLUMN W/ 3/16" ALL-AROUND FILLET WELD.
3. HSS4x4x1/4 STUB BEAM OFF COLUMN TO SUPPORT DECK / EDGE ANGLE. SHOP WELD TO COLUMN W/ 3/16" ALL-AROUND FILLET WELD.
4. MAINTAIN 4" EXPANSION JOINT AROUND BUILDING WALL PLAN PROJECTIONS / UNDULATIONS. JOG DECK EDGE ANGLE ACCORDINGLY, MITER AND WELD JOINTS PER THE GENERAL NOTES.
5. WHERE NEW COLUMN CONFLICTS WITH EXISTING WOOD JOIST, DEMOLISH AND REPLACE EXISTING WOOD JOIST WITH NEW (2) 2x12 JOISTS IN SAME JOIST SPACE AS EXISTING.
6. TEMPORARILY SHORE EXISTING WOOD FLOOR JOISTS. CUT EXISTING JOISTS AT END TO INSTALL NEW GIRDER/CMU WALL. ATTACH EXISTING JOISTS TO NEW SUPPORT W/ FACE-MOUNT HANGERS. FIELD MEASURE EXISTING JOIST SIZE TO DETERMINE APPROPRIATE HANGER SIZE. HANGER SHALL BE CAPABLE OF SUPPORTING 1,000 POUNDS DOWNWARD LOAD U.N.O.
7. NEW (2) 2x12 WOOD GIRDER W/ SIMPSON HUS212-2 FACE-MOUNT HANGER EACH END (HU212-2 AT CMU SUPPORT).
8. NEW 2x12 WOOD JOIST NAILED TO EXISTING JOIST THAT SUPPORTS NEW GIRDER. NAIL JOISTS TOGETHER W/ 16d NAILS @ 16" O.C. EACH EDGE + (6) 16d NAILS @ ENDS. BEAR NEW JOIST ON EXISTING WALL TO MATCH EXISTING JOIST CONDITION. INSTALL HANGER AT NEW STEEL BEAM CAPABLE OF SUPPORTING 1,400 POUNDS DOWNWARD LOAD.
9. 24" C.M.U. BOND BEAM W/ TOP ELEVATION AT EX F.F.E. REINFORCE W/ (2) #5 CONT. ENSURE NEW JOIST/BEAM HANGERS ARE INSTALLED INTO GROUT-FILLED CELLS.
10. SIMPSON HU212-2 JOIST HANGER WHERE JOISTS ARE SUPPORTED BY CMU WALLS.
11. COPE HSS BEAM AND PROVIDE FULL-DEPTH DOUBLE-ANGLE CONNECTION TO GIRDER PER DET A/S401.
12. SEE DET I/S406 FOR BEAM CONNECTION TO GIRDER.
13. 2x12 WOOD LEDGER TO SUPPORT EDGE OF NEW SUBFLOOR. ANCHOR TO EX MASONRY WALL PER DET B/S406.
14. LINE OF EX WOOD GIRDER AND EX STEEL POSTS TO BE DEMOLISHED AFTER INSTALLATION OF SHORING.
15. 2x10 x 2'-0" WOOD BRACING FRAMED INTO 2x10 WOOD BLOCKING W/ (3) 10d END NAILS. CONNECT BRACING TO COLUMN W/ 2-BOLT SHEAR PLATE PER DET D/S401. NAIL NEW FLOOR SHEATHING TO BRACING & BLOCKING W/ 10d NAILS @ 6" O.C.

SUGGESTED DEMO/RECONSTRUCTION SEQUENCING AT FLOOR LEVELS:

1. PROVIDE CONTINUOUS SHORING FROM FOUNDATION TO THIRD FLOOR FRAMING OF BAY.
2. DEMO EXISTING STEEL COLUMNS AND WOOD GIRDERS. DISCONNECT EX WOOD JOISTS FROM WOOD GIRDERS WITHOUT DAMAGING WOOD JOISTS TO REMAIN. TRIM OR CUT FASTENERS FROM JOISTS THAT MAY CAUSE DAMAGE IF REMOVED.
3. CAREFULLY AND CLEANLY CUT EX WOOD FLOOR JOISTS TO PERMIT INSTALLATION OF NEW STEEL BEAMS AND COLUMNS. CUT EX JOISTS TO BE SQUARE TO SUPPORT. SEE DETAIL J/S407.
4. INSTALL NEW STEEL BEAMS AND POSTS AND ALL CONNECTIONS TO EXISTING STRUCTURE AT EACH FLOOR STARTING AT THE FOUNDATION AND WORKING UP TO EACH LEVEL ABOVE.
5. REMOVE SHORING.
6. REPEAT AT EACH BAY TYP OF (4).

EXISTING STRUCTURE REFERENCE AND BUILDING LAYOUT NOTES:

1. IT IS THE DESIGN INTENT FOR THE FINISHED TOP SURFACE OF THE NEW FLOORS TO ALIGN WITH THE NEW FINISHED TOP SURFACE OF THE ADJACENT EXISTING FLOOR. FLOOR ELEVATIONS SHOWN ON THE DRAWING SET ARE APPROXIMATE. **THE STRUCTURAL STEEL CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO FIELD MEASURE EXISTING FLOOR ELEVATIONS.** FIELD VERIFIED DIMENSIONS/MEASUREMENTS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW. NEW STORY HEIGHTS LABELED ON THE DRAWING SET SHALL BE ADJUSTED AS REQUIRED TO COMPLY WITH THE FIELD-VERIFIED MEASUREMENTS AND STATED DESIGN INTENT.
2. IT IS THE DESIGN INTENT FOR ADDITIONS TO THE EXISTING FRAZEE STRUCTURE TO BE CONSTRUCTED IN A MANNER THAT IS ORTHOGONAL TO THE EXISTING FRAZEE BUILDING, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. SEE PLANS AND SECTIONS FOR ADDITIONAL LAYOUT AND FIELD MEASUREMENT REQUIREMENTS.
3. WHERE QUESTIONS REGARDING LAYOUT OCCUR, SUBMIT REQUEST FOR INFORMATION (RFI) TO ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF ELEMENTS IN QUESTION.



SECOND FLOOR FRAMING PLAN

A S202 — 1/8" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. FINISHED FIRST FLOOR ELEVATION (+12'-0"±). FINISHED SECOND FLOOR ELEVATION (+25'-2 3/8"±). FINISHED THIRD FLOOR ELEVATION (+37'-8 1/4"±). SEE BUILDING LAYOUT NOTE ON PLAN FOR MORE INFORMATION. TOP OF CONCRETE DOES NOT ALWAYS OCCUR AT FINISHED FLOOR ELEVATION. SEE SECTIONS AND ARCH DWGS FOR DETAILS.
3. TOP OF STEEL BEAM SHALL OCCUR AT BOTTOM OF DECK, U.N.O. SEE SECTIONS FOR TOP OF STEEL AT STAIR BEAMS, LANDING BEAMS, AND PEDESTRIAN BRIDGE BEAMS, U.N.O.
4. SEE DWGS S101 & S102 FOR GENERAL NOTES.
5. SEE DWGS S401, S402, S403, & S404 FOR TYPICAL FRAMING DETAILS.
6. SEE DWG S501 FOR COLUMN SCHEDULE.
7. SPACE BEAMS EVENLY THROUGHOUT BAY U.N.O.
8. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE D/S404 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.
9. ALL HSS BEAMS SHOWN ON PLAN ARE L.D.V. U.N.O. OR SHOWN L.D.H. IN SECTIONS.

FRAMING LEGEND

- 1.5WR20 = 1 1/2" 20 GA GALV WIDE RIB STEEL ROOF DECK.
- S5.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).
- S6.5 = 5" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
- S3.0 = 3" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 9/16" 26 GA FORM DECK (3" TOTAL THICKNESS).
- 3/4 APA = 23/32" T&G APA RATED STURD-I-FLOOR. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403. WHERE SHOWN ON EXISTING FRAMING, INSTALL ON TOP OF EXISTING WOOD SUBFLOOR.
- 3/4 APA ON 1x FRAMING = 23/32" T&G APA RATED STURD-I-FLOOR ON TOP OF NEW 1x FRAMING. MATCH EX 1x FRAMING WIDTHS. MATCH EX 1x FRAMING LAYOUT AND PATTERN. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403.
- W16x26 (15k) (+12'-0") — STEEL BEAM SIZE; SERVICE LOAD REACTION (KIPS) EACH END; TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- MC1 = MOMENT CONNECTION. SEE DETAIL D/S402.
- = COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
- H = HSS STEEL HANGER. SEE SECTIONS.
- = C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
- = CONCRETE WALL.
- = WALL BELOW DECK.
- BP1 = STEEL BEARING PLATE. SEE DETAIL F/S403.
- TR1 = STEEL TRUSS. SEE SHEET S601 FOR ELEVATION AND DETAILS.
- L1 = STEEL LINTEL. SEE DET H/S403 FOR SCHEDULE.
- ML8 = MASONRY LINTEL. SEE DET B/S403 FOR SCHEDULE.
- FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL B/S402.
- CANT = CANTILEVER BEAM END.
- 12 / 1/4 = ROOF SLOPE.
- W8 = W8x18 (8k).
- W10 = W10x12 (12k).
- W12 = W12x14 (12k).
- W14 = W14x22 (15k).
- HSS12 = HSS12x2x3/8 L.D.V.
- HSS7 = HSS7x4x3/8 L.D.V.
- HSS6 = HSS6x6x5/16
- C5 = C5x6.7 (8k).
- RD ⊗ = ROOF DRAIN. SEE DET D/S404 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
- TBA ● = ROOF TIE-BACK ANCHOR. SEE ARCH DWGS FOR DETAILS.

PROJECT NORTH

SEAL — STATE OF KENTUCKY — JEFFREY K ALEXY — 30698 — LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

SEAL — STATE OF KENTUCKY — DAN LINDMAN JR. — 20712 — LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:
1 Addendum #1 7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: SECOND FLOOR FRAMING PLAN
SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511 B Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 02, 2021
JOB. NO. 20266
DWG. NO. S202

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:22 AM

TAG NOTES

1. EXTEND MASONRY LINTEL ACROSS ENTIRE WIDTH OF SHAFT WALL.
2. HSS2x2x1/4 STUB BEAM OFF COLUMN TO SUPPORT DECK / EDGE ANGLE. SHOP WELD TO COLUMN W/ 3/16" ALL-AROUND FILLET WELD.
3. HSS4x4x1/4 STUB BEAM OFF COLUMN TO SUPPORT DECK / EDGE ANGLE. SHOP WELD TO COLUMN W/ 3/16" ALL-AROUND FILLET WELD.
4. MAINTAIN 4" EXPANSION JOINT AROUND BUILDING WALL PLAN PROJECTIONS / UNDULATIONS. JOG DECK EDGE ANGLE ACCORDINGLY, MITER AND WELD JOINTS PER THE GENERAL NOTES.
5. WHERE NEW COLUMN CONFLICTS WITH EXISTING WOOD JOIST, DEMOLISH AND REPLACE EXISTING WOOD JOIST WITH NEW (2) 2x12 JOISTS IN SAME JOIST SPACE AS EXISTING.
6. TEMPORARILY SHORE EXISTING WOOD FLOOR JOISTS. CUT EXISTING JOISTS AT END TO INSTALL NEW GIRDER/CMU WALL. ATTACH EXISTING JOISTS TO NEW SUPPORT W/ FACE-MOUNT HANGERS. FIELD MEASURE EXISTING JOIST SIZE TO DETERMINE APPROPRIATE HANGER SIZE. HANGER SHALL BE CAPABLE OF SUPPORTING 1,000 POUNDS DOWNWARD LOAD U.N.O.
7. NEW (2) 2x12 WOOD GIRDER W/ SIMPSON HUS212-2 FACE-MOUNT HANGER EACH END (HU212-2 AT CMU SUPPORT).
8. NEW 2x12 WOOD JOIST NAILED TO EXISTING JOIST THAT SUPPORTS NEW GIRDER. NAIL JOISTS TOGETHER W/ 16d NAILS @ 16" O.C. EACH EDGE + (6) 16d NAILS @ ENDS. BEAR NEW JOIST ON EXISTING WALL TO MATCH EXISTING JOIST CONDITION. INSTALL HANGER AT NEW STEEL BEAM CAPABLE OF SUPPORTING 1,400 POUNDS DOWNWARD LOAD.
9. 24" C.M.U. BOND BEAM W/ TOP ELEVATION AT EX F.F.E. REINFORCE W/ (2) #5 CONT. ENSURE NEW JOIST/BEAM HANGERS ARE INSTALLED INTO GROUT-FILLED CELLS.
10. SIMPSON HU212-2 JOIST HANGER WHERE JOISTS ARE SUPPORTED BY CMU WALLS.
11. COPE HSS BEAM AND PROVIDE FULL-DEPTH DOUBLE-ANGLE CONNECTION TO GIRDER PER DET A/S401.
12. SEE DET L/S406 FOR BEAM CONNECTION TO GIRDER.
13. 2x12 WOOD LEDGER TO SUPPORT EDGE OF NEW SUBFLOOR. ANCHOR TO EX MASONRY WALL PER DET B/S406.
14. LINE OF EX WOOD GIRDER AND EX STEEL POSTS TO BE DEMOLISHED AFTER INSTALLATION OF SHORING.
15. 2x10 x 2'-0" WOOD BRACING FRAMED INTO 2x10 WOOD BLOCKING W/ (3) 10d END NAILS. CONNECT BRACING TO COLUMN W/ 2-BOLT SHEAR PLATE PER DET D/S401. NAIL NEW FLOOR SHEATHING TO BRACING & BLOCKING W/ 10d NAILS @ 6" O.C.

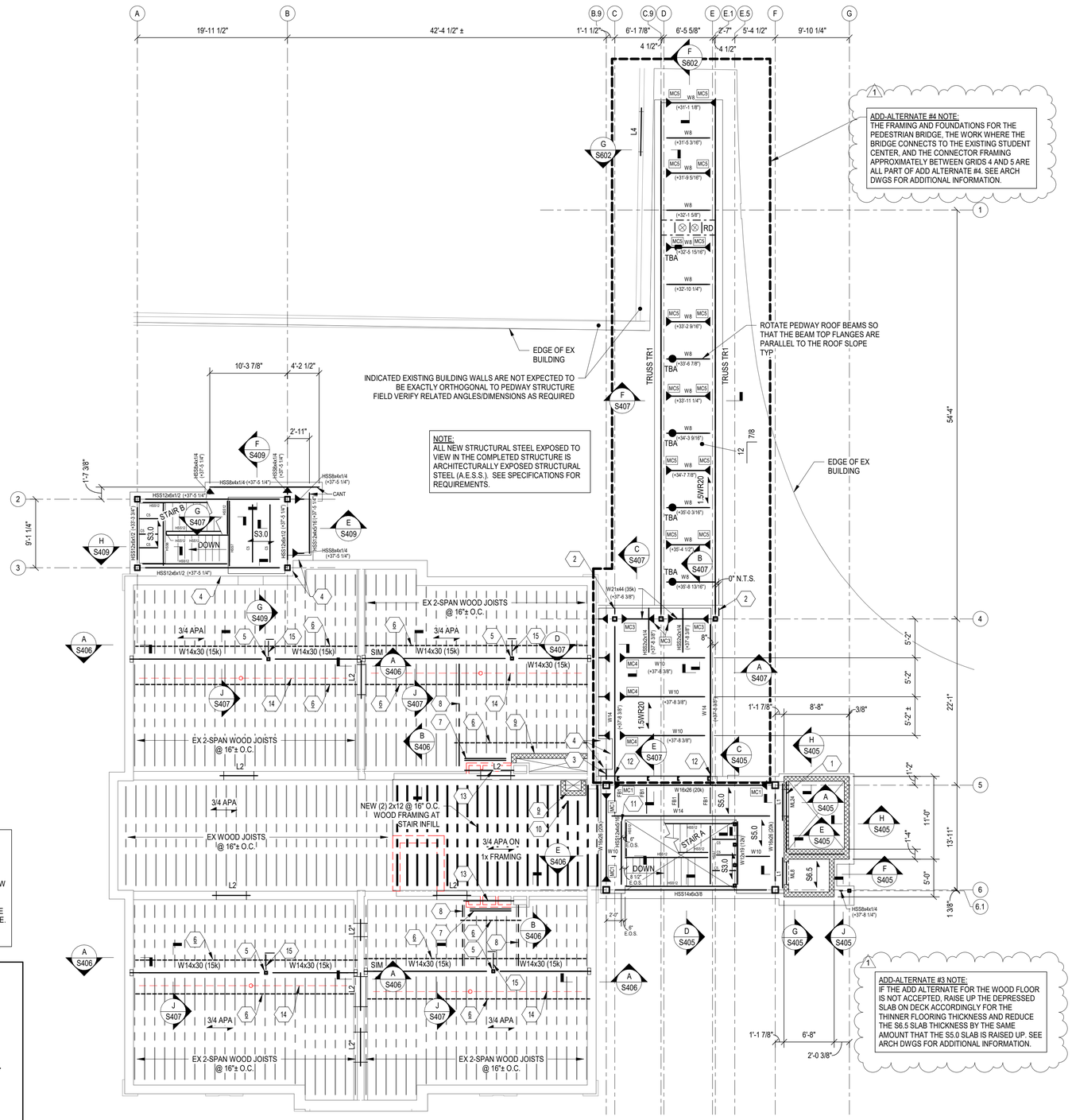
1

SUGGESTED DEMO/RECONSTRUCTION SEQUENCING AT FLOOR LEVELS:

1. PROVIDE CONTINUOUS SHORING FROM FOUNDATION TO THIRD FLOOR FRAMING OF BAY.
2. DEMO EXISTING STEEL COLUMNS AND WOOD GIRDERS. DISCONNECT EX WOOD JOISTS FROM WOOD GIRDERS WITHOUT DAMAGING WOOD JOISTS TO REMAIN. TRIM OR CUT FASTENERS FROM JOISTS THAT MAY CAUSE DAMAGE IF REMOVED.
3. CAREFULLY AND CLEANLY CUT EX WOOD FLOOR JOISTS TO PERMIT INSTALLATION OF NEW STEEL BEAMS AND COLUMNS. CUT EX JOISTS TO BE SQUARE TO SUPPORT. SEE DETAIL J/S407.
4. INSTALL NEW STEEL BEAMS AND POSTS AND ALL CONNECTIONS TO EXISTING STRUCTURE AT EACH FLOOR STARTING AT THE FOUNDATION AND WORKING UP TO EACH LEVEL ABOVE.
5. REMOVE SHORING.
6. REPEAT AT EACH BAY TYP OF (4).

EXISTING STRUCTURE REFERENCE AND BUILDING LAYOUT NOTES:

1. IT IS THE DESIGN INTENT FOR THE FINISHED TOP SURFACE OF THE NEW FLOORS TO ALIGN WITH THE NEW FINISHED TOP SURFACE OF THE ADJACENT EXISTING FLOOR. FLOOR ELEVATIONS SHOWN ON THE DRAWING SET ARE APPROXIMATE. **THE STRUCTURAL STEEL CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO FIELD MEASURE EXISTING FLOOR ELEVATIONS.** FIELD VERIFIED DIMENSIONS/MEASUREMENTS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW. NEW STORY HEIGHTS LABELED ON THE DRAWING SET SHALL BE ADJUSTED AS REQUIRED TO COMPLY WITH THE FIELD-VERIFIED MEASUREMENTS AND STATED DESIGN INTENT.
2. IT IS THE DESIGN INTENT FOR ADDITIONS TO THE EXISTING FRAZEE STRUCTURE TO BE CONSTRUCTED IN A MANNER THAT IS ORTHOGONAL TO THE EXISTING FRAZEE BUILDING, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. SEE PLANS AND SECTIONS FOR ADDITIONAL LAYOUT AND FIELD MEASUREMENT REQUIREMENTS.
3. WHERE QUESTIONS REGARDING LAYOUT OCCUR, SUBMIT REQUEST FOR INFORMATION (RFI) TO ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF ELEMENTS IN QUESTION.



A S203 THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. FINISHED FIRST FLOOR ELEVATION (+12'-0"±). FINISHED SECOND FLOOR ELEVATION (+25'-2 3/8"±). FINISHED THIRD FLOOR ELEVATION (+37'-9 1/4"±). SEE BUILDING LAYOUT NOTE ON PLAN FOR MORE INFORMATION. TOP OF CONCRETE DOES NOT ALWAYS OCCUR AT FINISHED FLOOR ELEVATION. SEE SECTIONS AND ARCH DWGS FOR DETAILS.
3. TOP OF STEEL BEAM SHALL OCCUR AT BOTTOM OF DECK, U.N.O. SEE SECTIONS FOR TOP OF STEEL AT STAIR BEAMS, LANDING BEAMS, AND PEDESTRIAN BRIDGE BEAMS, U.N.O.
4. SEE DWGS S101 & S102 FOR GENERAL NOTES.
5. SEE DWGS S401, S402, S403, & S404 FOR TYPICAL FRAMING DETAILS.
6. SEE DWG S501 FOR COLUMN SCHEDULE.
7. SPACE BEAMS EVENLY THROUGHOUT BAY U.N.O.
8. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE D/S404 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.
9. ALL HSS BEAMS SHOWN ON PLAN ARE L.D.V. U.N.O. OR SHOWN L.D.H. IN SECTIONS.

FRAMING LEGEND

1.5WR20	= 1 1/2" 20 GA GALV WIDE RIB STEEL ROOF DECK.
S5.0	= 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).
S6.5	= 5" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
S3.0	= 3" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 9/16" 26 GA FORM DECK (3" TOTAL THICKNESS).
3/4 APA	= 23/32" T&G APA RATED STURD-I-FLOOR. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403. WHERE SHOWN ON EXISTING FRAMING, INSTALL ON TOP OF EXISTING WOOD SUBFLOOR.
3/4 APA ON 1x FRAMING	= 23/32" T&G APA RATED STURD-I-FLOOR ON TOP OF NEW 1x FRAMING. MATCH EX 1x FRAMING WIDTHS. MATCH EX 1x FRAMING LAYOUT AND PATTERN. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403.
W16x26 (15k) (+12'-0")	STEEL BEAM SIZE. SERVICE LOAD REACTION (KIPS) EACH END. TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
MC1	= MOMENT CONNECTION. SEE DETAIL D/S402.
	= COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
H	= HSS STEEL HANGER. SEE SECTIONS.
	= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
	= CONCRETE WALL.
	= WALL BELOW DECK.
BP1	= STEEL BEARING PLATE. SEE DETAIL F/S403.
TR1	= STEEL TRUSS. SEE SHEET S601 FOR ELEVATION AND DETAILS.
L1	= STEEL LINTEL. SEE DET H/S403 FOR SCHEDULE.
ML8	= MASONRY LINTEL. SEE DET B/S403 FOR SCHEDULE.
FB1	= BEAM BOTTOM FLANGE BRACE. SEE DETAIL B/S402.
CANT	= CANTILEVER BEAM END.
12 / 1/4	= ROOF SLOPE.
W8	= W8x18 (8k).
W10	= W10x12 (12k).
W12	= W12x14 (12k).
W14	= W14x22 (15k).
HSS12	= HSS12x2x3/8 L.D.V.
HSS7	= HSS7x4x3/8 L.D.V.
HSS6	= HSS6x6x5/16
C5	= C5x6.7 (8k).
RD ⊗	= ROOF DRAIN. SEE DET D/S404 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
TBA ●	= ROOF TIE-BACK ANCHOR. SEE ARCH DWGS FOR DETAILS.

PROJECT NORTH

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

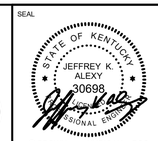
SHEET TITLE: THIRD FLOOR FRAMING PLAN

SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL



©BROWN + KUBICAN, PSC

SEAL

©BROWN + KUBICAN, PSC

ISSUE DATE: July 02, 2021

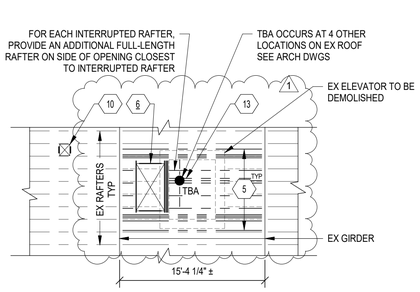
JOB. NO.: 20266

DWG. NO.: S203

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:24 AM

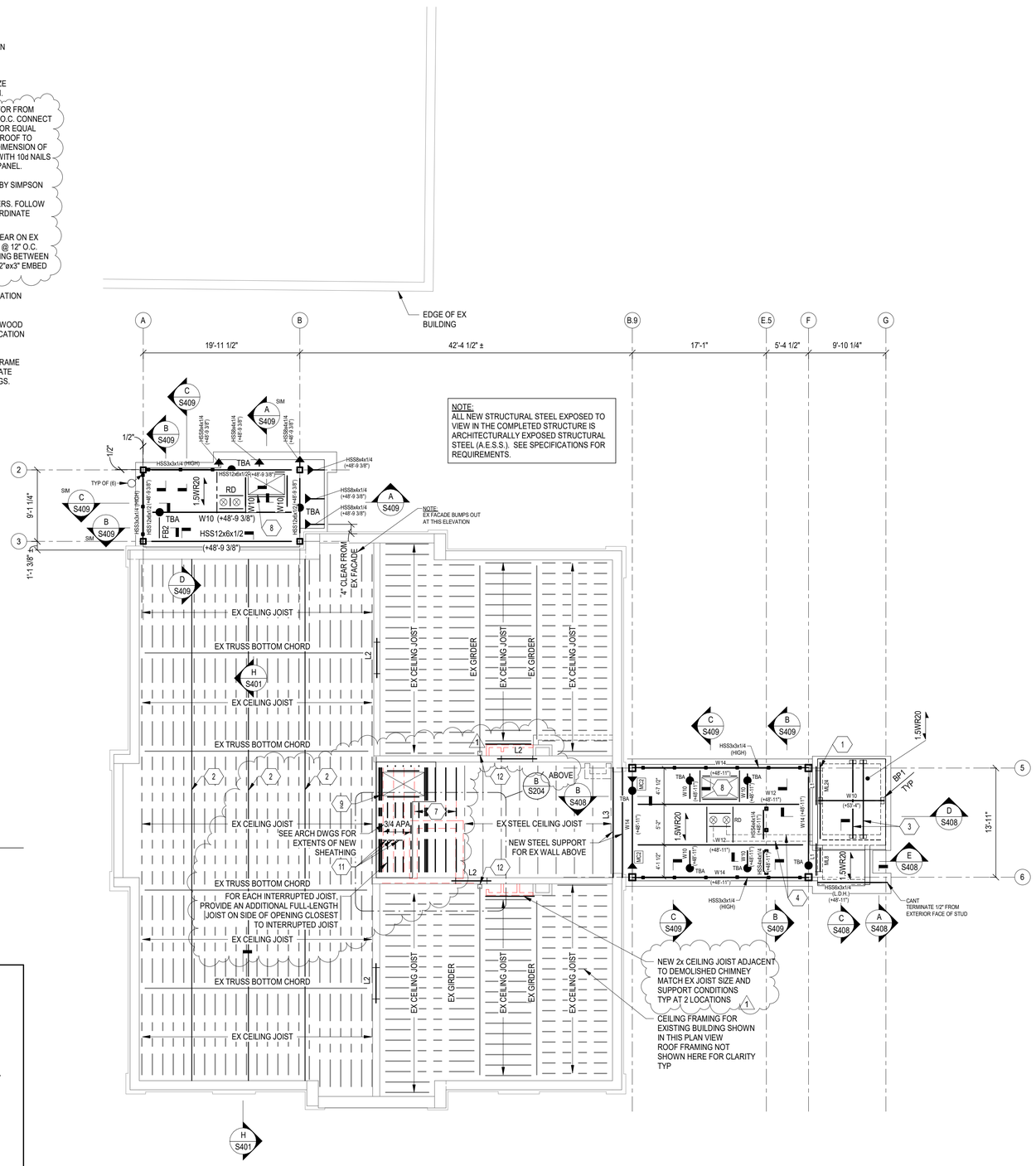
TAG NOTES

1. EXTEND MASONRY LINTEL ACROSS ENTIRE WIDTH OF SHAFT WALL.
2. BRACE EXISTING WOOD TRUSS TOP CHORDS WITH 2x FRAMING AT EACH PANEL POINT. SEE DET H/S401.
3. W8x18 HOIST BEAM. COORDINATE NUMBER, LOCATION, AND ELEVATION OF HOIST BEAM(S) WITH ELEVATOR MANUFACTURER. INCLUDE ALL REQUIRED HOIST BEAM(S) IN BASE BID.
4. ROOF DRAIN LINES, SEE M.E.P. DWGS. SEE DET E/S408 FOR HOLE SIZE AND SPACING PARAMETERS WHERE LINES PASS THROUGH W14 BEAM.
5. DEMO EXISTING ROOF RAFTERS AND ROOF SHEATHING OVER ELEVATOR FROM SUPPORT TO SUPPORT. REPLACE W/ NEW 2x12 ROOF RAFTERS @ 16" O.C. CONNECT TO EXISTING GIRDER/NEW JOIST W/ LUS210 BY SIMPSON STRONG-TIE OR EQUAL (HUCQ210-3-SDS AT GIRDER). INSTALL NEW PLYWOOD SHEATHING AT ROOF TO MATCH EXISTING SHEATHING THICKNESS. LAYOUT PANELS W/ LONG DIMENSION OF PANEL PERPENDICULAR TO RAFTERS. NAIL SHEATHING TO RAFTERS WITH 10d NAILS AT 6" O.C. AT EDGES AND 12"x16" O.C. SPACING WITHIN THE FIELD OF PANEL.
6. ROOF HATCH. FRAME OPENING W/ 2x12 JOISTS AS SHOWN W/ LUS210 BY SIMPSON STRONG-TIE OR EQUAL EACH END ((3) 2x12 W/ HUCQ210-3-SDS WHEN SUPPORTING TIEBACK ANCHOR). USE MAXIMUM NUMBER OF FASTENERS. FOLLOW ALL MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS. COORDINATE OPENING SIZE AND LOCATION W/ ARCH AND MEP DRAWINGS.
7. DEMO EX CONCRETE SLAB AND STEEL JOISTS AT ATTIC LEVEL THAT BEAR ON EX ELEVATOR (TO BE DEMOLISHED) AND REPLACE W/ 2x12 WOOD JOISTS @ 12" O.C. BEAR NEW JOISTS ON P.T. 2x ON EX MASONRY SUPPORT W/ 2x BLOCKING BETWEEN JOISTS AT ENDS AND AT MIDSPAN. CONNECT P.T. 2x TO EX WALL W/ 1/2"øx3" EMBED ADHESIVE ANCHORS @ 16" O.C.
8. ROOF HATCH. SEE DET D/S404. COORDINATE OPENING SIZE AND LOCATION W/ ARCH AND MEP DRAWINGS.
9. NEW FLOOR HATCH. DEMO EX CEILING JOISTS AND REPLACE W/ NEW WOOD JOISTS. SEE TAG NOTE 7 ABOVE. COORDINATE OPENING SIZE AND LOCATION W/ ARCH DRAWINGS.
10. MEP PENETRATION THROUGH EX ROOF BETWEEN EXISTING JOISTS. FRAME OPENING W/ JOISTS THAT MATCH EX ROOF RAFTER DEPTH. COORDINATE OPENING SIZE, LOCATION, AND QUANTITY W/ ARCH AND MEP DRAWINGS.
11. (2) 2x12 BLOCKING BELOW ROOF LADDER.
12. INSTALL (2) 2x6 VERT BLOCKING FOR FULL DEPTH OF GIRDER BELOW POST WHERE NOT SUPPORTED BY GIRDER . ENSURE FULL BEARING BELOW POST. NAIL BLOCKING TO END OF GIRDER W/ (4) 10d NAILS.
13. INSTALL (3) 2x RAFTERS MINIMUM BELOW TIE-BACK ANCHOR IN ADDITION TO TYP RAFTER. CONDITION OCCURS IN BOTH REFRAMED AREAS AND EXISTING AREAS. SEE ARCH DWGS FOR LOCATIONS. MATCH SURROUNDING RAFTER SIZE. INSTALL FACE-MOUNT HANGER AT EACH END TO SUPPORT 5,000 POUND VERTICAL LOAD. INSTALL 2x FULL-DEPTH BLOCKING IN TWO JOIST SPACES ON BOTH SIDES OF ANCHOR.



B S204 PARTIAL ROOF FRAMING PLAN

1/8" = 1'-0"



A S204 ROOF FRAMING PLAN

1/8" = 1'-0"

EXISTING STRUCTURE REFERENCE AND BUILDING LAYOUT NOTES:

1. IT IS THE DESIGN INTENT FOR THE FINISHED TOP SURFACE OF THE NEW FLOORS TO ALIGN WITH THE NEW FINISHED TOP SURFACE OF THE ADJACENT EXISTING FLOOR. FLOOR ELEVATIONS SHOWN ON THE DRAWING SET ARE APPROXIMATE. **THE STRUCTURAL STEEL CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO FIELD MEASURE EXISTING FLOOR ELEVATIONS.** FIELD VERIFIED DIMENSIONS/MEASUREMENTS SHALL BE INCORPORATED INTO THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR REVIEW. NEW STORY HEIGHTS LABELED ON THE DRAWING SET SHALL BE ADJUSTED AS REQUIRED TO COMPLY WITH THE FIELD-VERIFIED MEASUREMENTS AND STATED DESIGN INTENT.
2. IT IS THE DESIGN INTENT FOR ADDITIONS TO THE EXISTING FRAZEE STRUCTURE TO BE CONSTRUCTED IN A MANNER THAT IS ORTHOGONAL TO THE EXISTING FRAZEE BUILDING, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. SEE PLANS AND SECTIONS FOR ADDITIONAL LAYOUT AND FIELD MEASUREMENT REQUIREMENTS.
3. WHERE QUESTIONS REGARDING LAYOUT OCCUR, SUBMIT REQUEST FOR INFORMATION (RFI) TO ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF ELEMENTS IN QUESTION.

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. FINISHED FIRST FLOOR ELEVATION (+12'-0"±).
   FINISHED SECOND FLOOR ELEVATION (+25'-2 3/8"±).
   FINISHED THIRD FLOOR ELEVATION (+37'-8 1/4"±).
   SEE BUILDING LAYOUT NOTE ON PLAN FOR MORE INFORMATION.
   TOP OF CONCRETE DOES NOT ALWAYS OCCUR AT FINISHED FLOOR ELEVATION. SEE SECTIONS AND ARCH DWGS FOR DETAILS.
3. TOP OF STEEL BEAM SHALL OCCUR AT BOTTOM OF DECK, U.N.O. SEE SECTIONS FOR TOP OF STEEL AT STAIR BEAMS, LANDING BEAMS, AND PEDESTRIAN BRIDGE BEAMS, U.N.O.
4. SEE DWGS S101 & S102 FOR GENERAL NOTES.
5. SEE DWGS S401, S402, S403, & S404 FOR TYPICAL FRAMING DETAILS.
6. SEE DWG S501 FOR COLUMN SCHEDULE.
7. SPACE BEAMS EVENLY THROUGHOUT BAY U.N.O.
8. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE D/S404 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.
9. ALL HSS BEAMS SHOWN ON PLAN ARE L.D.V. U.N.O. OR SHOWN L.D.H. IN SECTIONS.

FRAMING LEGEND

- 1.5WR20 = 1 1/2" 20 GA GALV WIDE RIB STEEL ROOF DECK.
- S5.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).
- S6.5 = 5" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
- S3.0 = 3" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 9/16" 26 GA FORM DECK (3" TOTAL THICKNESS).
- 3/4 APA = 23/32" T&G APA RATED STURD-I-FLOOR. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403. WHERE SHOWN ON EXISTING FRAMING, INSTALL ON TOP OF EXISTING WOOD SUBFLOOR.
- 3/4 APA ON 1x FRAMING = 23/32" T&G APA RATED STURD-I-FLOOR ON TOP OF NEW 1x FRAMING. MATCH EX 1x FRAMING WIDTHS. MATCH EX 1x FRAMING LAYOUT AND PATTERN. SEE ARCH DWGS FOR EXTENTS. SEE DETAIL J/S403.
- W16x26 (15k) (+12'-0") = STEEL BEAM SIZE. SERVICE LOAD REACTION (KIPS) EACH END. TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- MC1 = MOMENT CONNECTION. SEE DETAIL D/S402.
- = COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
- H = HSS STEEL HANGER. SEE SECTIONS.
- = C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
- = CONCRETE WALL.
- = WALL BELOW DECK.
- BP1 = STEEL BEARING PLATE. SEE DETAIL F/S403.
- TR1 = STEEL TRUSS. SEE SHEET S601 FOR ELEVATION AND DETAILS.
- L1 = STEEL LINTEL. SEE DET H/S403 FOR SCHEDULE.
- ML8 = MASONRY LINTEL. SEE DET B/S403 FOR SCHEDULE.
- FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL B/S402.
- CANT = CANTILEVER BEAM END.
- 12 / 1/4 = ROOF SLOPE.
- W8 = W8x18 (8k).
- W10 = W10x12 (12k).
- W12 = W12x14 (12k).
- W14 = W14x22 (15k).
- HSS12 = HSS12x2x3/8 L.D.V.
- HSS7 = HSS7x4x3/8 L.D.V.
- HSS6 = HSS6x6x5/16
- C5 = C5x6.7 (8k).
- RD ⊗ = ROOF DRAIN. SEE DET D/S404 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
- TBA ● = ROOF TIE-BACK ANCHOR. SEE ARCH DWGS FOR DETAILS.

PROJECT NORTH

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: ROOF FRAMING PLAN

SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

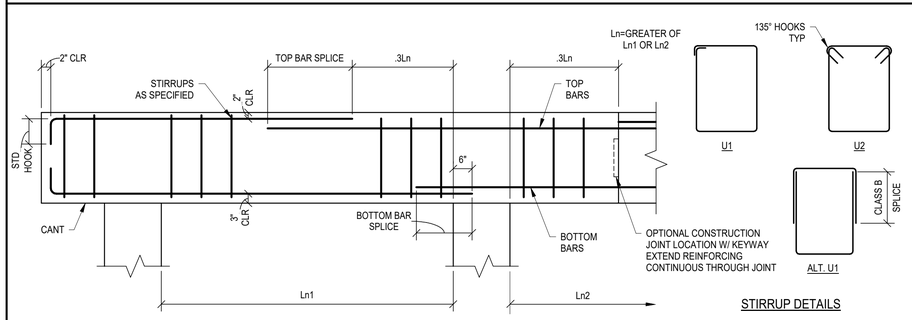
SEAL
STATE OF KENTUCKY
DAN KUBICAN JR.
20712
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

ISSUE DATE: July 02, 2021

JOB. NO.: 20266

DWG. NO.: S204

CONCRETE GRADE BEAM SCHEDULE



STIRRUP DETAILS

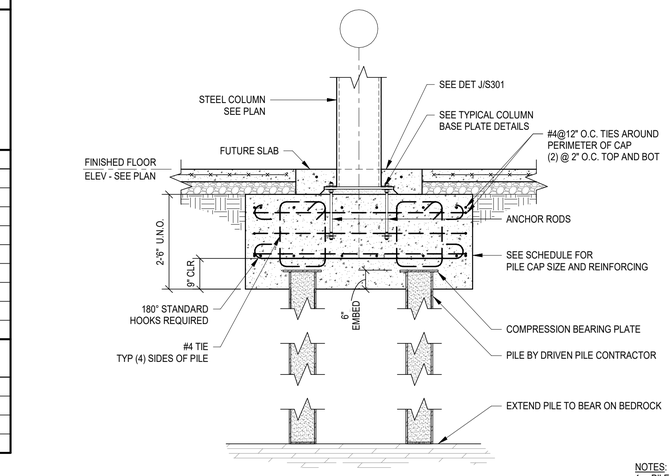
CLASS B SPLICE LENGTH
(4,000 PSI CONCRETE)

BAR SIZE	BOTTOM BARS	TOP BARS
#3	19"	25"
#4	25"	33"
#5	31"	41"
#6	37"	49"
#7	54"	71"
#8	62"	81"
#9	70"	91"
#10	78"	102"
#11	87"	114"

MARK	WIDTH	DEPTH	BOTTOM BARS	TOP BARS	STIRRUPS (EACH END)			REMARKS
					SIZE	TYPE	SPACING	
GB1	24"	30"	(4) #6	(4) #6	#4	U1	1@2", R@12"	BOTTOM OF STIRRUPS TO BE 9" CLEAR OF BOTTOM OF GRADE BEAM.
GB2	36"	24"	(5) #7	(5) #7	#4	U1	1@2", R@10"	
GB3	40"	30"	(7) #6	(7) #6	#4	U1	1@2", R@12"	BOTTOM OF STIRRUPS TO BE 9" CLEAR OF BOTTOM OF GRADE BEAM.
GB4	24"	24"	(4) #6	(4) #6	#4	U1	1@2", R@10"	

NOTES:
1. GRADE BEAM SIDE WALLS SHALL BE FORMED. EARTH FORMED IS NOT PERMITTED.
2. LOCATE ALL CONSTRUCTION JOINTS IN GRADE BEAMS CENTERED OVER THE PILE/SUPPORTS OR AS SHOWN IN DETAIL ABOVE. CONSTRUCTION JOINTS SHALL HAVE REINFORCING RUN CONTINUOUS THROUGH THE JOINT (CONTINUING TO SPLICE LOCATIONS SHOWN ABOVE) WITH A MINIMUM 9"x18"x1 1/2" SHEAR KEY.
3. SLEEVE ALL PENETRATIONS THROUGH GRADE BEAMS AND TRENCH FOOTINGS WITH 1" COMPRESSIBLE MATERIAL AROUND PIPE.
4. HORIZONTAL PENETRATIONS THROUGH GRADE BEAMS AND TRENCH FOOTINGS SHALL OCCUR IN THE MIDDLE THIRD OF THE MEMBER DEPTH AND IN THE MIDDLE THIRD OF THE MEMBER SPAN. VERTICAL PENETRATIONS LARGER THAN 2" ARE PROHIBITED IN GRADE BEAMS AND TRENCH FOOTINGS. PENETRATIONS SHALL NOT INTERRUPT OR CUT THROUGH REINFORCING.
5. WHERE GRADE BEAM MARKS CHANGE OVER INTERMEDIATE SUPPORT, USE TOP BARS OVER SUPPORT FROM GRADE BEAM WITH GREATER REINFORCING.
6. QUANTITY AT STIRRUP SPACING REFERS TO NUMBER OF SPACES, NOT NUMBER OF TIES.
7. CONTRACTOR SHALL PROVIDE AND INSTALL MECHANICAL COUPLERS IN LIEU OF LAP SPLICES FOR LONGITUDINAL REINFORCING WHERE REQUIRED TO PLACE BARS IN CONGESTED ZONES. LOCATIONS OF SPLICE OR MECHANICAL COUPLER SHALL BE AS SHOWN ON THE SCHEDULE. MECHANICAL COUPLER SHALL DEVELOP FULL TENSION AND COMPRESSION CAPACITY OF REBAR TO 1.25 TIMES THE YIELD STRENGTH. SUBMIT PRODUCT CUT SHEET OF MECHANICAL COUPLERS FOR ENGINEER'S REVIEW WITH REINFORCING SHOP DRAWINGS.
8. WHERE "CANT" NOTED ON PLAN, EXTEND TOP REINFORCEMENT FROM END OF CANTILEVER TO DISTANCE OF 0.3Ln PAST FIRST SUPPORT.

A S303 TYPICAL GRADE BEAM SCHEDULE
NOT TO SCALE



*NOTE:
"PILE" REFERS TO ANY DRIVEN PILE INCLUDING BUT NOT LIMITED TO PUSH PILES, HELICAL PILES, OR MICROPILES. FINAL SELECTION AND DESIGN OF DRIVEN PILE SHALL BE BY DRIVEN PILE CONTRACTOR.

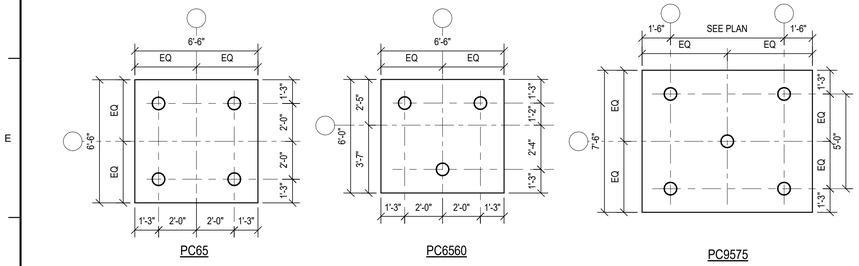
PILE CAP REINFORCEMENT SCHEDULE

CAP MARK	BOTTOM		TOP	
	LONG	SHORT	LONG	SHORT
PC65	(7) #7	(7) #7	(7) #7	(7) #7
PC6560	(6) #7	(7) #7	(6) #7	(7) #7
PC9575	(8) #7	(11) #7	(8) #7	(11) #7

NOTE: PROVIDE STANDARD 180° HOOKS AT EACH END OF REINFORCING BARS. SEE DETAIL C/S303 FOR PILE CAP LAYOUT.

NOTES:
1. PILE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND LOCATION OF PILE INSTALLATIONS WITHIN THE EXISTING BASEMENT. IT IS EXPECTED THAT THERE WILL BE LIMITED ACCESS AND REDUCED OVERHEAD HEIGHT WHICH MAY REQUIRE SPECIAL EQUIPMENT TO INSTALL THE PILES. PILE CONTRACTOR SHALL INCLUDE IN THEIR BASE BID ANY EXTRA PROVISIONS INCLUDING BUT NOT LIMITED TO, PROTECTION OF EXISTING FACILITY, ADDITIONAL DEMOLITION AND REPLACEMENT OF EXISTING FOR ACCESS, AND TEMPORARY OR PERMENANT RELOCATION OF UTILITIES IF ACCEPTABLE TO MEP ENGINEER AND OWNER.
2. SEE SPECIFICATION SECTION 31 65 13 FOR FURTHER INFORMATION AND REQUIREMENTS.

B S303 PILE CAP DETAIL
NOTES TO CONTRACTOR



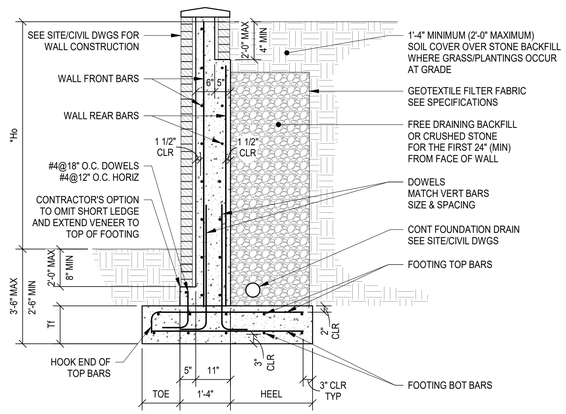
NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING PILE LENGTH. PILE LENGTHS SHALL BE AS REQUIRED TO ACHIEVE THE ALLOWABLE LOADS SHOWN AND SHALL BE CONFIRMED BY THE DRIVEN PILE CONTRACTOR AND LOAD-TESTING OF TEST-PILE INSTALLATIONS.
2. PILE CAP OVERALL DIMENSIONS SHALL BE INCREASED AS NECESSARY TO ACCOMMODATE INCIDENTAL PILE MISLOCATION. MAINTAIN MINIMUM EDGE DISTANCES SHOWN IN DETAILS. DO NOT DECREASE OVERALL PILE CAP DIMENSIONS SHOWN IN DETAILS.
3. THE MAXIMUM PILE SERVICE LOAD PER PILE GROUP IS BASED ON THE ECCENTRIC LOADING, IF ANY, IN THE PILE CAPS SHOWN. THE REQUIRED LOAD IS SUBJECT TO CHANGE IF ANY REVISIONS ARE MADE TO THE GEOMETRY SHOWN TO ACCOMMODATE CONTRACTOR'S SELECTED PILE SYSTEM. PILE CONTRACTOR SHALL INCLUDE IN THEIR BASE BID ANY COSTS ASSOCIATED WITH REVISING OR INCREASING PILE CAP GEOMETRY FOR THEIR CHOSEN PILE SYSTEM.
4. PILE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND LOCATION OF PILE INSTALLATIONS WITHIN THE EXISTING BUILDING. IT IS EXPECTED THAT THERE WILL BE LIMITED ACCESS AND REDUCED OVERHEAD HEIGHT, WHICH MAY REQUIRE SPECIAL EQUIPMENT TO INSTALL THE PILES. PILE CONTRACTOR SHALL INCLUDE IN THEIR BASE BID ANY EXTRA PROVISIONS INCLUDING BUT NOT LIMITED TO, PROTECTION OF EXISTING FACILITY, ADDITIONAL DEMOLITION AND REPLACEMENT OF EXISTING FOR ACCESS, AND TEMPORARY OR PERMANENT RELOCATION OF UTILITIES IF ACCEPTABLE TO MEP ENGINEER AND OWNER.
5. SEE SPECIFICATION SECTION 31 65 13 FOR FURTHER INFORMATION AND REQUIREMENTS.

NOTES:
1. GRADE AT HIGH SIDE AND/OR LOW SIDE MAY BE GRASS, PLANTINGS, SITE PAVEMENT, OR OTHER. COORDINATE WITH ARCHITECTURAL AND SITE/CIVIL DRAWINGS FOR PERTINENT INFORMATION.
2. WALL IS DESIGNED FOR DRAINED CONDITION OF THE RETAINED MATERIALS. PROVIDE CONTINUOUS FOUNDATION DRAIN AT BASE OF WALL ON THE RETAINED GRADE SIDE OF WALL. SEE SITE, CIVIL AND PLUMBING DRAWINGS FOR DRAIN TERMINATION INFORMATION. IF NOT OTHERWISE NOTED, PIPE SHALL DAYLIGHT IN MANNER TO PERMIT DRAINAGE.
3. UNLESS NOTED OTHERWISE, TERMINATE TOP BARS 2" BELOW TOP OF WALL & PROVIDE HORIZONTAL BAR MAXIMUM 4" BELOW TOP OF WALL EACH FACE OF WALL.
4. SEE SITE/CIVIL DRAWINGS FOR WALL LAYOUT, WALL ELEVATIONS, AND GRADING.

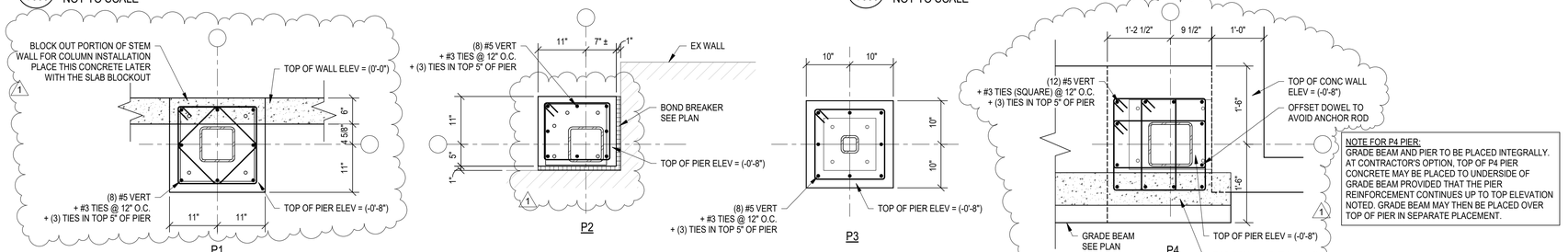
RETAINING WALL SCHEDULE

*Ho	DIMENSIONS			REINFORCEMENT			
	FOOTING			FOOTING		WALL	
	Tf	TOE	HEEL	TOP BARS	BOT BARS	FRONT BARS	REAR BARS
8'-0"	1'-4"	1'-0"	4'-2"	#6@12" O.C. TRANS + (7) #4 LONGITUDINAL	#6@12" O.C. TRANS + (7) #4 LONGITUDINAL	#6@12" O.C. VERT + #4@12" O.C. HORIZ	#6@12" O.C. VERT+ #4@12" O.C. HORIZ
6'-0"	1'-0"	1'-0"	2'-2"	#5@12" O.C. TRANS + (5) #4 LONGITUDINAL	#5@12" O.C. TRANS + (5) #4 LONGITUDINAL	#4@12" O.C. VERT + #4@12" O.C. HORIZ	#4@12" O.C. VERT+ #4@12" O.C. HORIZ
4'-0"	1'-0"	6"	1'-2"	#5@12" O.C. TRANS + (5) #4 LONGITUDINAL	#5@12" O.C. TRANS + (5) #4 LONGITUDINAL	#4@12" O.C. VERT + #4@12" O.C. HORIZ	#4@12" O.C. VERT+ #4@12" O.C. HORIZ

* CONTACT ENGINEER IF MAXIMUM RETAINED HEIGHT NOTED WILL BE EXCEEDED BASED ON FINISHED GRADING.



C S303 TYPICAL PILE CAP LAYOUTS
NOTES TO CONTRACTOR



D S303 TYPICAL SITE RETAINING WALL DETAIL
NOTES TO CONTRACTOR

NOTE FOR P4 PIER:
GRADE BEAM AND PIER TO BE PLACED INTEGRALLY. AT CONTRACTOR'S OPTION, TOP OF P4 PIER CONCRETE MAY BE PLACED TO UNDERSIDE OF GRADE BEAM PROVIDED THAT THE PIER REINFORCEMENT CONTINUES UP TO TOP ELEVATION NOTED. GRADE BEAM MAY THEN BE PLACED OVER TOP OF PIER IN SEPARATE PLACEMENT.

E S303 CONCRETE PIER DETAILS
NOTES TO CONTRACTOR

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:
1 Addendum #1 7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: TYPICAL FOUNDATION DETAILS
SCALE: (U.N.O.)

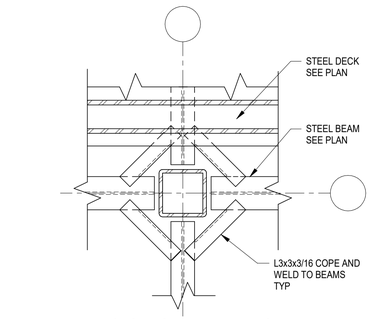
JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER

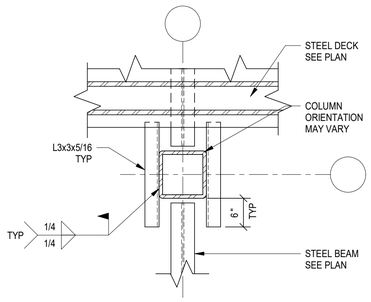
SEAL
STATE OF KENTUCKY
DAN HIBBARD JR.
20712
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 02, 2021
JOB. NO.: 20266
DWG. NO.: S303

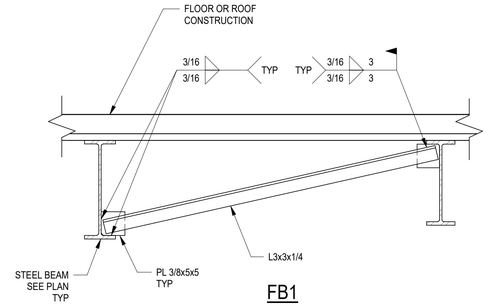
BIM 360://11398-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:26 AM



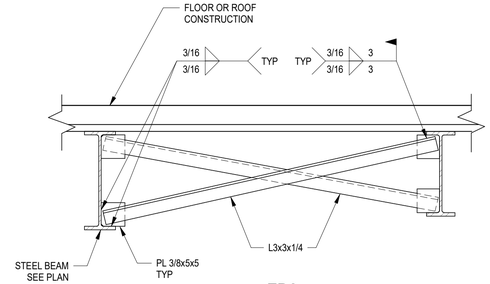
DECK SUPPORT WHERE BEAMS
OCCUR ON ALL SIDES



DECK SUPPORT WHERE BEAMS
DO NOT OCCUR ON ALL SIDES



FB1



FB2

NAILING SCHEDULE

CONNECTION	LOCATION	MINIMUM NUMBER AND SIZE
TOP PLATE TO STUD	END NAIL	2 - 16d (AT 2x4 STUDS) 3 - 16d (AT 2x6 STUDS OR LARGER)
STUD TO SOLE PLATE	END NAIL END NAIL TOE NAIL	2 - 16d (AT 2x4 STUDS) 3 - 16d (AT 2x6 STUDS OR LARGER) 4 - 8d
DOUBLED STUD	FACE NAIL	16d @ 24" O.C. STAGGER EDGES
BUILT-UP CORNER STUD	FACE NAIL	16d @ 24" O.C.
DOUBLED TOP PLATE	FACE NAIL	16d @ 16" O.C. STAGGER EDGES
DOUBLE TOP PLATE LAP SPLICE	FACE NAIL	8 - 16d (24" MIN LAP)
CONTINUOUS HEADER, TWO PIECES	FACE NAIL	16d @ 16" O.C. EACH EDGE + 6 - 16d @ ENDS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOE NAIL	3 - 8d
BAND BOARD TO TOP PLATE	TOE NAIL	8d @ 6" O.C.
BAND BOARD TO JOIST/RAFTER	END NAIL	3 - 16d
HORIZONTAL JOIST TO TOP PLATE	TOE NAIL	3 - 16d
COLLAR TIE TO PARALLEL RAFTER	FACE NAIL	3 - 10d
RAFTER/TRUSS TO PLATE	TOE NAIL	3 - 10d
RAFTER TO RIDGE	END NAIL TOE NAIL	3 - 16d 3 - 16d
ROOF SHEATHING TO TRUSS/PLATE/RAFTER	FACE NAIL	10d @ 6" O.C. EDGES AND 10d @ 12" O.C. INTERMEDIATE
WALL SHEATHING TO STUD/BLOCKING/BAND BOARD	FACE NAIL	8d @ 6" O.C. EDGES AND 8d @ 12" O.C. INTERMEDIATE
WALL SHEATHING TO TOP/BOT PLATE	FACE NAIL	8d @ 4" O.C.

NOTES:
1. ABOVE NAILING TO BE PROVIDED IN ADDITION TO ANY METAL FRAMING ANCHORS SPECIFIED.
2. CONNECTIONS NOT IDENTIFIED SHALL BE FASTENED (NAILED) IN ACCORDANCE WITH IBC 2015 TABLE 2304.10.1.
3. NAIL SIZES SHALL BE "COMMON" U.N.O.

TYPICAL DECK SUPPORT AT COLUMN DETAIL

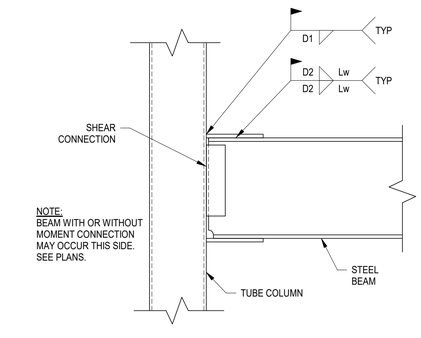
A S402 NOT TO SCALE

FLANGE BRACE DETAIL

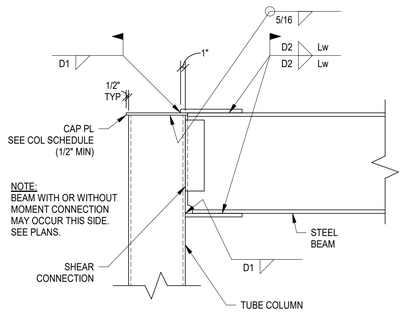
B S402 NOT TO SCALE

NAILING SCHDULE

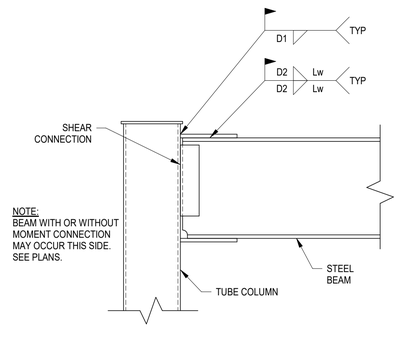
C S402 NOT TO SCALE



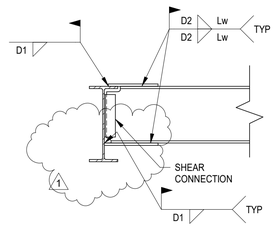
TYPE I CONNECTION



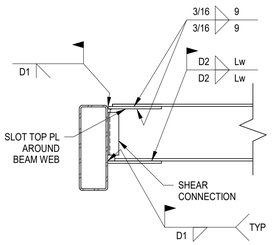
TYPE II CONNECTION



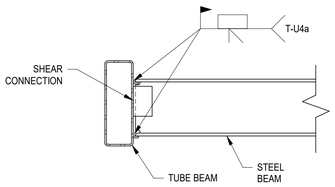
TYPE III CONNECTION



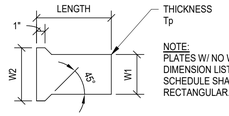
TYPE IV CONNECTION



TYPE V CONNECTION



TYPE VI CONNECTION



NOTE:
PLATES W/ NO W2
DIMENSION LISTED IN
SCHEDULE SHALL BE
RECTANGULAR.

TYPICAL FLANGE PLATE

MOMENT CONNECTION SCHEDULE

MARK	CONNECTION TYPE	FLANGE PLATE							WELDS		
		TOP				BOTTOM					
		Tp	W1	W2	LENGTH	Tp	WIDTH	LENGTH	D1	D2	Lw
MC1	I	3/8"	4 1/2"	8"	12"	3/8"	8"	12"	5/16	3/16	9
MC2	II	3/8"	4"	8"	12"	3/8"	8"	12"	5/16	3/16	9
MC3	III	3/8"	5 1/2"	--	12"	3/8"	8"	12"	5/16	3/16	9
MC4	IV	3/8"	3"	--	9"	3/8"	5"	9"	5/16	3/16	6
MC5	V	3/8"	7"	--	12"	3/8"	8"	12"	5/16	3/16	9
MC6	VI	--	--	--	--	--	--	--	--	--	--
MC7	I	3/8"	4"	8"	12"	3/8"	8"	12"	5/16	3/16	9

TYPICAL MOMENT CONNECTION DETAILS

D S402 NOT TO SCALE

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: TYPICAL FRAMING DETAILS

SCALE (U.N.O.)

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

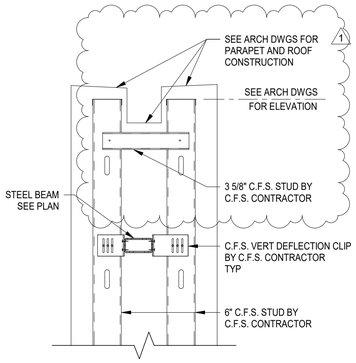
SEAL
STATE OF KENTUCKY
DAN KUBICAN JR.
20712
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

ISSUE DATE: July 02, 2021

JOB. NO.: 20266

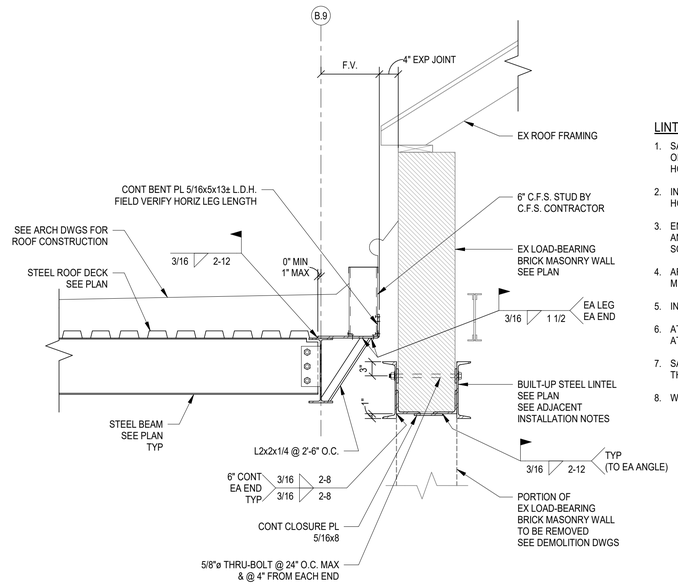
DWG. NO.: S402

BIM 360://11398-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:27 AM



A S408 SECTION

3/4" = 1'-0"

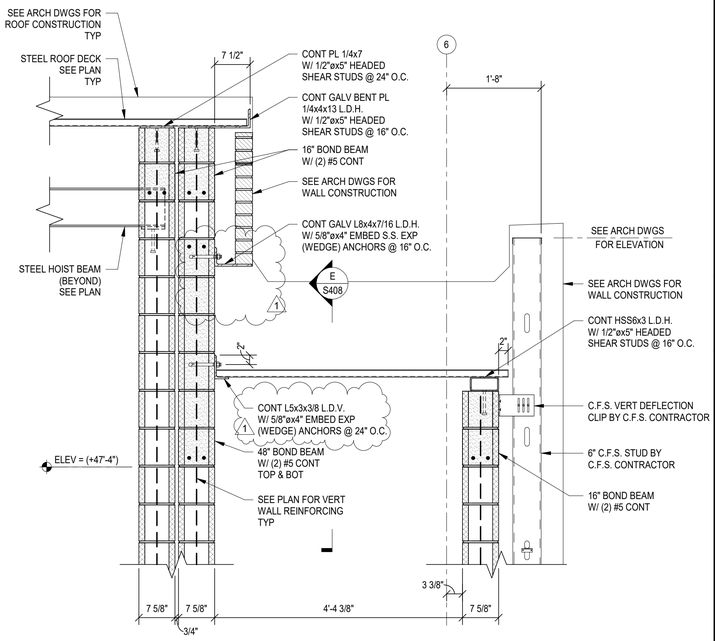


B S408 SECTION

3/4" = 1'-0"

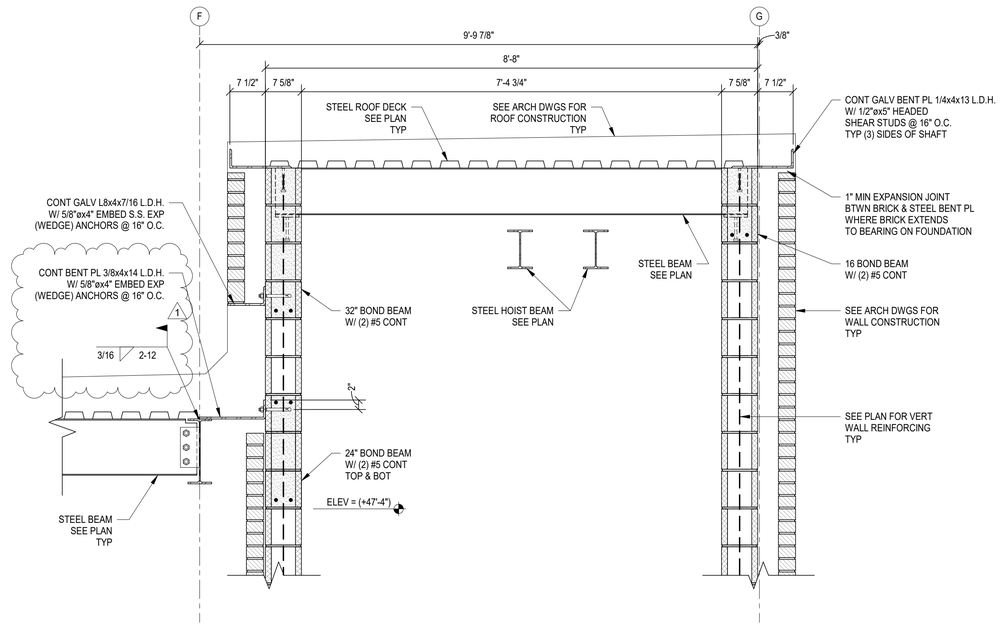
LINTEL INSTALLATION NOTES

1. SAWCUT GROOVE ON EXTERIOR FACE OF EXISTING MASONRY WALL FOR INSERTION OF STEEL ANGLE. GROOVE DEPTH INTO THE WALL SHALL MATCH ANGLE'S HORIZONTAL LEG LENGTH PLUS 1/2". DO NOT OVER-CUT.
2. INSTALL SHOP-FABRICATED STEEL ANGLE + CHANNEL MEMBER BY INSERTING HORIZONTAL ANGLE LEG INTO THE GROOVE CUT IN NOTE 1.
3. ENSURE PROPER BEARING AT ENDS OF STEEL MEMBER. POCKET EXISTING WALL AND DRY PACK GROUT AROUND BEARING AS REQUIRED TO ENSURE FLUSH AND SOLID BEARING CONDITIONS BETWEEN STEEL AND MASONRY.
4. AFTER GROUT HAS CURED, REPEAT STEPS 1-3 FOR STEEL ANGLE + CHANNEL MEMBER ON OPPOSITE FACE OF WALL.
5. INSTALL ALL THRU-BOLTS CONNECTING STEEL ON OPPOSITE WALL FACES.
6. AT FLOOR LEVELS BELOW THE NEW LINTEL, REMOVE ANY FLOOR OR CEILING ATTACHMENT TO THE PORTION OF WALL THAT IS TO BE REMOVED.
7. SAWCUT OPENING JAMBS (VERTICALLY) AND SAFELY REMOVE MASONRY TO FORM THE INTENDED OPENING. DO NOT DAMAGE MASONRY AT THE LINTEL BEARINGS.
8. WELD CLOSURE PLATE TO BOTTOM OF LINTEL AS INDICATED.



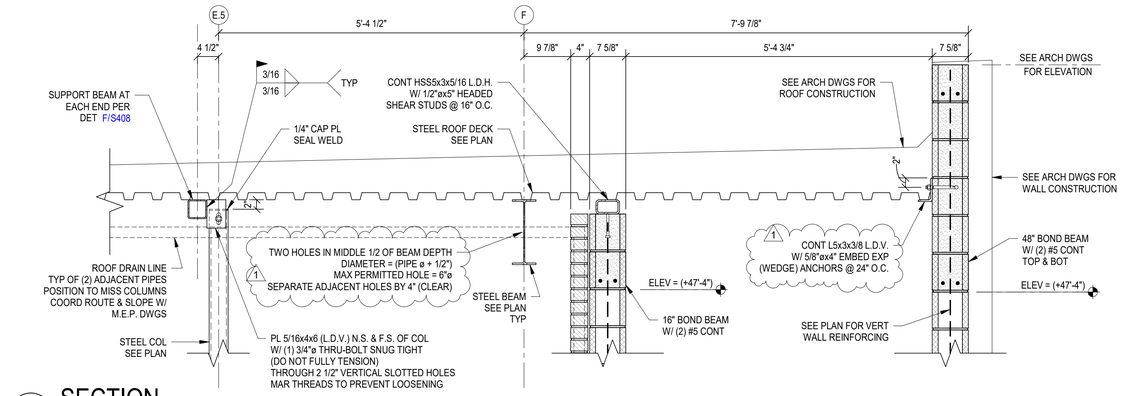
C S408 SECTION

3/4" = 1'-0"



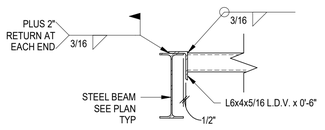
D S408 SECTION

3/4" = 1'-0"



E S408 SECTION

3/4" = 1'-0"



F S408 SECTION

3/4" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE
FRAMING SECTIONS

SCALE (U.N.O.)

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

SEAL
STATE OF KENTUCKY
DAN KUBICAN JR.
20712
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

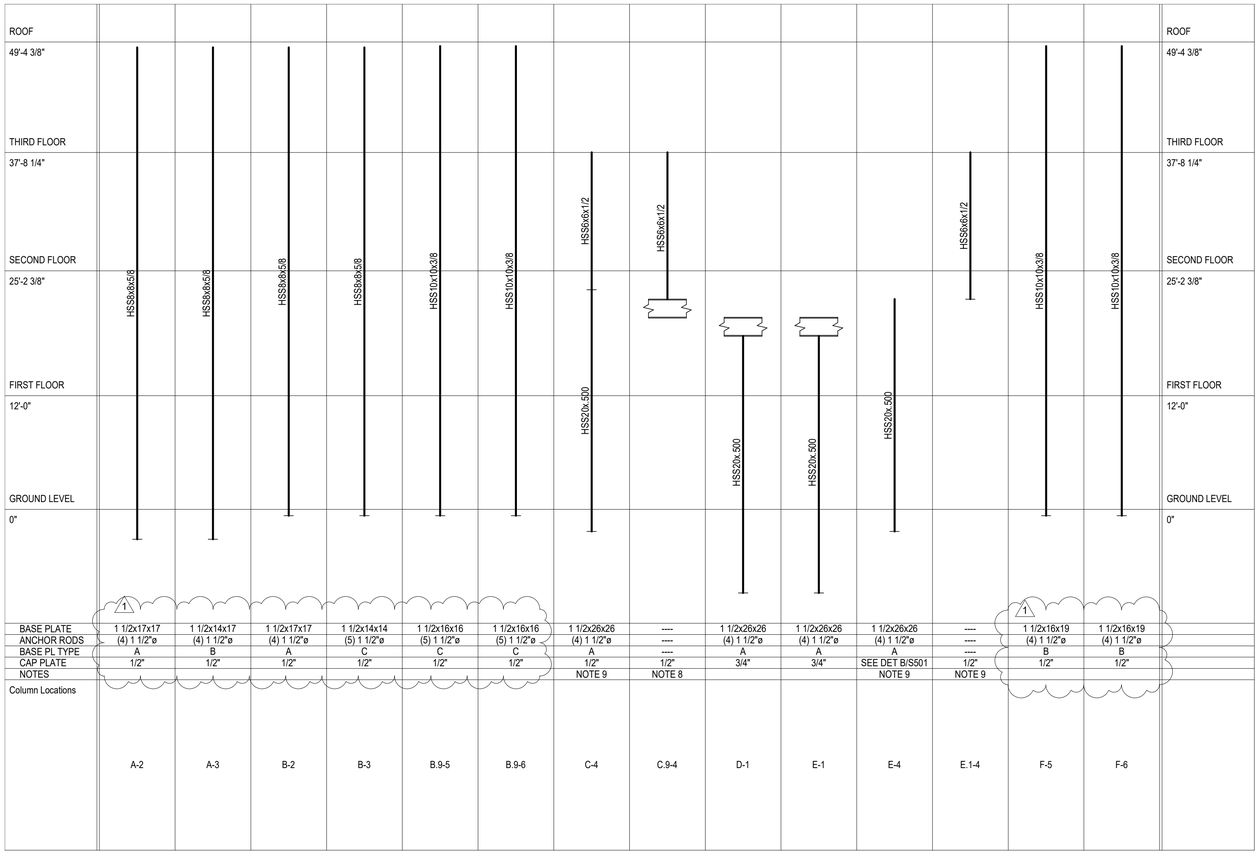
ISSUE DATE
July 02, 2021

JOB. NO.
20266

DWG. NO.
S408

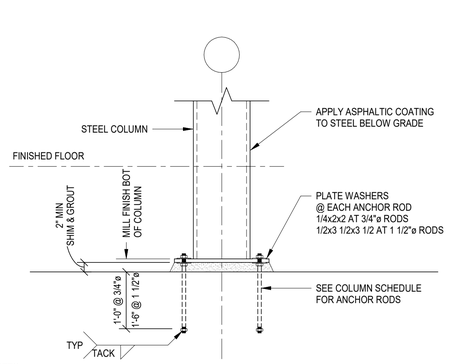
BIM 360://11398-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:28 AM

STEEL COLUMN SCHEDULE

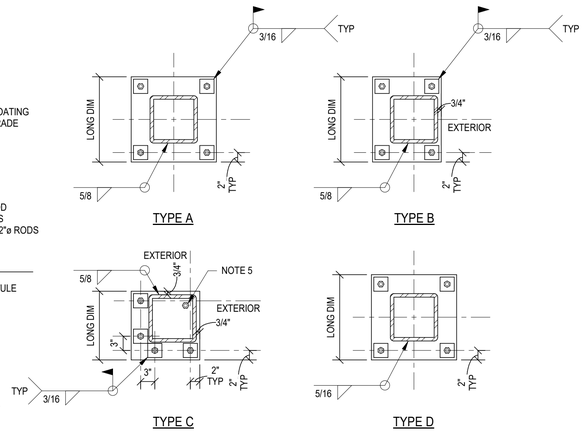


BASE PLATE	1 1/2x17x17	1 1/2x14x17	1 1/2x17x17	1 1/2x14x14	1 1/2x16x16	1 1/2x16x16	1 1/2x26x26	----	1 1/2x26x26	1 1/2x26x26	1 1/2x26x26	----	1 1/2x16x19	1 1/2x16x19
ANCHOR RODS	(4) 1 1/2"ø	(4) 1 1/2"ø	(4) 1 1/2"ø	(5) 1 1/2"ø	(5) 1 1/2"ø	(5) 1 1/2"ø	(4) 1 1/2"ø	----	(4) 1 1/2"ø	(4) 1 1/2"ø	(4) 1 1/2"ø	----	(4) 1 1/2"ø	(4) 1 1/2"ø
BASE PL TYPE	A	B	A	C	C	C	A	----	A	A	A	----	B	B
CAP PLATE	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	SEE DET B/S501	1/2"	1/2"	1/2"
NOTES							NOTE 9	NOTE 8			NOTE 9	NOTE 9		
Column Locations	A-2	A-3	B-2	B-3	B.9-5	B.9-6	C-4	C.9-4	D-1	E-1	E-4	E.1-4	F-5	F-6

COLUMN SCHEDULE NOTES:
1. SEE PLAN FOR TOP OF FOUNDATION OR PIER ELEVATION.
2. SEE DETAIL A/S501 FOR BASE PLATE INFORMATION.
3. CAP PLATES SHALL BE WELDED TO COLUMN WITH ALL-AROUND SEAL WELD U.N.O.
4. WHERE COLUMN EXTENDS TO UNDERSIDE OF ROOF DECK, SLOPE TOP OF COLUMN TO MATCH ROOF DECK SLOPE.
5. COORDINATE BOTTOM OF BASE PLATE ELEVATION WITH SUPPORTING FOUNDATION ELEMENT ELEVATION GIVEN ON PLAN (FOOTING, PIER, PIER CAP, OR GRADE BEAM) & DETAIL A/S501.
6. WHERE TOP OF COLUMN ENDS AT FLOOR LEVEL (SLAB ON DECK CONSTRUCTION) TOP OF COLUMN SHALL MATCH TOP OF ADJACENT STEEL BEAM FRAMING ELEVATION. WHERE TOP OF COLUMN ENDS AT ROOF LEVEL (DECK ON STEEL FRAMING) COORDINATE TOP OF COLUMN ELEVATION WITH ELEVATIONS NOTED ON PLAN & FRAMING SECTIONS.
7. COORDINATE WITH PLANS AND MOMENT CONNECTION SCHEDULE FOR CAP PLATE DIM & PLATE ELEVATION WHERE MOMENT CONNECTION OCCURS AT TOP OF COLUMN.
8. SEE DETAIL G/S401 FOR COLUMN BASE CONNECTION TO SUPPORTING BEAM WHERE NOTED IN SCHEDULE.
9. SEE DETAIL B/S501 FOR CONNECTION BETWEEN COLUMN SEGMENTS WHERE NOTED IN SCHEDULE. CAP PLATE SHOWN IN SCHEDULE IS FOR THE UPPER SEGMENT.

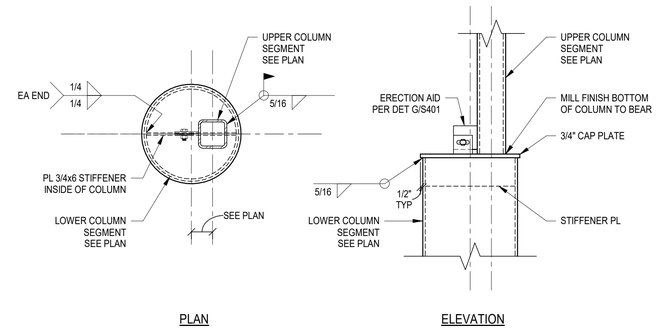


NOTES:
1. GROUT SHALL BE 8,000 P.S.I. NON-SHRINK, NON-METALLIC GROUT.
2. LEVELING PLATES ARE OPTIONAL.
3. ANCHOR RODS SHALL BE ASTM F1554 MATERIAL. ROD WITH NUTS AND WASHERS AS SHOWN. WELD BOTTOM NUT (BELOW) TO ANCHOR ROD PRIOR TO INSTALLING ROD.
4. HOLES IN BASE PLATES SHALL BE 5/16" OVERSIZE UNLESS NOTED OTHERWISE.
5. ANCHOR ROD BELOW COLUMN INTENDED FOR VERTICAL SUPPORT DURING ERECTION ONLY. NO TOP NUT/WASHER NEED BE PROVIDED (BASE PL TYPE C).



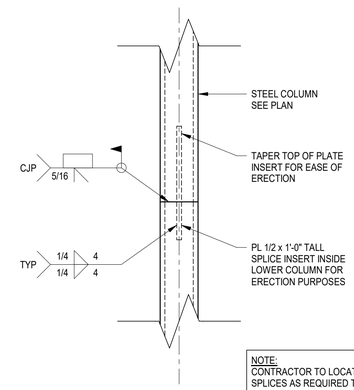
A S501 TYPICAL STEEL COLUMN BASE PLATE SETTING DETAIL

NOT TO SCALE



B S501 TYPICAL UPPER COLUMN CONNECTION TO LOWER COLUMN

NOT TO SCALE



NOTE:
CONTRACTOR TO LOCATE COLUMN SPLICES AS REQUIRED TO INSTALL COLUMNS INSIDE EXISTING BUILDING. KEEP SPLICES AT LEAST 1'-0" AWAY FROM BEAM CONNECTIONS.

C S501 TYPICAL COLUMN SPLICE DETAIL

NOT TO SCALE

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

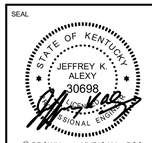
SHEET TITLE: STEEL COLUMN SCHEDULE

SCALE: (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL

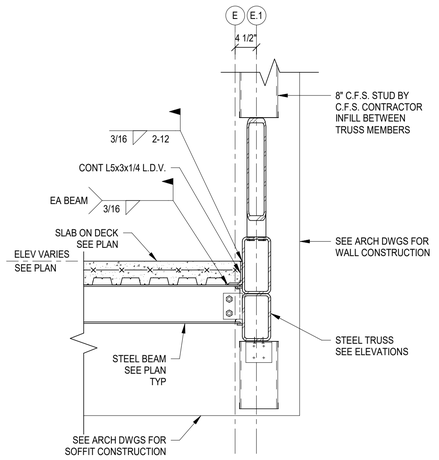


SEAL

ISSUE DATE: July 02, 2021

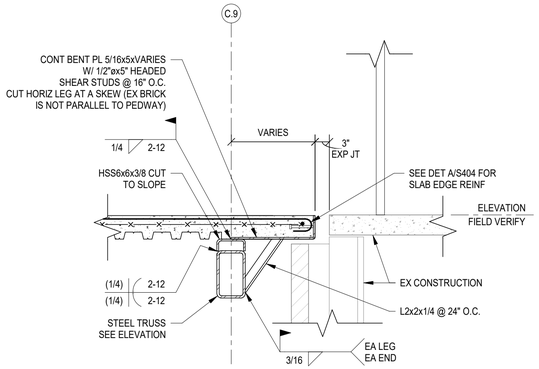
JOB. NO.: 20266

DWG. NO.: S501



A S602 SECTION

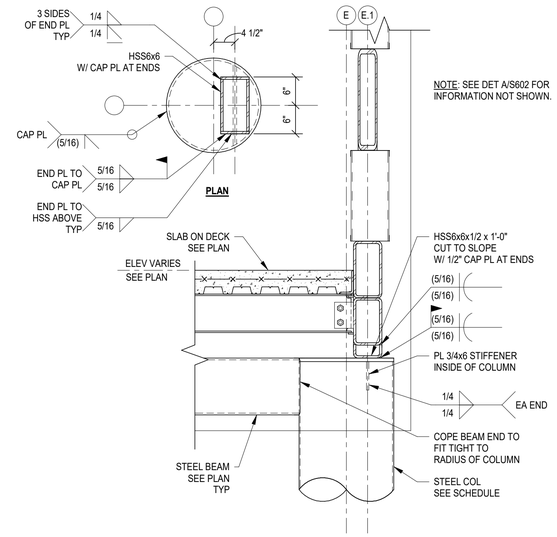
3/4" = 1'-0"



NOTE:
CONTRACTOR SHALL COORDINATE DETAILING OF SLAB EDGE AT EXPANSION JOINT WITH APPROVED EXPANSION JOINT SHOP DRAWINGS AND INCORPORATE RECESS, IF ANY REQUIRED, INTO THE CONCRETE SLAB AND SLAB EDGE STEEL.

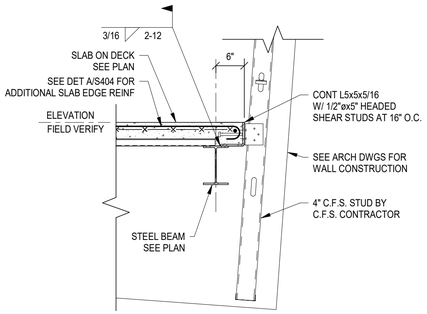
B S602 SECTION

3/4" = 1'-0"



C S602 SECTION

3/4" = 1'-0"

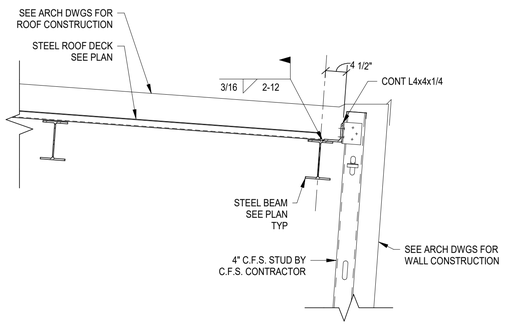


D S602 SECTION

3/4" = 1'-0"

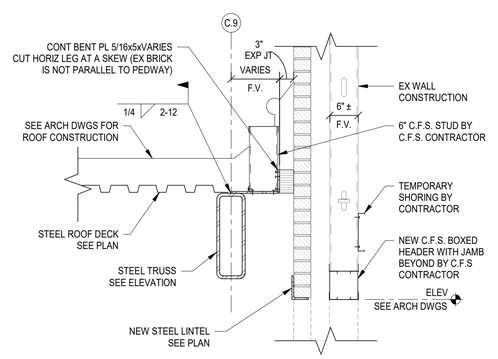
E S602 SECTION

3/4" = 1'-0"



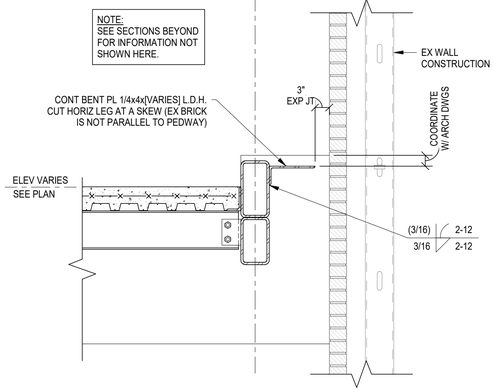
F S602 SECTION

3/4" = 1'-0"



G S602 SECTION

3/4" = 1'-0"



H S602 SECTION

3/4" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE
PEDWAY TRUSS DETAILS

SCALE (U.N.O.)

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

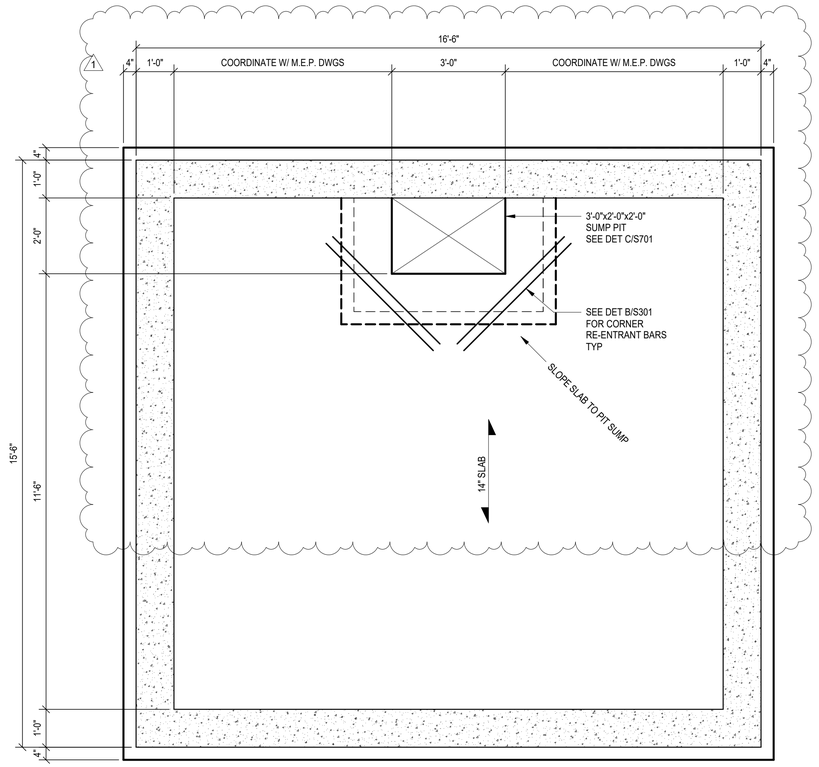
SEAL
STATE OF KENTUCKY
DAN KUBICAN JR.
20712
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

ISSUE DATE
July 02, 2021

JOB. NO.
20266

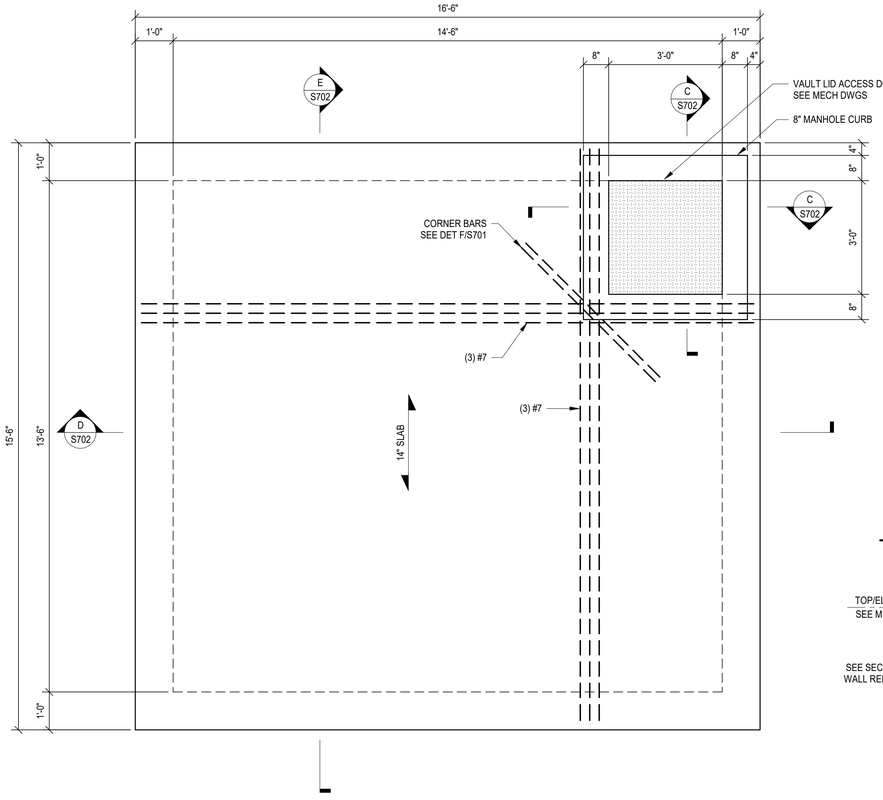
DWG. NO.
S602

BIM 360://11398-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:30 AM



A S702 WEST VAULT BASE PLAN

1/2" = 1'-0"

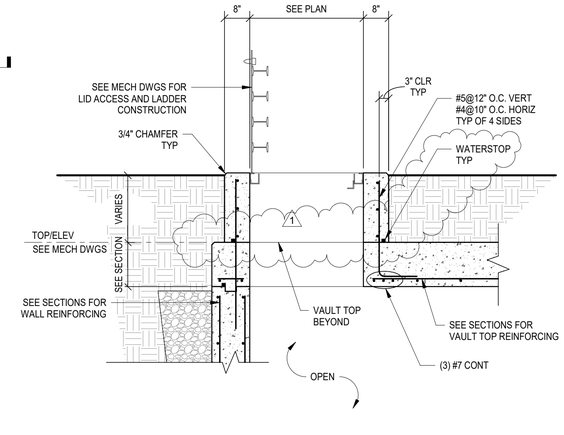


B S702 WEST VAULT TOP PLAN

1/2" = 1'-0"

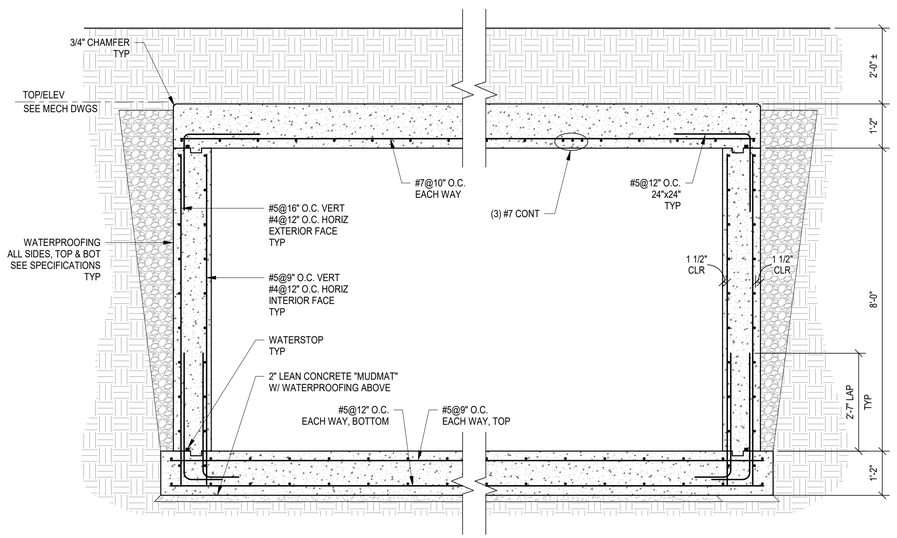
NOTES

1. BACKFILL VAULT EVENLY AROUND ALL SIDES SO THAT GRADE DIFFERS BY NO MORE THAN 2 FEET.
2. VAULT SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS CURED TO ITS MINIMUM 28-DAY COMPRESSIVE STRENGTH. SEE SPECIFICATIONS FOR ALL CONCRETE MINIMUM COMPRESSIVE STRENGTH REQUIREMENTS.
3. OPENINGS AND PENETRATIONS ARE NOT SHOWN FOR CLARITY. SEE MECHANICAL DRAWINGS FOR OPENING AND PENETRATION LOCATIONS AND DETAILS. SLEEVE ALL PENETRATIONS THROUGH WALLS OR SLABS LARGER THAN 10"ø. SEE DETAILS E/S701 & F/S701 FOR REINFORCING AROUND OPENINGS.
4. BEFORE BACKFILL, ALL WALLS MUST BE ADEQUATELY BRACED. DO NOT PLACE BACKFILL AGAINST VAULT WALLS UNTIL VAULT TOP STRUCTURE IS IN PLACE.
5. EXCAVATE BEDROCK, IF ANY, AS REQUIRED TO INSTALL VAULT. THE OWNER AND ENGINEER OF RECORD MAKE NO CLAIM AS TO THE ACTUAL TOP OF ROCK ELEVATION.



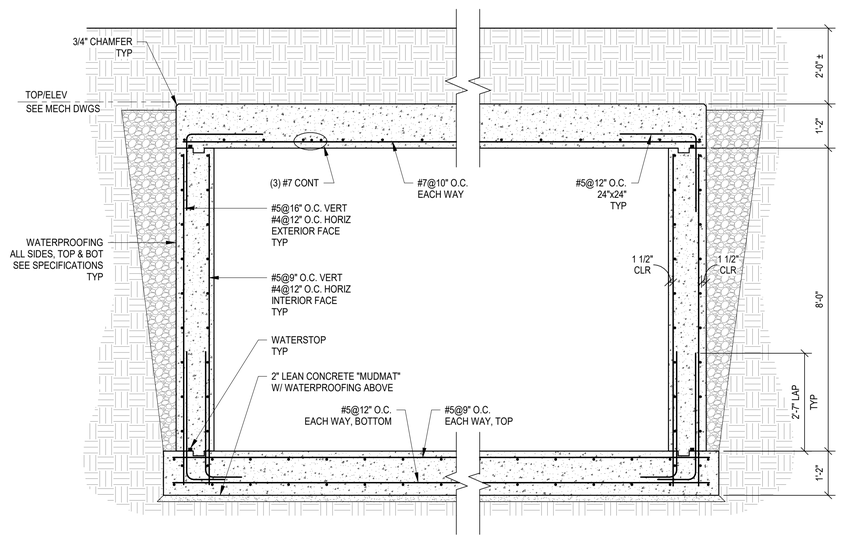
C S702 SECTION

1/2" = 1'-0"



D S702 SECTION

1/2" = 1'-0"



E S702 SECTION

1/2" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE
WEST VAULT PLANS AND SECTIONS

SCALE (U.N.O.)

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER

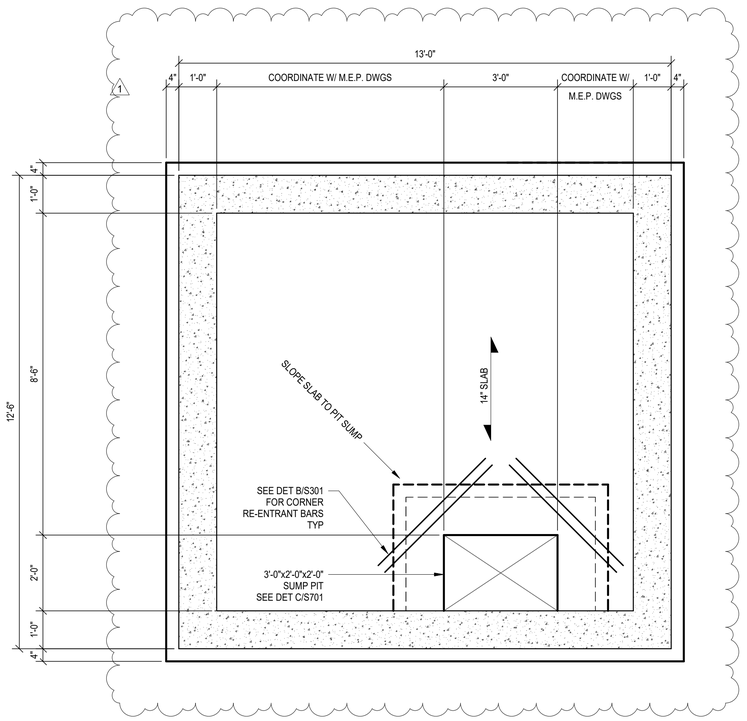
SEAL
STATE OF KENTUCKY
DAN KUBICAN JR.
20712
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE
July 02, 2021

JOB. NO.
20266

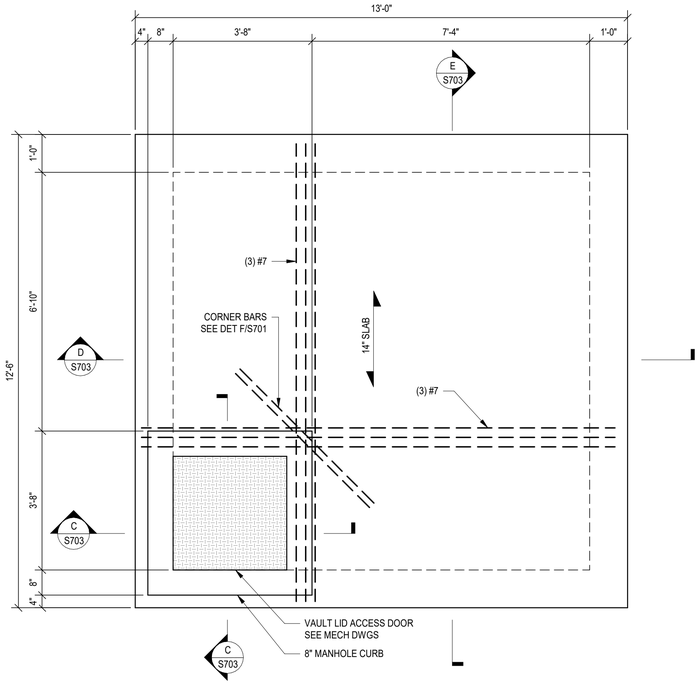
DWG. NO.
S702

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:30 AM



A S703 EAST VAULT BASE PLAN

1/2" = 1'-0"

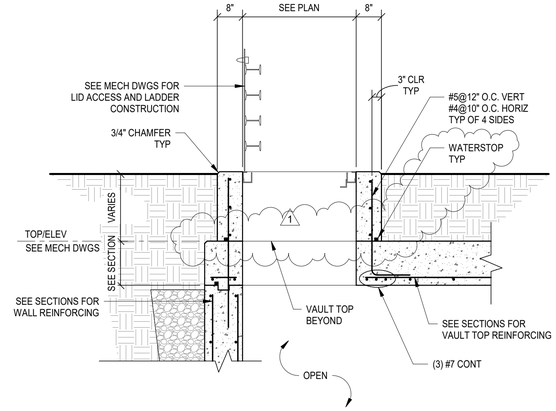


B S703 EAST VAULT TOP PLAN

1/2" = 1'-0"

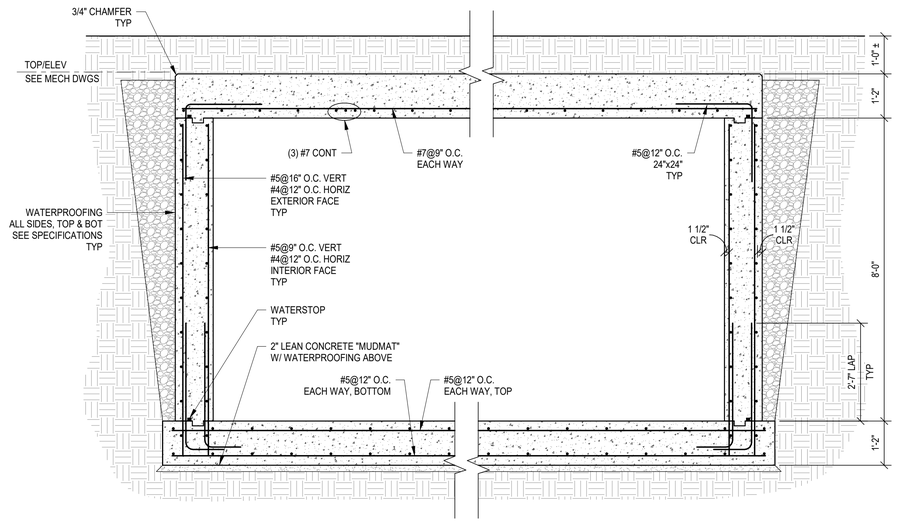
NOTES

1. BACKFILL VAULT EVENLY AROUND ALL SIDES SO THAT GRADE DIFFERS BY NO MORE THAN 2 FEET.
2. VAULT SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS CURED TO ITS MINIMUM 28-DAY COMPRESSIVE STRENGTH. SEE SPECIFICATIONS FOR ALL CONCRETE MINIMUM COMPRESSIVE STRENGTH REQUIREMENTS.
3. OPENINGS AND PENETRATIONS ARE NOT SHOWN FOR CLARITY. SEE MECHANICAL DRAWINGS FOR OPENING AND PENETRATION LOCATIONS AND DETAILS. SLEEVE ALL PENETRATIONS THROUGH WALLS OR SLABS LARGER THAN 10"ø. SEE DETAILS E/S701 & F/S701 FOR REINFORCING AROUND OPENINGS.
4. BEFORE BACKFILL, ALL WALLS MUST BE ADEQUATELY BRACED. DO NOT PLACE BACKFILL AGAINST VAULT WALLS UNTIL VAULT TOP STRUCTURE IS IN PLACE.
5. EXCAVATE BEDROCK, IF ANY, AS REQUIRED TO INSTALL VAULT. THE OWNER AND ENGINEER OF RECORD MAKE NO CLAIM AS TO THE ACTUAL TOP OF ROCK ELEVATION.



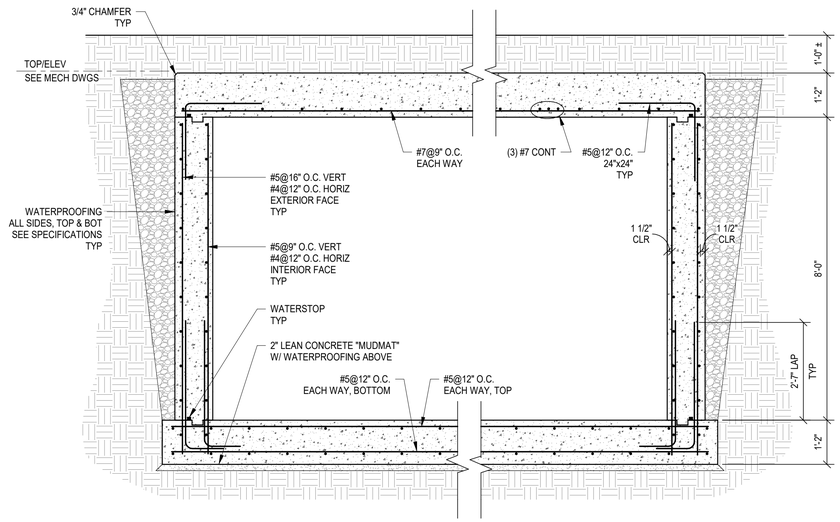
C S703 SECTION

1/2" = 1'-0"



D S703 SECTION

1/2" = 1'-0"



E S703 SECTION

1/2" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

BROWN+KUBICAN
STRUCTURAL ENGINEERS
2224 Young Drive | Lexington, KY 40505
Phone: 859-543-0933 | https://brownkubican.net

SHEET TITLE: EAST VAULT PLANS AND SECTIONS

SCALE: (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

SEAL
STATE OF KENTUCKY
JEFFREY K. ALEXY
30698
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

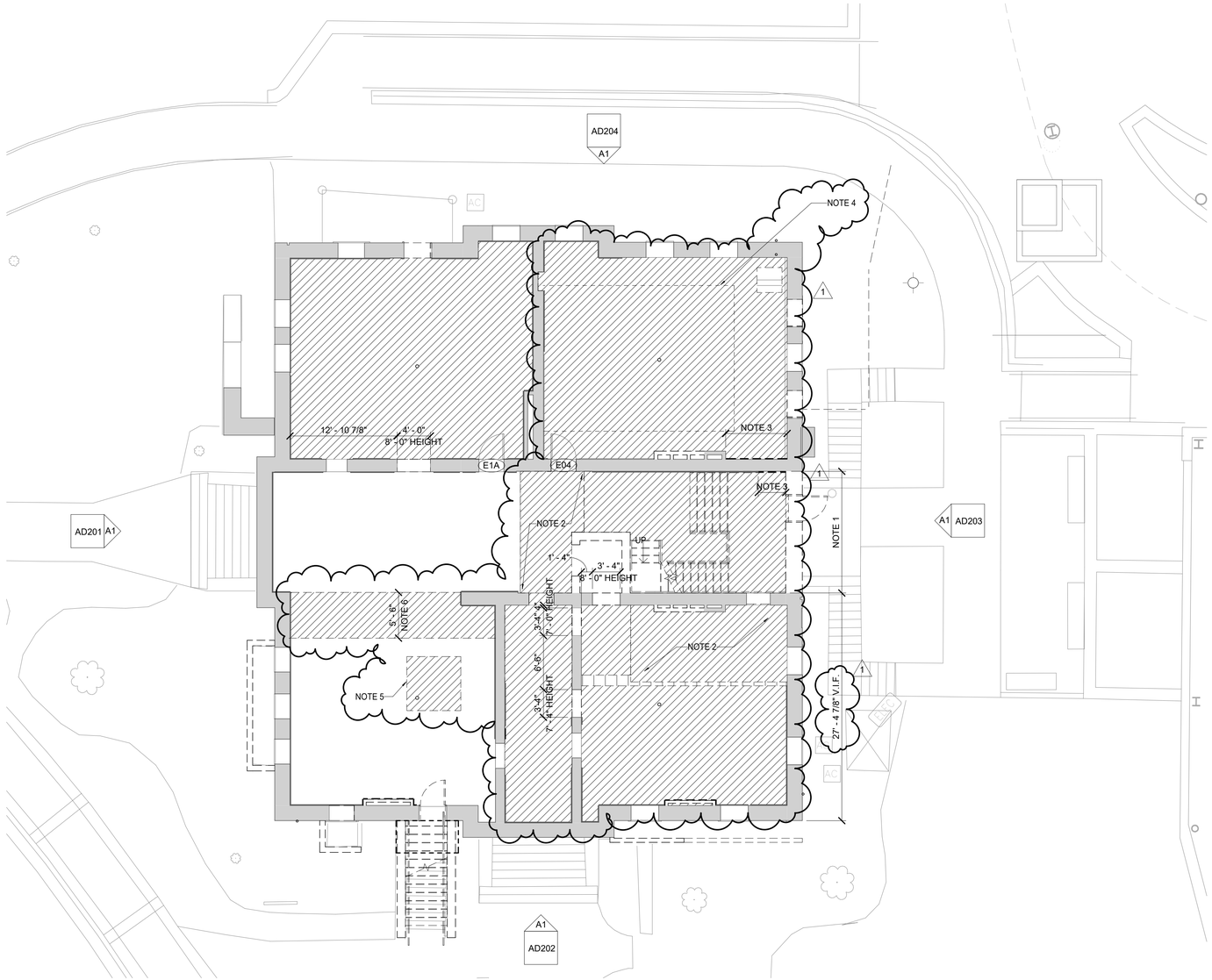
SEAL
STATE OF KENTUCKY
DAN THOMPSON JR.
20712
LICENSED PROFESSIONAL ENGINEER
©BROWN + KUBICAN, PSC

ISSUE DATE: July 02, 2021

JOB. NO.: 20266

DWG. NO.: S703

BIM 360://11396-00 UK Frazee Hall/20266 (Frazee Hall) Structural R21.rvt
7/30/2021 8:33:31 AM



MATERIAL KEYNOTES

02 4250	SELECTIVE DEMOLITION IN HISTORIC STRUCTURE

DEMOLITION LEGEND

INDICATES EXISTING CONSTRUCTION TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS. PATCH, REPAIR, SMOOTH, AND CLEAN ADJACENT FLOORS, WALLS, AND CEILINGS AS REQUIRED TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES.

EXISTING WALLS TO REMAIN

1 FLOOR TO BE REMOVED

GENERAL NOTES

A. ALL PAINT SHALL BE REMOVED FROM EXISTING HISTORIC DOORS DESIGNATED TO REMAIN IN THE PROJECT. PRIOR TO RESTORATION, CONTRACTOR SHALL TAG EACH DOOR AND OPENING WITH DESIGNATED LABEL FOR REINSTALLATION IN ORIGINAL LOCATION.

B. REMOVE INTERIOR STAIR, PATCH AND REPAIR WALL AS NECESSARY. SEE STRUCTURAL FOR BRACING AND SHORING.

C. CUT OPENINGS IN EXISTING LOAD BEARING WALLS FOR DOORS OR PASS-THROUGH ACCESS. SEE NEW WORK DRAWINGS FOR LOCATIONS AND HEIGHTS FOR OPENINGS. SEE STRUCTURAL FOR BRACING AND SUPPORT.

D. REMOVE EXTERIOR CONCRETE STAIR AND RAILING TO LEVEL ONE ENTRANCE AT SOUTHWEST SIDE OF BUILDING.

E. REMOVE STAIR DOWN TO BASEMENT LEVEL AT SOUTHWEST SIDE OF BUILDING. INSTALL ROCK AND DIRT FILL PER GEOTECHNICAL RECOMMENDATIONS. REMOVE DOOR AND PREP OPENING FOR NEW WINDOW.

F. REMOVE PIPE COLUMNS ALL LEVELS. SEE STRUCTURAL FOR BRACING.

G. REMOVE ELEVATOR SHAFT WALLS AND HOIST BEAM. SEE STRUCTURAL FOR BRACING REQUIREMENTS. PIT WALLS AND FOUNDATION TO REMAIN IN PLACE. SEE STRUCTURAL FOR GRAVEL FILL AND NEW SLAB.

H. REMOVE REMAINING MEP ITEMS FROM BUILDING, INCLUDING MECHANICAL PIT.

I. DO NOT REMOVE MORE MATERIAL THAN IS NECESSARY AT ALL TIMES.

J. SEE SPECIFICATION SECTION 02 4250

K. SITE PLAN BACKGROUND IS FROM THE SURVEY CONDUCTED BY STRAND ASSOCIATES ON SEPTEMBER 28, 2020 AND NOVEMBER 19, 2020 AND IS PROVIDED ONLY AS REFERENCE. SEE CIVIL AND LANDSCAPE FOR SITE DEMOLITION IN THIS PHASE AND PREVIOUS SELECTIVE DEMOLITION PHASE.

SHEET SPECIFIC NOTES

1. REMOVE LIMESTONE WALL. SEE STRUCTURAL FOR BRACING REQUIREMENTS.
2. REMOVE CONCRETE TOP AND WOOD FRAMING BELOW.
3. REMOVE HISTORIC TRIM. COORDINATE WITH ARCHITECT DURING DEMOLITION TO VERIFY TRIM TO BE REMOVED VS. SALVAGED. REFER TO MILLWORK AND MISCELLANEOUS REPAIR PLANS FOR REUSE.
4. APPROXIMATE EXTENTS OF UTILITY TUNNEL BELOW FLOOR TO REMAIN.
5. APPROXIMATE EXTENTS OF FLOOR REMOVAL FOR NEW STRUCTURAL PILE. REFER TO STRUCTURAL.
6. APPROXIMATE EXTENTS OF FLOOR REMOVAL FOR NEW PLUMBING. REFER TO PLUMBING.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: GROUND FLOOR DEMOLITION PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Greve REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

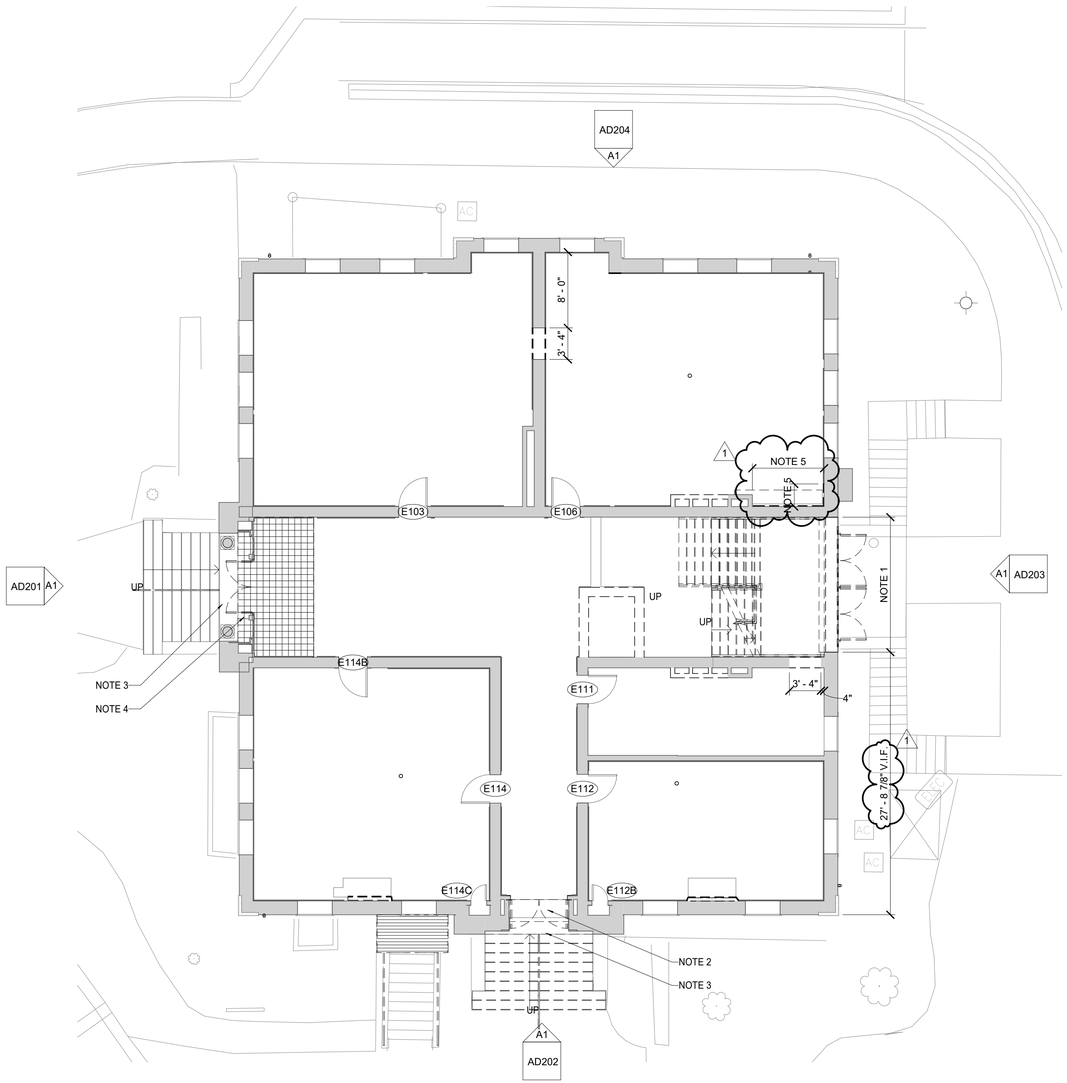
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: AD100

A1 GROUND FLOOR DEMOLITION PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/30/2021 12:39:30 PM



MATERIAL KEYNOTES

02 42 50	SELECTIVE DEMOLITION IN HISTORIC STRUCTURES

DEMOLITION LEGEND

INDICATES EXISTING CONSTRUCTION TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS. PATCH, REPAIR, SMOOTH, AND CLEAN ADJACENT FLOORS, WALLS, AND CEILINGS AS REQUIRED TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES.

EXISTING WALLS TO REMAIN

1 FLOOR TO BE REMOVED

GENERAL NOTES

A. ALL PAINT SHALL BE REMOVED FROM EXISTING HISTORIC DOORS DESIGNATED TO REMAIN IN THE PROJECT. PRIOR TO RESTORATION, CONTRACTOR SHALL TAG EACH DOOR AND OPENING WITH DESIGNATED LABEL FOR REINSTALLATION IN ORIGINAL LOCATION.

B. REMOVE INTERIOR STAIR, PATCH AND REPAIR WALL AS NECESSARY. SEE STRUCTURAL FOR BRACING AND SHORING.

C. CUT OPENINGS IN EXISTING LOAD BEARING WALLS FOR DOORS OR PASS-THROUGH ACCESS. SEE NEW WORK DRAWINGS FOR LOCATIONS AND HEIGHTS FOR OPENINGS. SEE STRUCTURAL FOR BRACING AND SUPPORT.

D. REMOVE EXTERIOR CONCRETE STAIR AND RAILING TO LEVEL ONE ENTRANCE AT SOUTHWEST SIDE OF BUILDING.

E. REMOVE STAIR DOWN TO BASEMENT LEVEL AT SOUTHWEST SIDE OF BUILDING. INSTALL ROCK AND DIRT FILL PER GEOTECHNICAL RECOMMENDATIONS. REMOVE DOOR AND PREP OPENING FOR NEW WINDOW.

F. REMOVE PIPE COLUMNS ALL LEVELS. SEE STRUCTURAL FOR BRACING.

G. REMOVE ELEVATOR SHAFT WALLS AND HOIST BEAM. SEE STRUCTURAL FOR BRACING REQUIREMENTS. PIT WALLS AND FOUNDATION TO REMAIN IN PLACE. SEE STRUCTURAL FOR GRAVEL FILL AND NEW SLAB.

H. REMOVE REMAINING MEP ITEMS FROM BUILDING, INCLUDING MECHANICAL PIT.

I. DO NOT REMOVE MORE MATERIAL THAN IS NECESSARY AT ALL TIMES.

J. SEE SPECIFICATION SECTION 02 4250

K. SITE PLAN BACKGROUND IS FROM THE SURVEY CONDUCTED BY STRAND ASSOCIATES ON SEPTEMBER 28, 2020 AND NOVEMBER 19, 2020 AND IS PROVIDED ONLY AS REFERENCE. SEE CIVIL AND LANDSCAPE FOR SITE DEMOLITION IN THIS PHASE AND PREVIOUS SELECTIVE DEMOLITION PHASE.

SHEET SPECIFIC NOTES

1. REMOVE BRICK WALL. SEE STRUCTURAL FOR BRACING AND SHORING REQUIREMENTS.
2. REMOVE CONCRETE FROM TOP OF FRAMING.
3. LIMESTONE THRESHOLD TO REMAIN. PROTECT DURING CONSTRUCTION.
4. REMOVE TILE, FLOOR DRAIN AND CONCRETE FROM TOP OF FRAMING.
5. REMOVE HISTORIC TRIM. COORDINATE WITH ARCHITECT DURING DEMOLITION TO VERIFY TRIM TO BE REMOVED VS. SALVAGED. REFER TO MILLWORK AND MISCELLANEOUS REPAIR PLANS FOR REUSE.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: FIRST FLOOR DEMOLITION PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky 2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

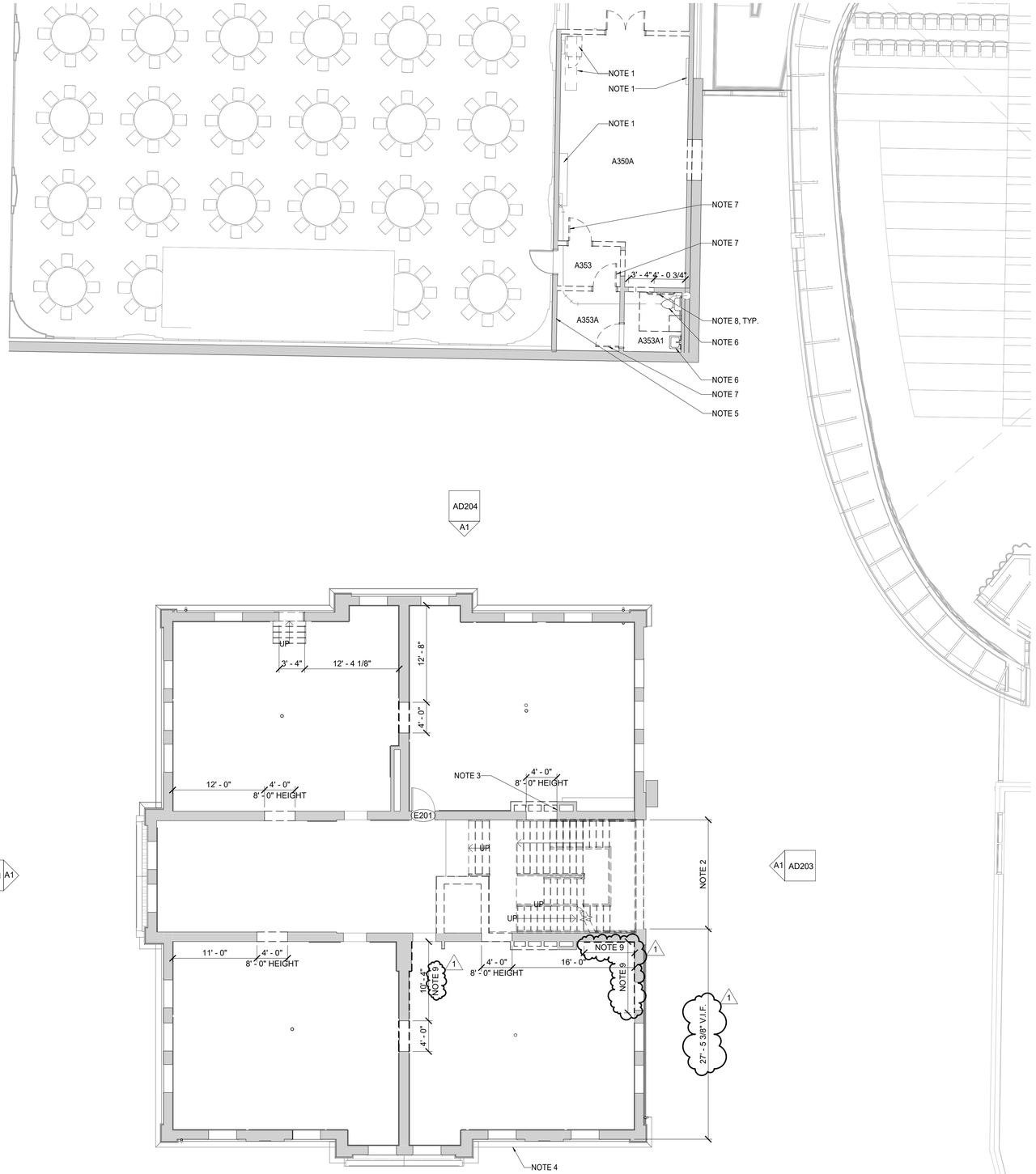
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: AD101

A1 FIRST FLOOR DEMOLITION PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:35 PM



MATERIAL KEYNOTES

02 42 50 SELECTIVE DEMOLITION IN HISTORIC STRUCTURES

DEMOLITION LEGEND

INDICATES EXISTING CONSTRUCTION TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS. PATCH, REPAIR, SMOOTH, AND CLEAN ADJACENT FLOORS, WALLS, AND CEILINGS AS REQUIRED TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES.

EXISTING WALLS TO REMAIN

1 FLOOR TO BE REMOVED

GENERAL NOTES

A. ALL PAINT SHALL BE REMOVED FROM EXISTING HISTORIC DOORS DESIGNATED TO REMAIN IN THE PROJECT. PRIOR TO RESTORATION, CONTRACTOR SHALL TAG EACH DOOR AND OPENING WITH DESIGNATED LABEL FOR REINSTALLATION IN ORIGINAL LOCATION.

B. REMOVE INTERIOR STAIR, PATCH AND REPAIR WALL AS NECESSARY. SEE STRUCTURAL FOR BRACING AND SHORING.

C. CUT OPENINGS IN EXISTING LOAD BEARING WALLS FOR DOORS OR PASS-THROUGH ACCESS. SEE NEW WORK DRAWINGS FOR LOCATIONS AND HEIGHTS FOR OPENINGS. SEE STRUCTURAL FOR BRACING AND SUPPORT.

D. REMOVE EXTERIOR CONCRETE STAIR AND RAILING TO LEVEL ONE ENTRANCE AT SOUTHWEST SIDE OF BUILDING.

E. REMOVE STAIR DOWN TO BASEMENT LEVEL AT SOUTHWEST SIDE OF BUILDING. INSTALL ROCK AND DIRT FILL PER GEOTECHNICAL RECOMMENDATIONS. REMOVE DOOR AND PREP OPENING FOR NEW WINDOW.

F. REMOVE PIPE COLUMNS ALL LEVELS. SEE STRUCTURAL FOR BRACING.

G. REMOVE ELEVATOR SHAFT WALLS AND HOIST BEAM. SEE STRUCTURAL FOR BRACING REQUIREMENTS. PIT WALLS AND FOUNDATION TO REMAIN IN PLACE. SEE STRUCTURAL FOR GRAVEL FILL AND NEW SLAB.

H. REMOVE REMAINING MEP ITEMS FROM BUILDING, INCLUDING MECHANICAL PIT.

I. DO NOT REMOVE MORE MATERIAL THAN IS NECESSARY AT ALL TIMES.

J. SEE SPECIFICATION SECTION 02 4250

K. SITE PLAN BACKGROUND IS FROM THE SURVEY CONDUCTED BY STRAND ASSOCIATES ON SEPTEMBER 28, 2020 AND NOVEMBER 19, 2020 AND IS PROVIDED ONLY AS REFERENCE. SEE CIVIL AND LANDSCAPE FOR SITE DEMOLITION IN THIS PHASE AND PREVIOUS SELECTIVE DEMOLITION PHASE.

SHEET SPECIFIC NOTES

1. EXISTING ELECTRICAL AND A / V EQUIPMENT TO REMAIN. PROTECT DURING DEMOLITION.
2. REMOVE BRICK WALL. SEE STRUCTURAL FOR BRACING REQUIREMENTS.
3. ALIGN OPENING WITH FACE OF ADJACENT BEARING WALL..
4. REMOVE AND SALVAGE COPPER AT TOP OF CORNICE.
5. MONITOR TO BE REUSED IN RELOCATED GREEN ROOM. REMOVE AND PROTECT DURING CONSTRUCTION. SEE NEW WORK DRAWINGS FOR LOCATION.
6. PLUMBING FIXTURE TO BE REUSED IN TOILET ROOM. REMOVE AND PROTECT DURING CONSTRUCTION. SEE NEW WORK DRAWINGS FOR LOCATION.
7. DOORS AND DOOR HARDWARE TO BE REUSED IN NEW LAYOUT. REMOVE AND DISCARD DOOR FRAMES. SEE NEW WORK DRAWINGS FOR DOOR LOCATION AND DOOR SCHEDULE FOR REUSED DOORS AND HARDWARE.
8. REMOVE ALL TOILET ROOM ACCESSORIES AND STORE. REINSTALL IN NEW LOCATIONS. SEE A629 FOR LOCATIONS.
9. REMOVE HISTORIC TRIM. COORDINATE WITH ARCHITECT DURING DEMOLITION TO VERIFY TRIM TO BE REMOVED VS. SALVAGED. REFER TO MILLWORK AND MISCELLANEOUS REPAIR PLANS FOR REUSE.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: SECOND FLOOR DEMOLITION PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

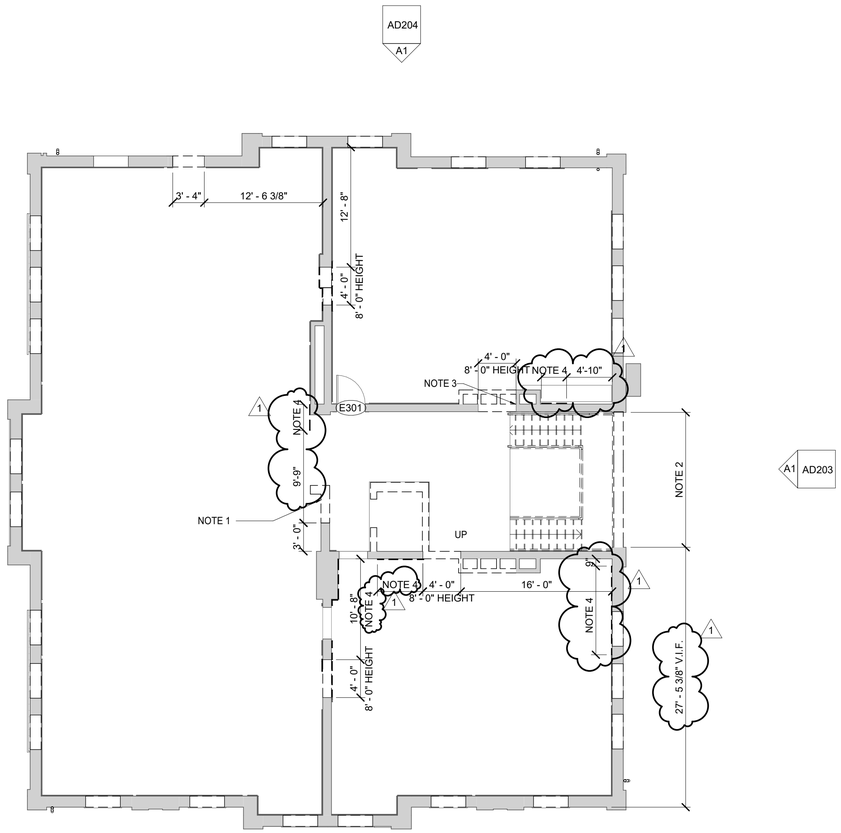
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: AD102

A1 SECOND FLOOR DEMOLITION PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:41 PM



MATERIAL KEYNOTES

02 42 50	SELECTIVE DEMOLITION IN HISTORIC STRUCTURES

DEMOLITION LEGEND

INDICATES EXISTING CONSTRUCTION TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS. PATCH, REPAIR, SMOOTH, AND CLEAN ADJACENT FLOORS, WALLS, AND CEILINGS AS REQUIRED TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES.

EXISTING WALLS TO REMAIN

1 FLOOR TO BE REMOVED

GENERAL NOTES

A. ALL PAINT SHALL BE REMOVED FROM EXISTING HISTORIC DOORS DESIGNATED TO REMAIN IN THE PROJECT. PRIOR TO RESTORATION, CONTRACTOR SHALL TAG EACH DOOR AND OPENING WITH DESIGNATED LABEL FOR REINSTALLATION IN ORIGINAL LOCATION.

B. REMOVE INTERIOR STAIR, PATCH AND REPAIR WALL AS NECESSARY. SEE STRUCTURAL FOR BRACING AND SHORING.

C. CUT OPENINGS IN EXISTING LOAD BEARING WALLS FOR DOORS OR PASS-THROUGH ACCESS. SEE NEW WORK DRAWINGS FOR LOCATIONS AND HEIGHTS FOR OPENINGS. SEE STRUCTURAL FOR BRACING AND SUPPORT.

D. REMOVE EXTERIOR CONCRETE STAIR AND RAILING TO LEVEL ONE ENTRANCE AT SOUTHWEST SIDE OF BUILDING.

E. REMOVE STAIR DOWN TO BASEMENT LEVEL AT SOUTHWEST SIDE OF BUILDING. INSTALL ROCK AND DIRT FILL PER GEOTECHNICAL RECOMMENDATIONS. REMOVE DOOR AND PREP OPENING FOR NEW WINDOW.

F. REMOVE PIPE COLUMNS ALL LEVELS. SEE STRUCTURAL FOR BRACING.

G. REMOVE ELEVATOR SHAFT WALLS AND HOIST BEAM. SEE STRUCTURAL FOR BRACING REQUIREMENTS. PIT WALLS AND FOUNDATION TO REMAIN IN PLACE. SEE STRUCTURAL FOR GRAVEL FILL AND NEW SLAB.

H. REMOVE REMAINING MEP ITEMS FROM BUILDING, INCLUDING MECHANICAL PIT.

I. DO NOT REMOVE MORE MATERIAL THAN IS NECESSARY AT ALL TIMES.

J. SEE SPECIFICATION SECTION 02 4250

K. SITE PLAN BACKGROUND IS FROM THE SURVEY CONDUCTED BY STRAND ASSOCIATES ON SEPTEMBER 28, 2020 AND NOVEMBER 19, 2020 AND IS PROVIDED ONLY AS REFERENCE. SEE CIVIL AND LANDSCAPE FOR SITE DEMOLITION IN THIS PHASE AND PREVIOUS SELECTIVE DEMOLITION PHASE.

SHEET SPECIFIC NOTES

1. REMOVE PORTION OF WALL.
2. REMOVE BRICK WALL. SEE STRUCTURAL FOR BRACING REQUIREMENTS.
3. ALIGN OPENING WITH FACE OF ADJACENT BEARING WALL.
4. REMOVE HISTORIC TRIM. COORDINATE WITH ARCHITECT DURING DEMOLITION TO VERIFY TRIM TO BE REMOVED V/S. SALVAGED. REFER TO MILLWORK AND MISCELLANEOUS REPAIR PLANS FOR REUSE.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: THIRD FLOOR DEMOLITION PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO. 7292
COMMONWEALTH OF KENTUCKY
ARCHITECT

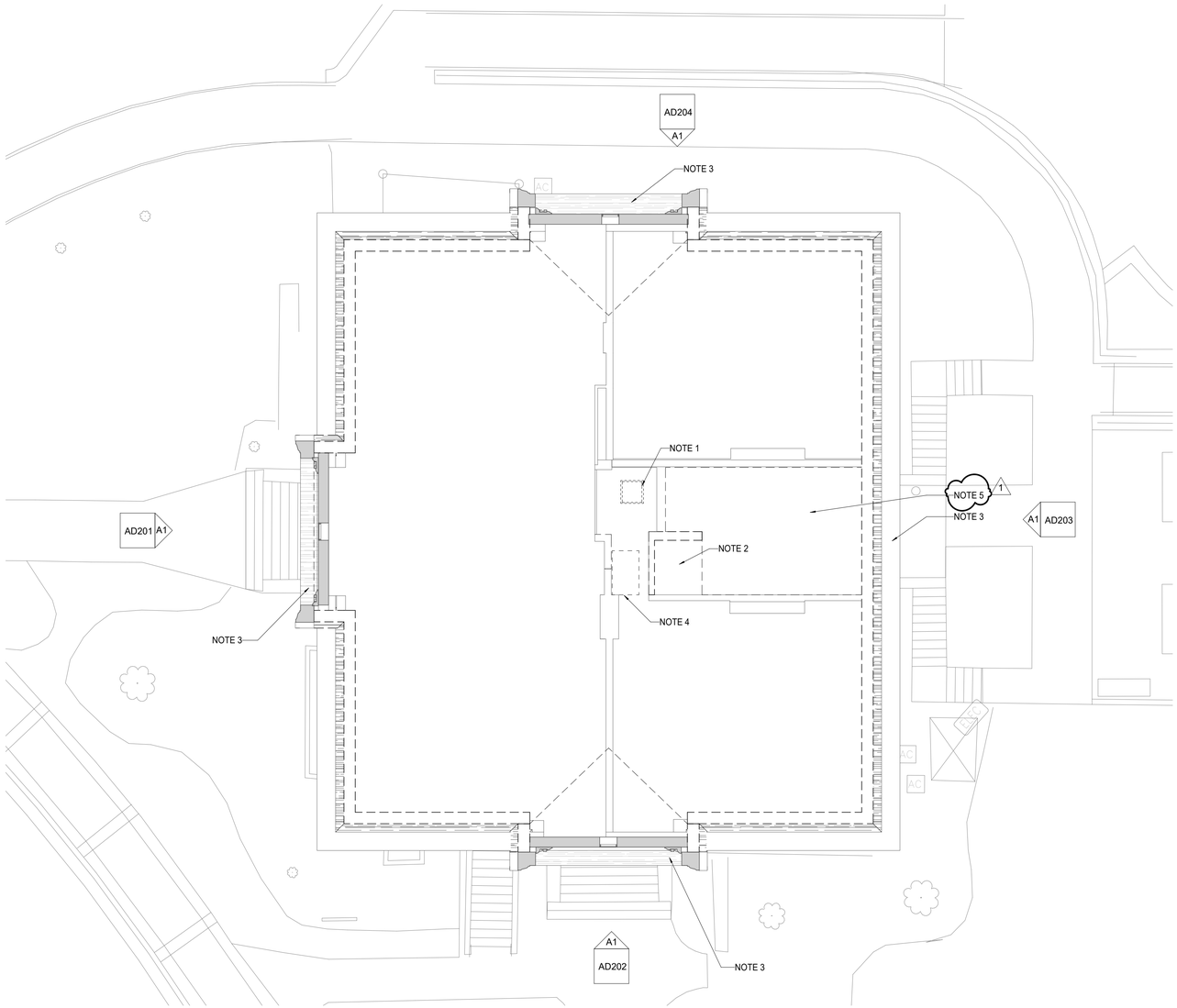
ISSUE DATE: July 02, 2021

JOB. NO. 11396-00

DWG. NO. AD103

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:43 PM

A1 THIRD FLOOR DEMOLITION PLAN



MATERIAL KEYNOTES

02 42 50	SELECTIVE DEMOLITION IN HISTORIC STRUCTURES

DEMOLITION LEGEND

INDICATES EXISTING CONSTRUCTION TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS. PATCH, REPAIR, SMOOTH, AND CLEAN ADJACENT FLOORS, WALLS, AND CEILINGS AS REQUIRED TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES.

EXISTING WALLS TO REMAIN

FLOOR TO BE REMOVED

GENERAL NOTES

A. ALL PAINT SHALL BE REMOVED FROM EXISTING HISTORIC DOORS DESIGNATED TO REMAIN IN THE PROJECT. PRIOR TO RESTORATION, CONTRACTOR SHALL TAG EACH DOOR AND OPENING WITH DESIGNATED LABEL FOR REINSTALLATION IN ORIGINAL LOCATION.

B. REMOVE INTERIOR STAIR, PATCH AND REPAIR WALL AS NECESSARY. SEE STRUCTURAL FOR BRACING AND SHORING.

C. CUT OPENINGS IN EXISTING LOAD BEARING WALLS FOR DOORS OR PASS-THROUGH ACCESS. SEE NEW WORK DRAWINGS FOR LOCATIONS AND HEIGHTS FOR OPENINGS. SEE STRUCTURAL FOR BRACING AND SUPPORT.

D. REMOVE EXTERIOR CONCRETE STAIR AND RAILING TO LEVEL ONE ENTRANCE AT SOUTHWEST SIDE OF BUILDING.

E. REMOVE STAIR DOWN TO BASEMENT LEVEL AT SOUTHWEST SIDE OF BUILDING. INSTALL ROCK AND DIRT FILL PER GEOTECHNICAL RECOMMENDATIONS. REMOVE DOOR AND PREP OPENING FOR NEW WINDOW.

F. REMOVE PIPE COLUMNS ALL LEVELS. SEE STRUCTURAL FOR BRACING.

G. REMOVE ELEVATOR SHAFT WALLS AND HOIST BEAM. SEE STRUCTURAL FOR BRACING REQUIREMENTS. PIT WALLS AND FOUNDATION TO REMAIN IN PLACE. SEE STRUCTURAL FOR GRAVEL FILL AND NEW SLAB.

H. REMOVE REMAINING MEP ITEMS FROM BUILDING, INCLUDING MECHANICAL PIT.

I. DO NOT REMOVE MORE MATERIAL THAN IS NECESSARY AT ALL TIMES.

J. SEE SPECIFICATION SECTION 02 4250

K. SITE PLAN BACKGROUND IS FROM THE SURVEY CONDUCTED BY STRAND ASSOCIATES ON SEPTEMBER 28, 2020 AND NOVEMBER 19, 2020 AND IS PROVIDED ONLY AS REFERENCE. SEE CIVIL AND LANDSCAPE FOR SITE DEMOLITION IN THIS PHASE AND PREVIOUS SELECTIVE DEMOLITION PHASE.

SHEET SPECIFIC NOTES

1. REMOVE ATTIC ACCESS HATCH.
2. REMOVE ELEVATOR SHAFT. SEE STRUCTURAL FOR BRACING AND ROOF SUPPORT.
3. REMOVE AND SALVAGE COPPER AT TOP OF CORNICE.
4. OPENING FOR NEW ATTIC ACCESS HATCH. SEE STRUCTURAL.
5. REMOVE PLASTEER AND LATHE AT EXISTING CEILING.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: ATTIC FLOOR DEMOLITION PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky 2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

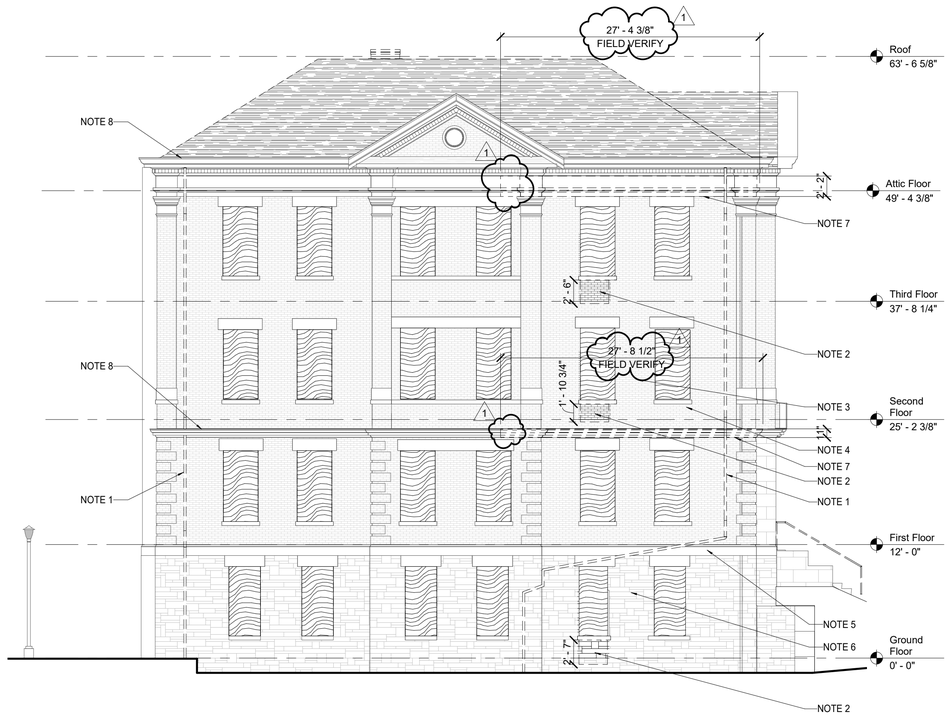
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: AD104

A1 ATTIC FLOOR DEMOLITION PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:44 PM



MATERIAL KEYNOTES

02 42 50	SELECTIVE DEMOLITION IN HISTORIC STRUCTURES

DEMOLITION LEGEND

- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- SECURE WEATHER TIGHT COVERING AT ALL WINDOWS REMOVED DURING SELECTIVE DEMOLITION PHASE

GENERAL NOTES

A. PROTECT ALL REMAINING GLAZING OF BUILDING NOTED AS EXISTING TO REMAIN (ETR).

B. REMOVE EXTERIOR BRICK TRIM MOLD AT WINDOW OPENINGS.

C. SEE SPECIFICATION SECTION 02 4250

SHEET SPECIFIC NOTES

1. REMOVE DOWNSPOUTS.
2. REMOVE PORTION OF WALL TO PREP FOR NEW DOOR.
3. FIRE ESCAPE REMOVED DURING PREVIOUS SELECTIVE DEMOLITION PHASE. APPROXIMATELY 19 ANCHORS REMAIN IN BRICK. TO REMOVE ANCHORS, STRIKE MORTAR JOINTS AROUND BRICK TO REMOVE FACE BRICK AND REMOVE PORTION OF INTERIOR PLASTER TO FULLY REMOVE ANCHOR FROM WALL. REPLACE WITH NEW BRICK AND REPOINT MORTAR JOINTS. SEE SPECIFICATION 04 0920.
4. FIRE ESCAPE REMOVED DURING PREVIOUS SELECTIVE DEMOLITION PHASE. APPROXIMATELY 17 LOCATIONS WHERE ANCHORS WERE REMOVED FROM WALL AND HOLES REMAIN. TO REPAIR HOLES, STRIKE MORTAR JOINT AROUND BRICK TO REMOVE FACE BRICK. REPLACE WITH NEW BRICK AND REPOINT MORTAR JOINTS. SEE SPECIFICATION 04 0920.
5. FIRE ESCAPE REMOVED DURING PREVIOUS SELECTIVE DEMOLITION PHASE. APPROXIMATELY 4 LOCATIONS WHERE ANCHORS WERE REMOVED FROM LIMESTONE BAND AND HOLES REMAIN. USE JAHN MORTAR PATCH REPAIR AT LIMESTONE. SEE SPECIFICATION 04 0920.
6. FIRE ESCAPE REMOVED DURING PREVIOUS SELECTIVE DEMOLITION PHASE. A SECTION OF STAIR BRACKET REMAINS IN LIMESTONE. REMOVE SECTION FROM WALL. USE JAHN MORTAR PATCH REPAIR AT LIMESTONE. SEE SPECIFICATION 04 0920.
7. REMOVE AND SALVAGE PORTION OF CORNICE.
8. REMOVE AND SALVAGE COPPER AT TOP OF CORNICE.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: NORTHEAST DEMOLTION ELEVATION

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7288
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

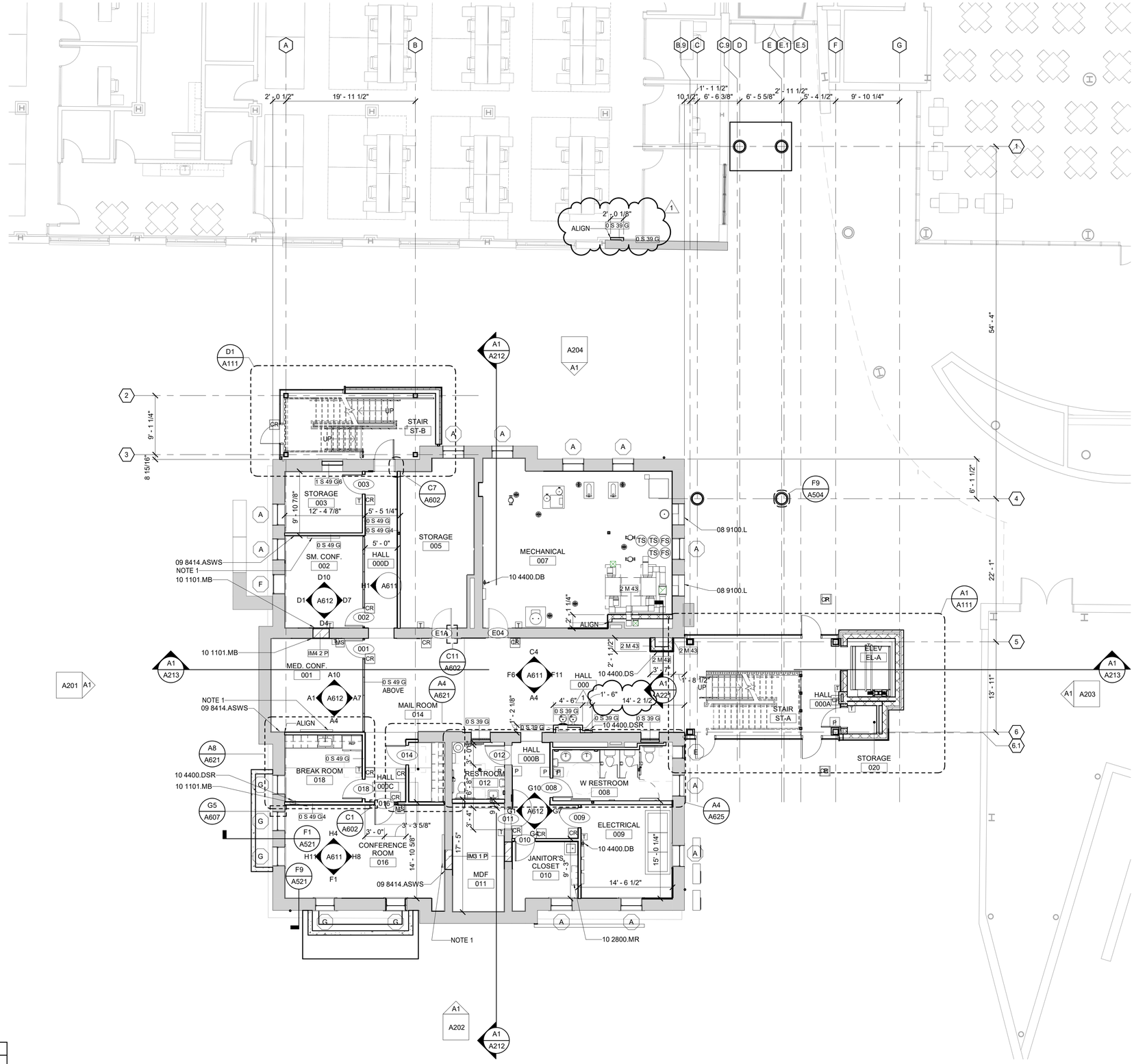
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: AD204

A1 EXISTING NORTHEAST ELEVATION

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:48 PM



MATERIAL KEYNOTES

08 9100.L	LOUVER
09 8414.ASWS	ACOUSTIC STRETCHED-FABRIC WALL SYSTEMS
10 1101.MB	MARKERBOARD
10 2800.MR	MOP AND BROOM RACK
10 4400.DB	DRY CHEMICAL FE AND BRACKET
10 4400.DS	DRY CHEMICAL FE AND SURFACE CABINET
10 4400.DSR	DRY CHEMICAL FE AND SEMI-RECESSED CABINET

NEW WORK LEGEND

CR	CARD READER
P	DOOR PUSH BUTTON

GENERAL NOTES

1 A. ALL NEW INTERIOR WALL TYPES **0 S 40 G** U.N.O.
B. REFER TO STRUCTURAL FOR NEW GROUND FLOOR SLAB ON GRADE EXTENTS AND LOCATION.

SHEET SPECIFIC NOTES

1. NEW MONITOR

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE: GROUND FLOOR - PLAN

SCALE (U.N.O.): 1/16" = 1'-0"

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Gravel, REGISTERED NO. 7298, COMMONWEALTH OF KENTUCKY, ARCHITECT

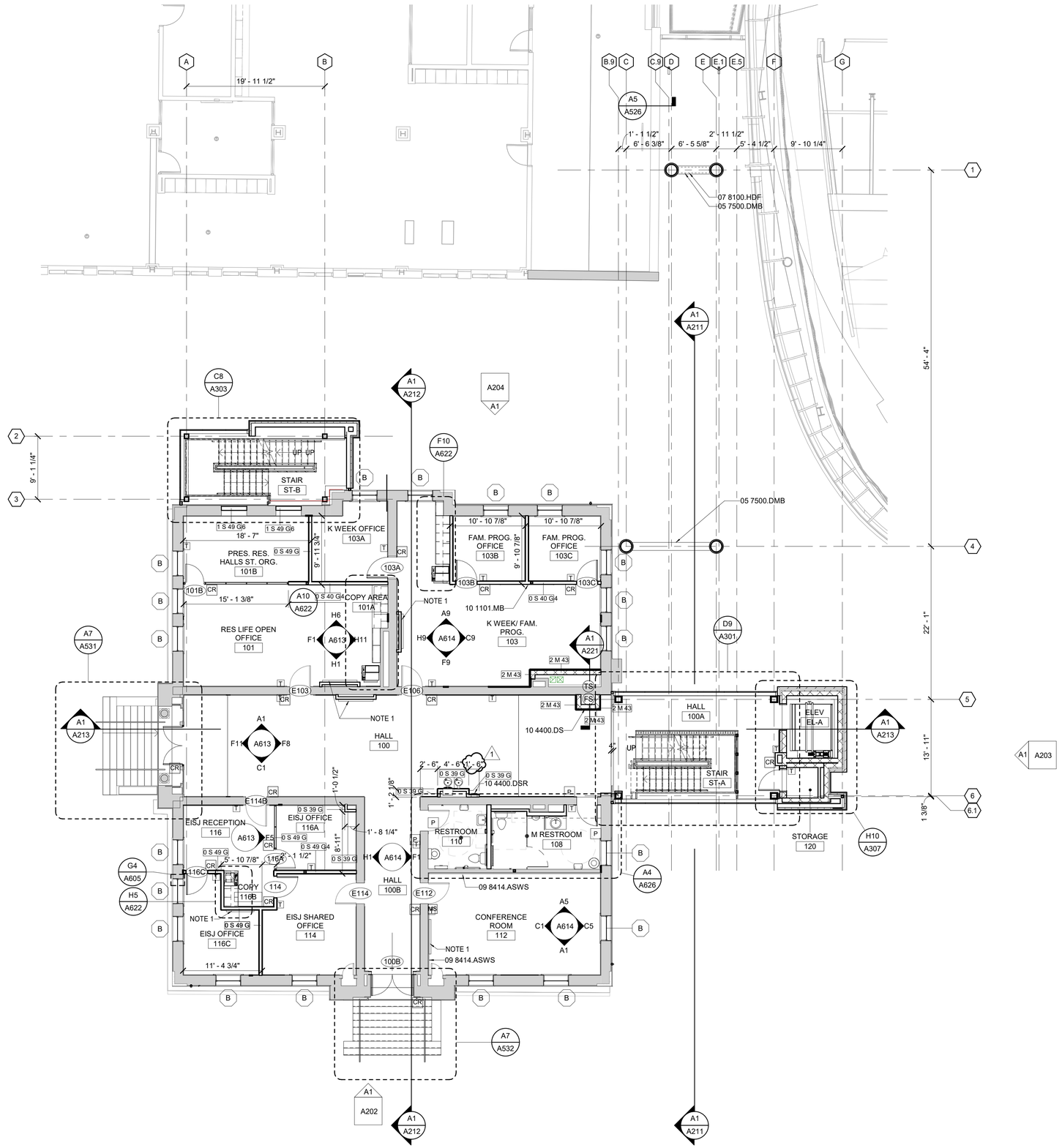
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A100

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:19 PM

A1 GROUND FLOOR PLAN



MATERIAL KEYNOTES

05 7500.DMB	DECORATIVE FORMED METAL, BEAM COVER
07 8100.HDF	HIGH-DENSITY CEMENTITIOUS SPRAYED-ON FIREPROOFING
09 8414.ASWS	ACOUSTIC STRETCHED-FABRIC WALL SYSTEMS
10 1101.MB	MARKERBOARD
10 4400.DS	DRY CHEMICAL FE AND SURFACE CABINET
10 4400.DSR	DRY CHEMICAL FE AND SEMI-RECESSED CABINET

NEW WORK LEGEND

CR	CARD READER
P	DOOR PUSH BUTTON

GENERAL NOTES

A. ALL NEW INTERIOR WALL TYPES **0 S 40 G** U.N.O.

SHEET SPECIFIC NOTES

1. NEW MONITOR

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: FIRST FLOOR - PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Gravel REGISTERED NO. 7298 COMMONWEALTH OF KENTUCKY ARCHITECT

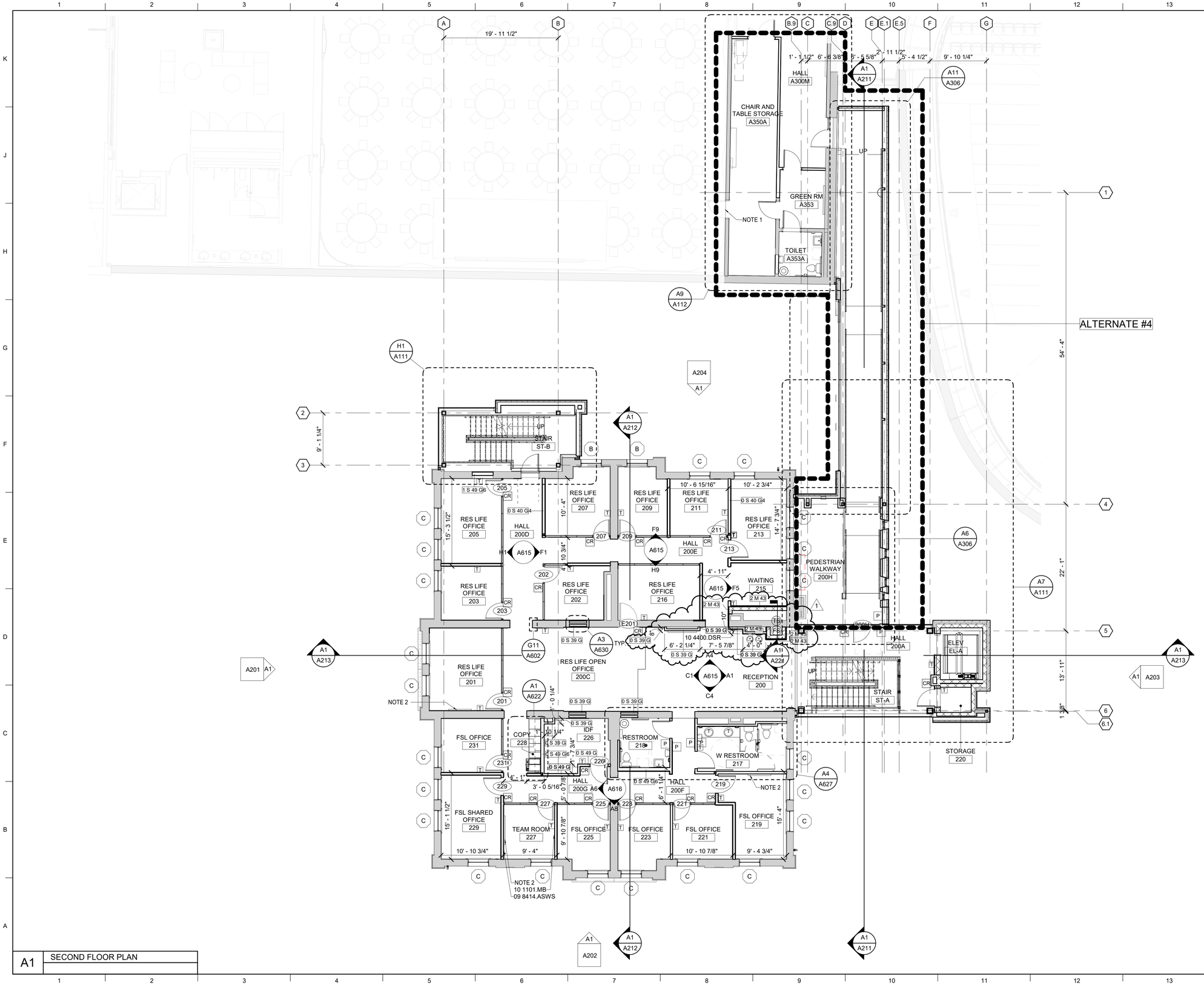
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A101

A1 | FIRST FLOOR PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:24 PM



MATERIAL KEYNOTES

09 8414.ASWS	ACOUSTIC STRETCHED-FABRIC WALL SYSTEMS
10 1101.MB	MARKERBOARD
10 4400.DSR	DRY CHEMICAL FE AND SEMI-RECESSED CABINET

NEW WORK LEGEND

CR	CARD READER
P	DOOR PUSH BUTTON

GENERAL NOTES

A. ALL NEW INTERIOR WALL TYPES **0 S 40 G** U.N.O.

SHEET SPECIFIC NOTES

1. NO NEW WORK.
2. NEW MONITOR

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: SECOND FLOOR - PLAN

SCALE (U.N.O.): 1/8" = 1'-0"

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Gravel, REGISTERED, NO. 7298, COMMONWEALTH OF KENTUCKY, ARCHITECT

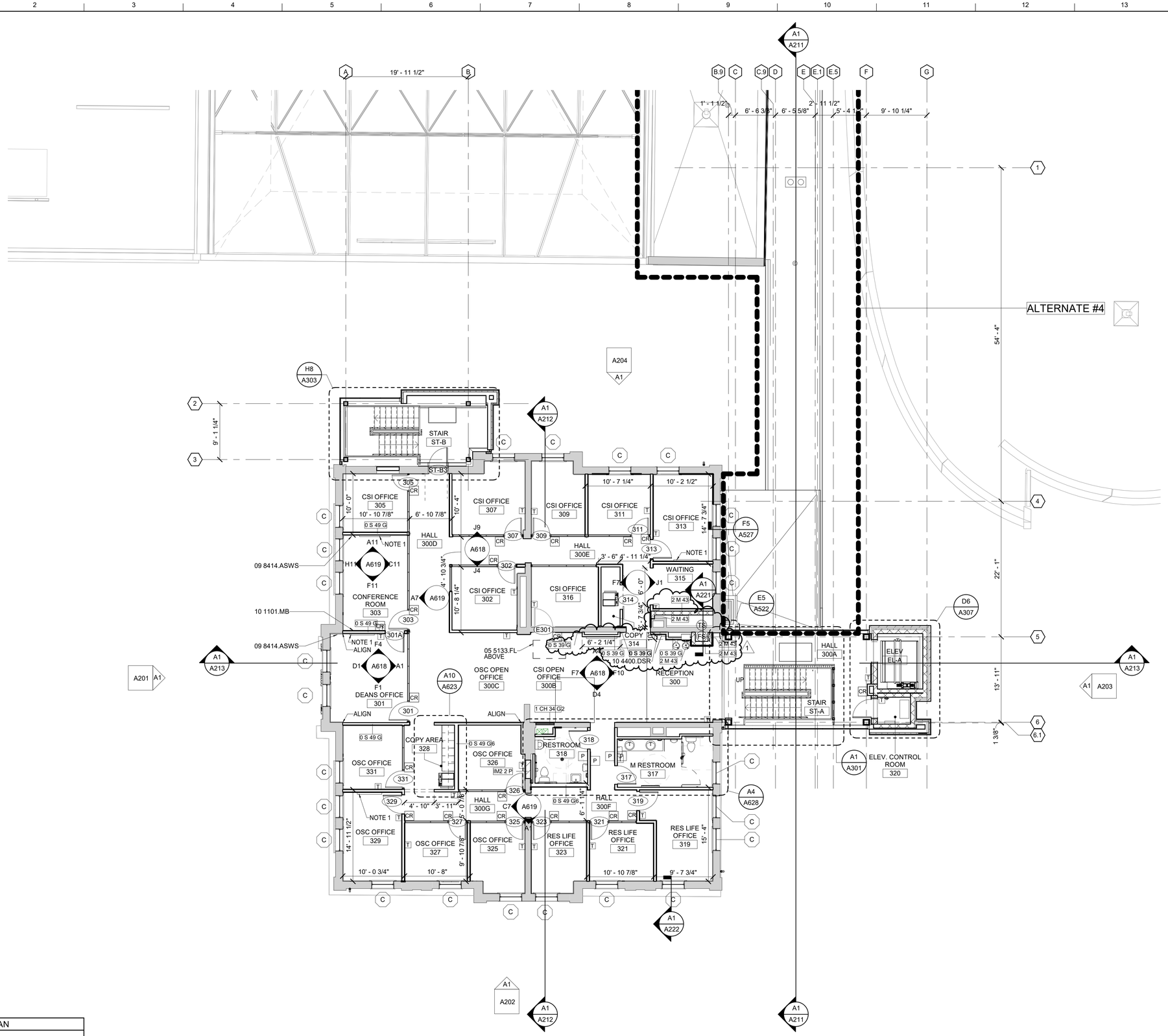
ISSUE DATE: 01/05/2021

JOB. NO.: 11396-00

DWG. NO.: A102

A1 | SECOND FLOOR PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:34 PM



MATERIAL KEYNOTES

05 5133.FL	FOLDING LADDER
09 8414.ASWS	ACOUSTIC STRETCHED-FABRIC WALL SYSTEMS
10 1101.MB	MARKERBOARD
10 4400.DSR	DRY CHEMICAL FE AND SEMI-RECESSED CABINET

NEW WORK LEGEND

CR	CARD READER
P	DOOR PUSH BUTTON

GENERAL NOTES

A. ALL NEW INTERIOR WALL TYPES **0 S 40 G** U.N.O.

SHEET SPECIFIC NOTES

1. NEW MONITOR.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: THIRD FLOOR - PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7298
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

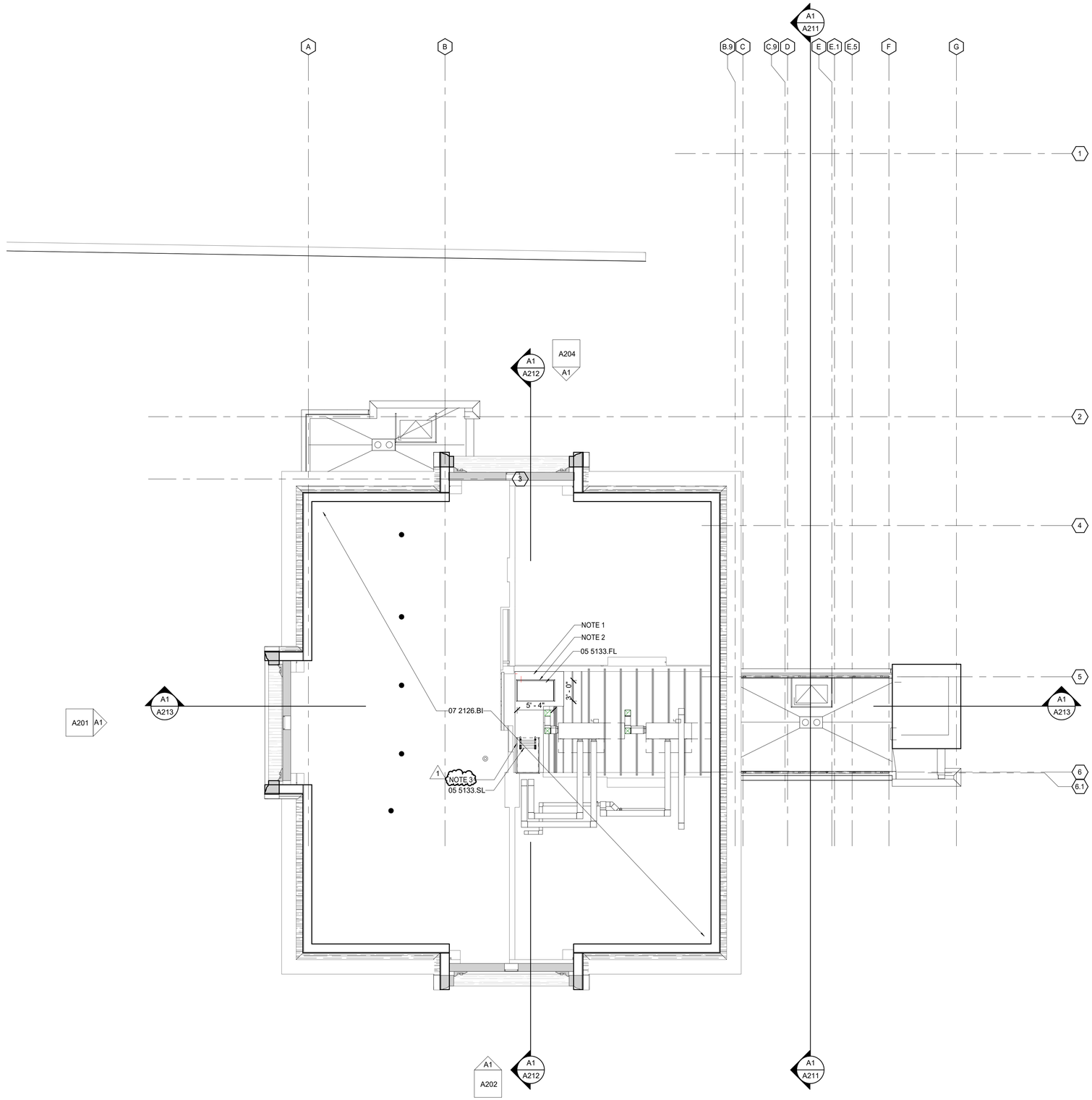
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A103

A1 | THIRD FLOOR PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:37 PM



MATERIAL KEYNOTES

05 5133.FL	FOLDING LADDER
05 5133.SL	SHIP LADDER
07 2126.BI	BLOWN INSULATION

GENERAL NOTES

SHEET SPECIFIC NOTES

1. NEW WOOD PLATFORM.
2. SAFETY RAIL AT ACCESS OPENING.
3. SAFETY RAIL AROUND ROOF LADDER AT ATTIC PLATFORM.

1

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: ATTIC FLOOR PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky 2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7288
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

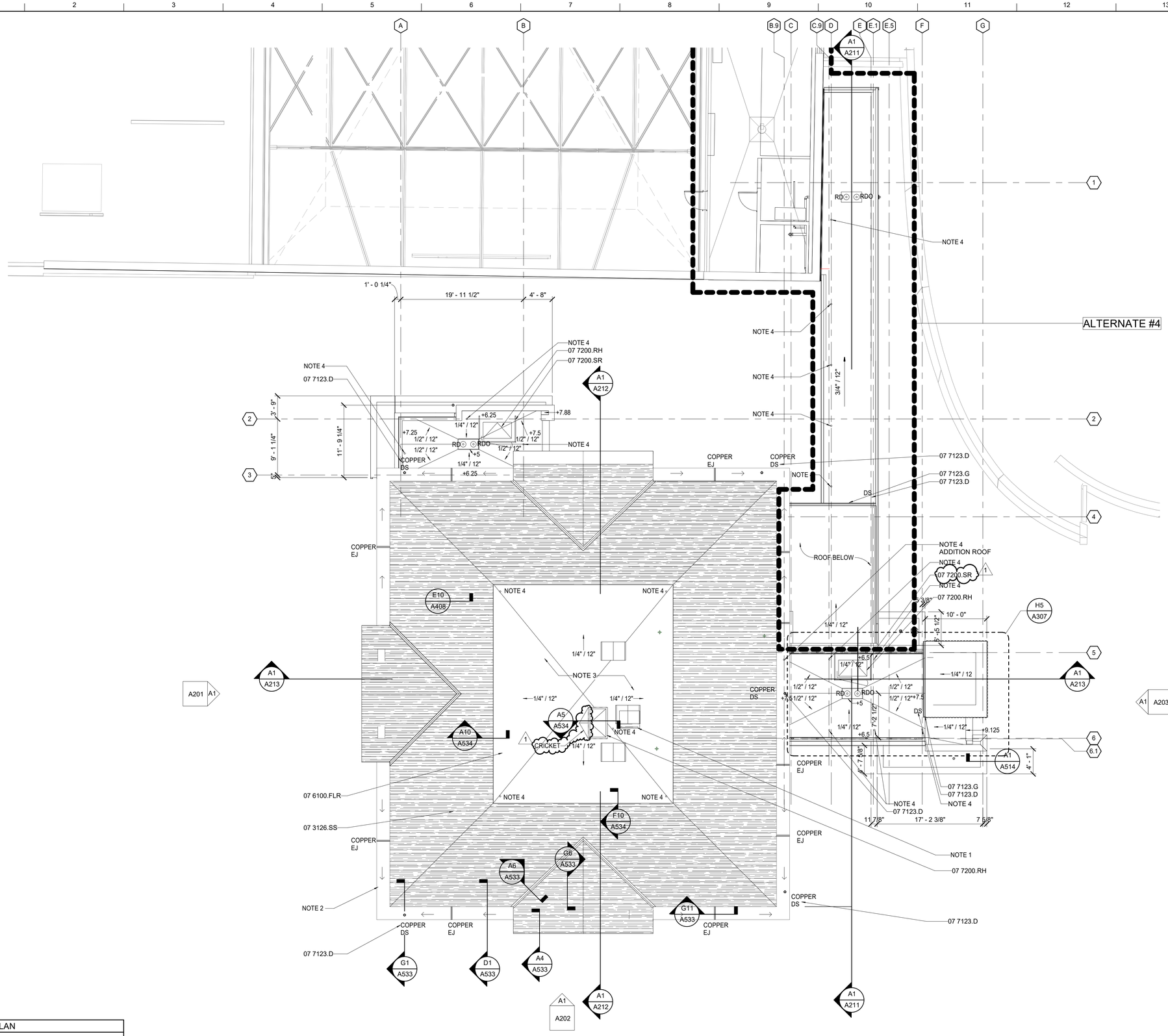
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A104

A1 ATTIC FLOOR PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:40 PM



MATERIAL KEYNOTES

07 3126.SS	SLATE SHINGLES
07 6100.FLR	FLAT LOCK SEAM ROOFING
07 7123.D	DOWNSPOUT
07 7123.G	GUTTER
07 7200.RH	ROOF HATCH
07 7200.SR	SAFETY RAIL

GENERAL NOTES

SHEET SPECIFIC NOTES

1. PATCH OPENING IN ROOF WITH MARINE-GRADE SHEATHING.
2. ALL EXISTING GUTTERS TO BE CLEANED. APPLY A SELF-ADHERING MEMBRANE AND INSTALL OVERSIZED DROPS THROUGH THE INTEGRAL SOFFIT AT THE DOWNSPOUTS. INSTALL NEW COPPER LINER WITH NORMAL DROPS TO THE GROUND LEVEL.
3. PRIOR TO INSTALLATION OF NEW COPPER ROOF, ADD A LAYER OF PLYWOOD DECKING TO INCREASE ROOF HEIGHT. SEE DETAILS.
4. ROOF TIE OFF AND WINDOW WASHING TIE OFF LOCATIONS. SEE STRUCTURAL FOR SUPPORT AND CONNECTION.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: ROOF PLAN

SCALE (U.N.O.): 1/16" = 1'-0"

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO. 7298
COMMONWEALTH OF KENTUCKY
ARCHITECT

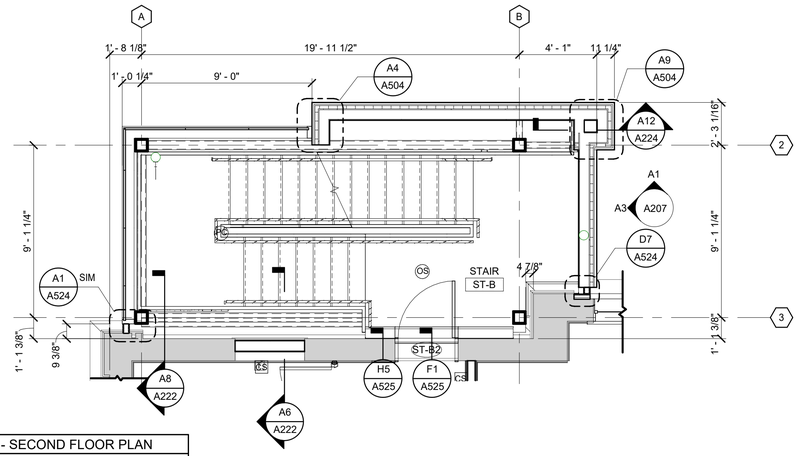
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

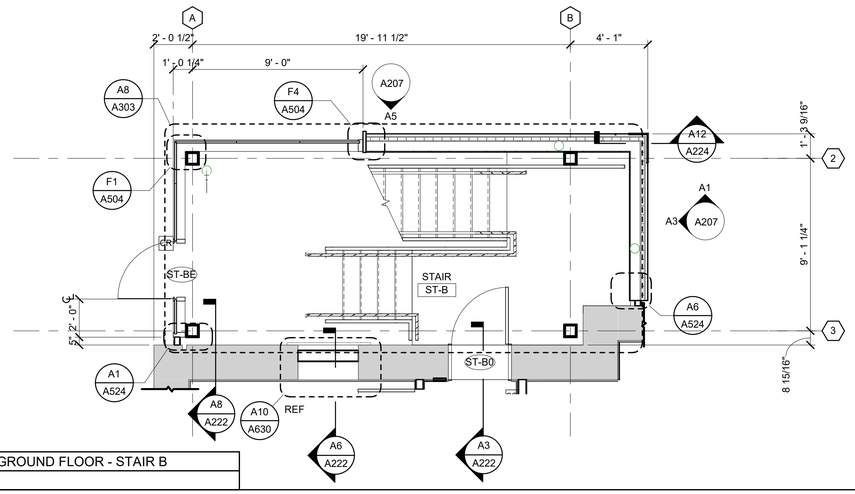
DWG. NO.: A105

A1 ROOF PLAN

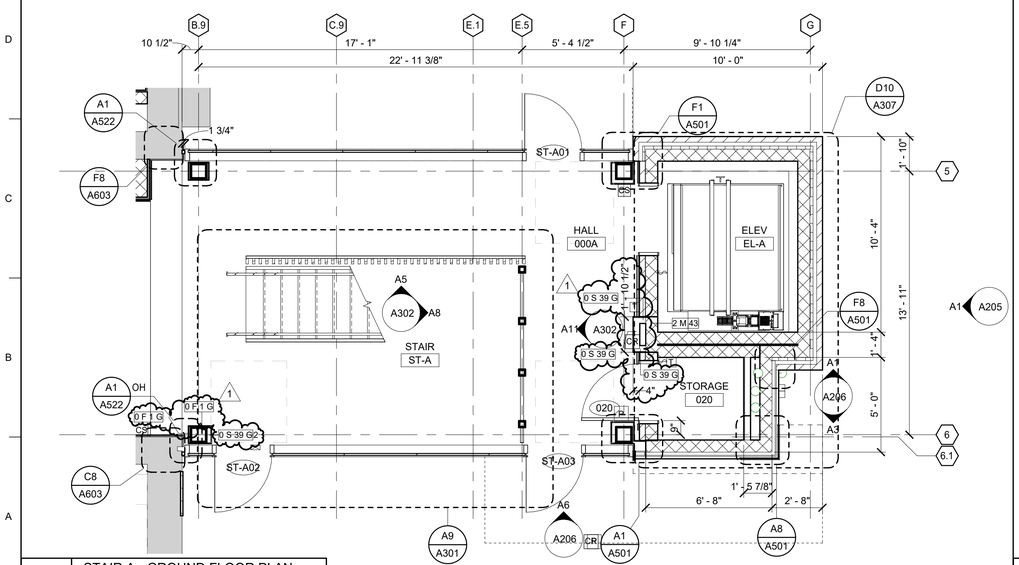
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:43 PM



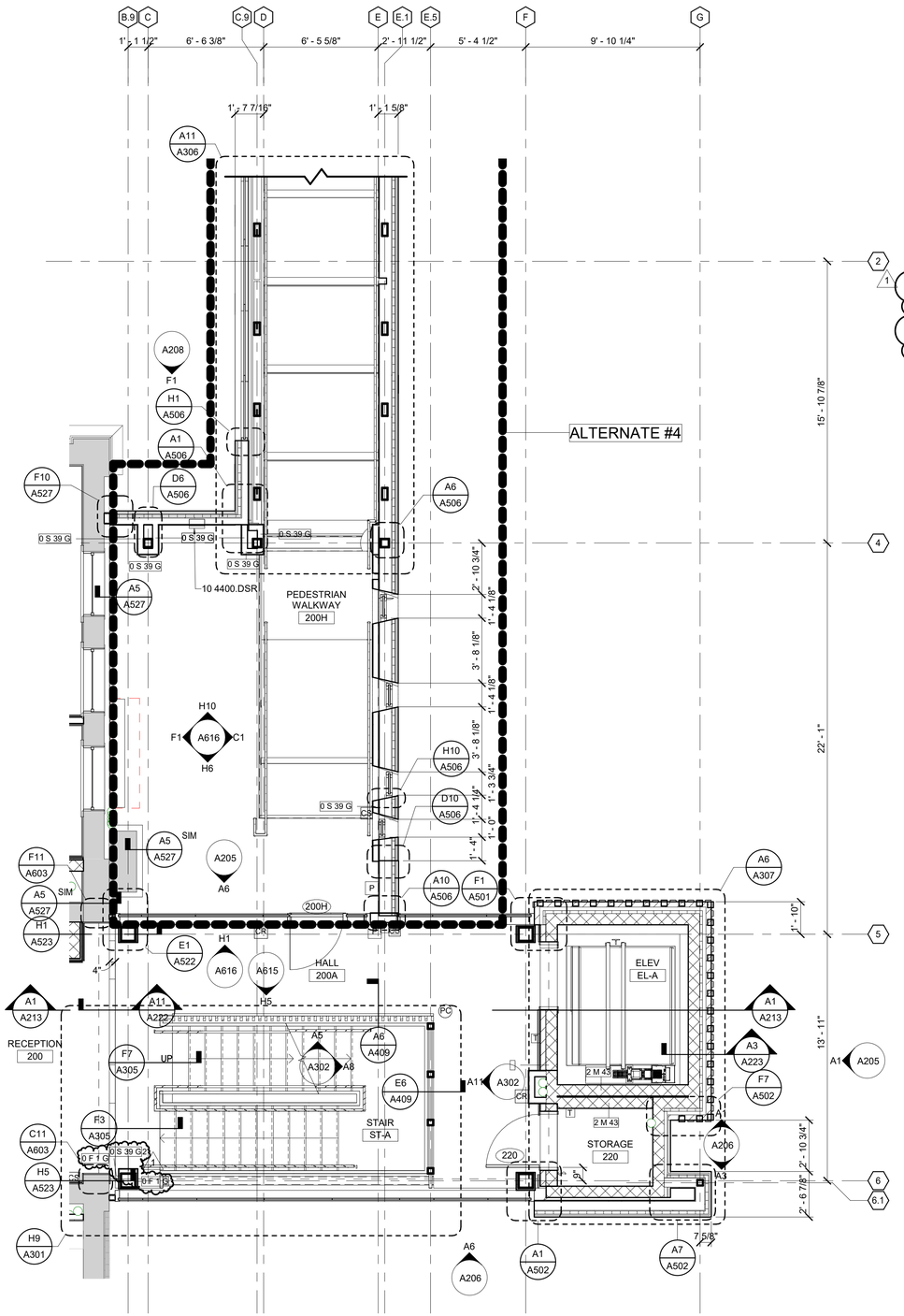
H1 | STAIR B - SECOND FLOOR PLAN



D1 | GROUND FLOOR - STAIR B



A1 | STAIR A - GROUND FLOOR PLAN



A7 | SECOND FLOOR - ADDITION

MATERIAL KEYNOTES

10 4400.DSR	DRY CHEMICAL FE AND SEMI-RECESSED CABINET

NEW WORK LEGEND

CR	CARD READER
P	DOOR PUSH BUTTON

GENERAL NOTES

A. ALL NEW INTERIOR WALL TYPES **0 S 40 G** U.N.O.

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE: ENLARGED PLANS
SCALE (U.N.O.): 0 4 8FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

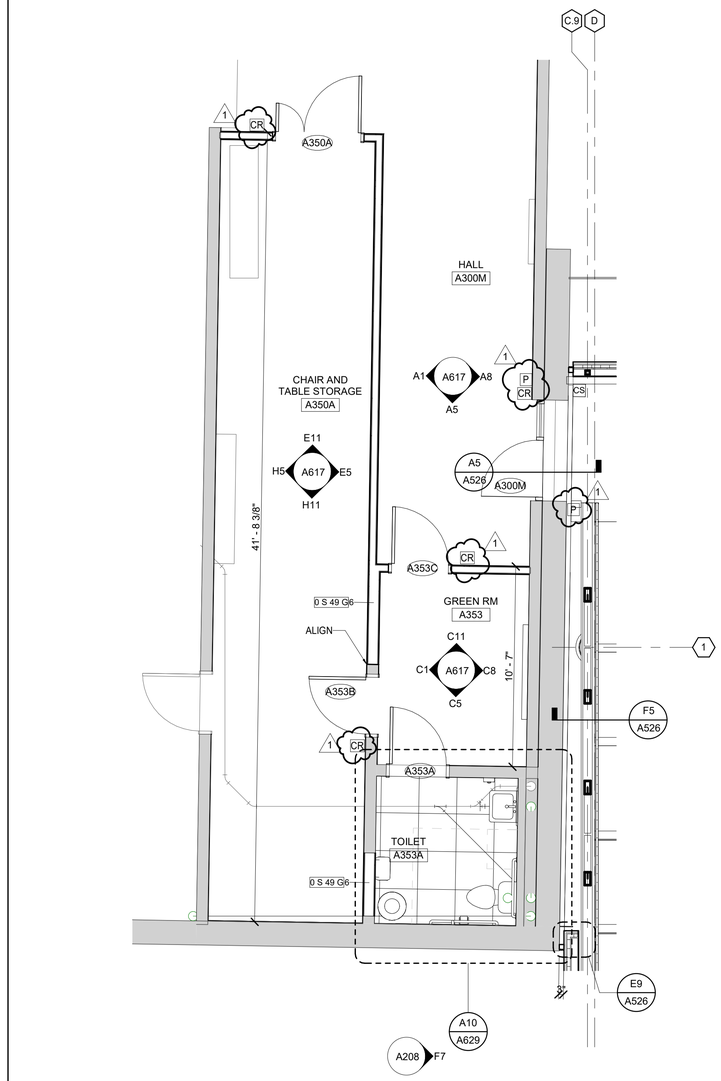
KEY PLAN

PROJECT NORTH

SEAL: Karen Gravel, REGISTERED, NO. 7286, COMMONWEALTH OF KENTUCKY, ARCHITECT

ISSUE DATE: July 02, 2021
JOB. NO.: 11396-00
DWG. NO.: A111

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:46 PM



MATERIAL KEYNOTES

NEW WORK LEGEND

CR	CARD READER
P	DOOR PUSH BUTTON

GENERAL NOTES

A. ALL NEW INTERIOR WALL TYPES **0 S 40 G** U.N.O.

SHEET SPECIFIC NOTES

A9 ENLARGED PLAN - SC STORAGE- SUPERCEDED

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
STUDENT CENTER STORAGE ENLARGED PLAN - ALTERNATE 4

SCALE (U.N.O.) 0 4 8 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

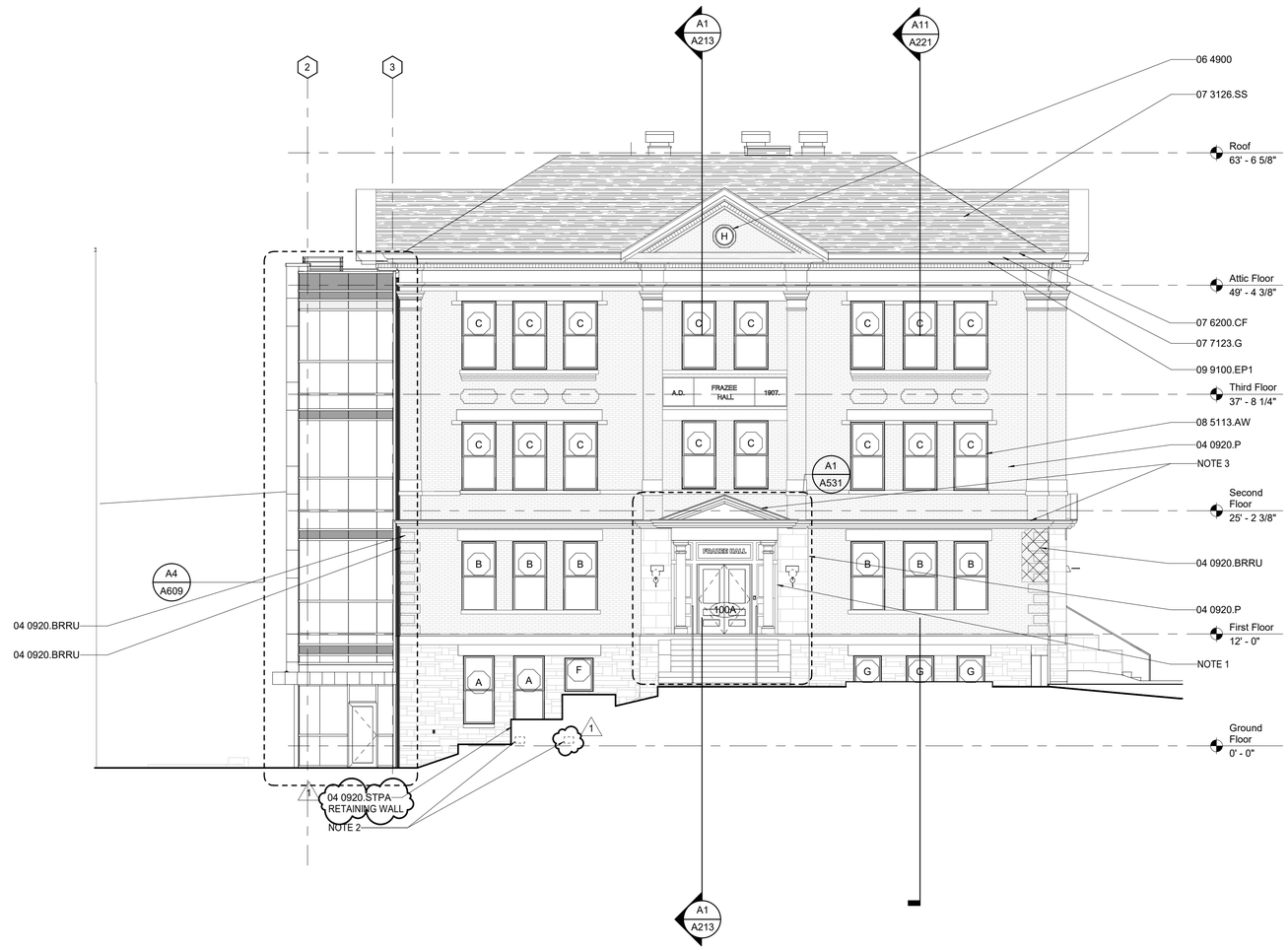
SEAL
Karen Gravel
REGISTERED
NO. 7266
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A112

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:47 PM



MATERIAL KEYNOTES

04 0920.BRRU	REPLACE MISSING/DAMAGED BRICK
04 0920.P	REPOINT MASONRY
04 0920.STPA	PATCH DAMAGED SECTION
06 4900	EXTERIOR ARCHITECTURAL WOODWORK
07 3126.SS	SLATE SHINGLES
07 6200.CF	COPPER SHEET METAL FLASHING
07 7123.G	GUTTER
08 5113.AW	ALUMINUM WINDOW
09 9100.EP1	EXTERIOR PAINT 1

EXTERIOR FINISH NOTES

EXTERIOR FINISHES

Exterior Paint (EP)
EP1: CORNICE, SOFFIT AND LINTEL PAINT
EP2: TRIM PAINT

Stain Finish (SF)
SF2: EXTERIOR DOOR STAIN FINISH

Window Colors (AWC)
AWC1: WINDOW PANNING COLOR
AWC2: WINDOW FRAME COLOR

REPAIR LEGEND

04 0920.BRRU
AREAS OF SIGNIFICANT BRICK DAMAGE TO BE REMOVED AND REPLACED.

04 0920.STPA

GENERAL NOTES

A. REPOINT ALL BRICK MORTAR JOINTS: ASSUME 10%.

B. REPLACE DAMAGED BRICKS. ASSUME APPROXIMATELY 200 BRICKS. SEE SPECIFICATION 04 2000 AND ELEVATIONS.

C. SEE SHEET AD204 FOR REPAIR NOTES ON THE NORTHEAST ELEVATION.

D. CLEAN ALL EXTERIOR MASONRY SURFACES. SEE SPECIFICATION 04 0120.

E. INVESTIGATE ALL STEEL LINTELS, CLEAN AND RECOAT, U.N.O. SEE SPECIFICATION 09 9100.

F. NEW CUSTOM DOUBLE PANEL ALUMINUM WINDOWS TO MATCH HISTORIC IN COLOR AND APPEARANCE. INSTALL NEW BACKER ROD AND SEALANT AROUND PERIMETER OF WINDOW.

G. REPAIR SOFFITS AS NEEDED. SEE SPECIFICATION 06 4900. REPAINT SOFFITS. SEE SPECIFICATION 09 9100.

H. REPAIR UPPER AND MID-LEVEL METAL CORNICE WHERE SIGNIFICANT DAMAGE OR CORROSION HAS OCCURED. REPLACE AREAS IN-KIND: ASSUME 25%. REPAINT ALL CORNICES. SEE SPECIFICATION 09 9100.

I. REPOINT ALL SIDES, TOP AND BOTTOM OF KENTUCKY LIMESTONE BASE: ASSUME 10%. REPOINT OF INTERIOR JOINTS.

J. REPOINT HEADERS AND SILLS. ALL SIDES, TOP AND BOTTOM OF INDIANA LIMESTONE.

SHEET SPECIFIC NOTES

1. PROVIDE AND INSTALL KNOX BOX 4400 SERIES. RECESS MOUNTED IN DARK BRONZE. COORDINATE WITH FIRE MARSHALL ON LOCATION.
2. REPLACE VENT AT BOTTOM OF LIMESTONE EXTERIOR WALL WITH A SOLID METAL COVER.
3. SCRAPE AND REPAINT EXISTING COPPER FLASHING ON TOP OF CORNICE, TYPICAL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: NORTHWEST ELEVATION

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Greve REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

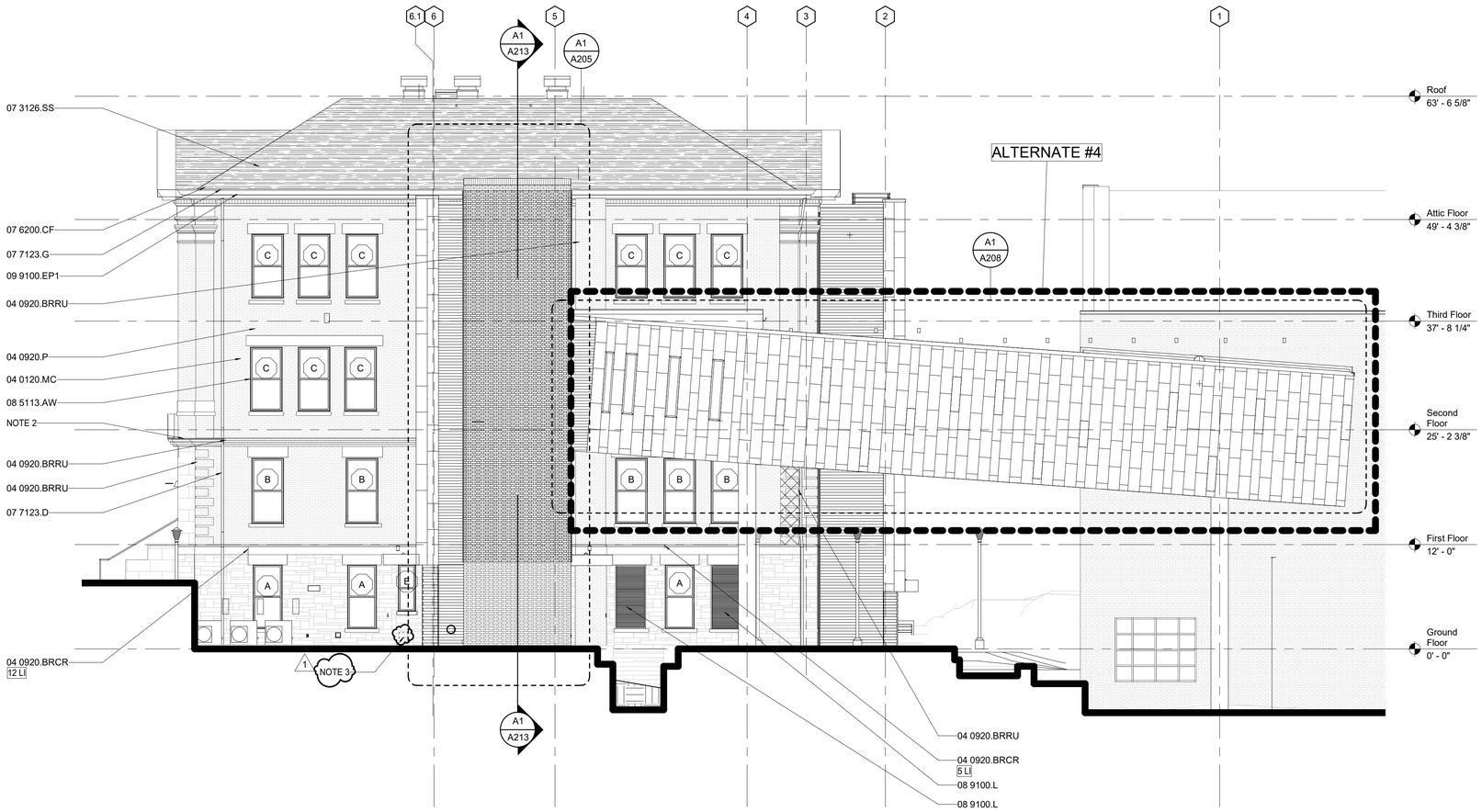
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A201

A1 NORTHWEST ELEVATION

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:53 PM



MATERIAL KEYNOTES

04 0120.MC	MASONRY CLEANING
04 0920.BRCR	REPAIR CRACK
04 0920.BRRU	REPLACE MISSING/DAMAGED BRICK
04 0920.P	REPOINT MASONRY
04 0920.STPA	PATCH DAMAGED SECTION
07 3126.SS	SLATE SHINGLES
07 6200.CF	COPPER SHEET METAL FLASHING
07 7123.D	DOWNSPOUT
07 7123.G	GUTTER
08 5113.AW	ALUMINUM WINDOW
08 9100.L	LOUVER
09 9100.EP1	EXTERIOR PAINT 1

EXTERIOR FINISH NOTES

EXTERIOR FINISHES

Exterior Paint (EP)
EP1: CORNICE, SOFFIT AND LINTEL PAINT
EP2: TRIM PAINT

Stain Finish (SF)
SF2: EXTERIOR DOOR STAIN FINISH

Window Colors (AWC)
AWC1: WINDOW PANNING COLOR
AWC2: WINDOW FRAME COLOR

REPAIR LEGEND

04 0920.BRRU
AREAS OF SIGNIFICANT BRICK DAMAGE TO BE REMOVED AND REPLACED.

04 0920.STPA

GENERAL NOTES

A. REPOINT ALL BRICK MORTAR JOINTS: ASSUME 10%.

B. REPLACE DAMAGED BRICKS. ASSUME APPROXIMATELY 200 BRICKS. SEE SPECIFICATION 04 2000 AND ELEVATIONS.

C. SEE SHEET AD204 FOR REPAIR NOTES ON THE NORTHEAST ELEVATION.

D. CLEAN ALL EXTERIOR MASONRY SURFACES. SEE SPECIFICATION 04 0120.

E. INVESTIGATE ALL STEEL LINTELS, CLEAN AND RECOAT, U.N.O. SEE SPECIFICATION 09 9100.

F. NEW CUSTOM DOUBLE PANEL ALUMINUM WINDOWS TO MATCH HISTORIC IN COLOR AND APPEARANCE. INSTALL NEW BACKER ROD AND SEALANT AROUND PERIMETER OF WINDOW.

G. REPAIR SOFFITS AS NEEDED. SEE SPECIFICATION 06 4900. REPAINT SOFFITS. SEE SPECIFICATION 09 9100.

H. REPAIR UPPER AND MID-LEVEL METAL CORNICE WHERE SIGNIFICANT DAMAGE OR CORROSION HAS OCCURED. REPLACE AREAS IN-KIND: ASSUME 25%. REPAINT ALL CORNICES. SEE SPECIFICATION 09 9100.

I. REPOINT ALL SIDES, TOP AND BOTTOM OF KENTUCKY LIMESTONE BASE: ASSUME 10%. REPOINT OF INTERIOR JOINTS.

J. REPOINT HEADERS AND SILLS. ALL SIDES, TOP AND BOTTOM OF INDIANA LIMESTONE.

SHEET SPECIFIC NOTES

1. NEW COPPER DOWNSPOUT WITH DOWNSPOUT BOOT.
2. SCRAPE AND REPAINT EXISTING COPPER FLASHING ON TOP OF CORNICE, TYPICAL.
3. REPLACE VENT AT BOTTOM OF LIMESTONE EXTERIOR WALL WITH A SOLID METAL COVER.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: SOUTHEAST ELEVATION

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Greve REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

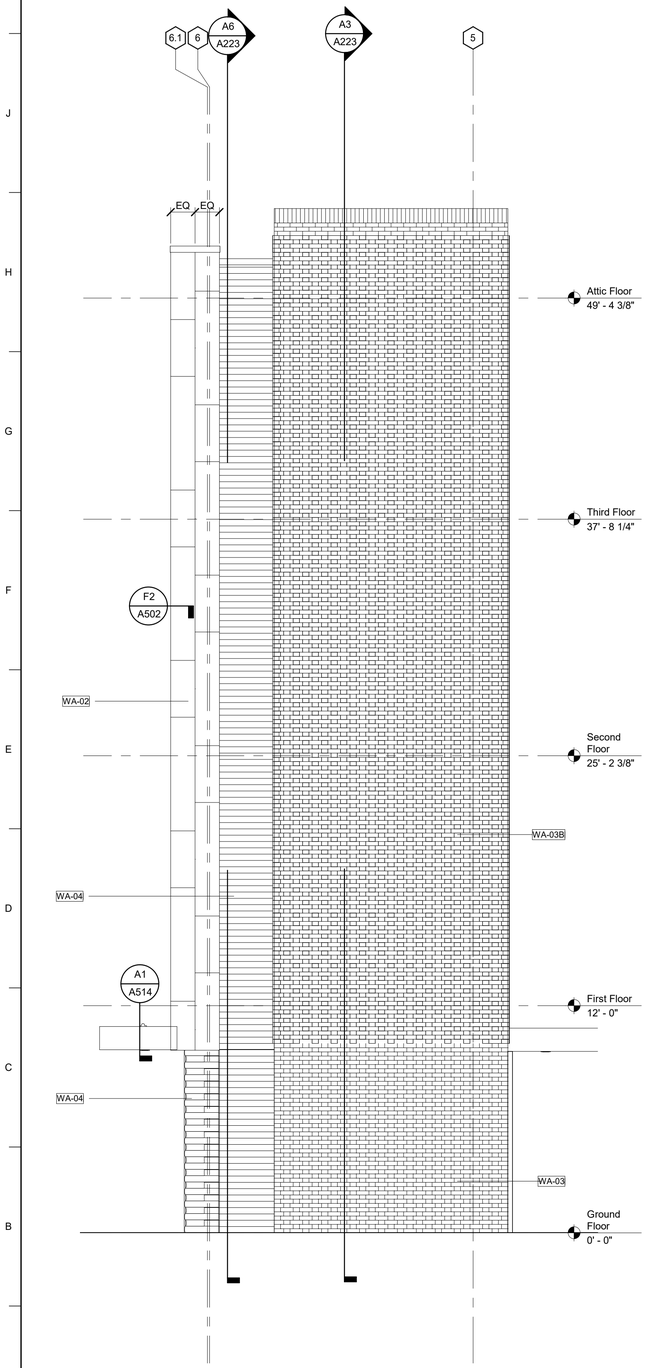
ISSUE DATE: July 02, 2021

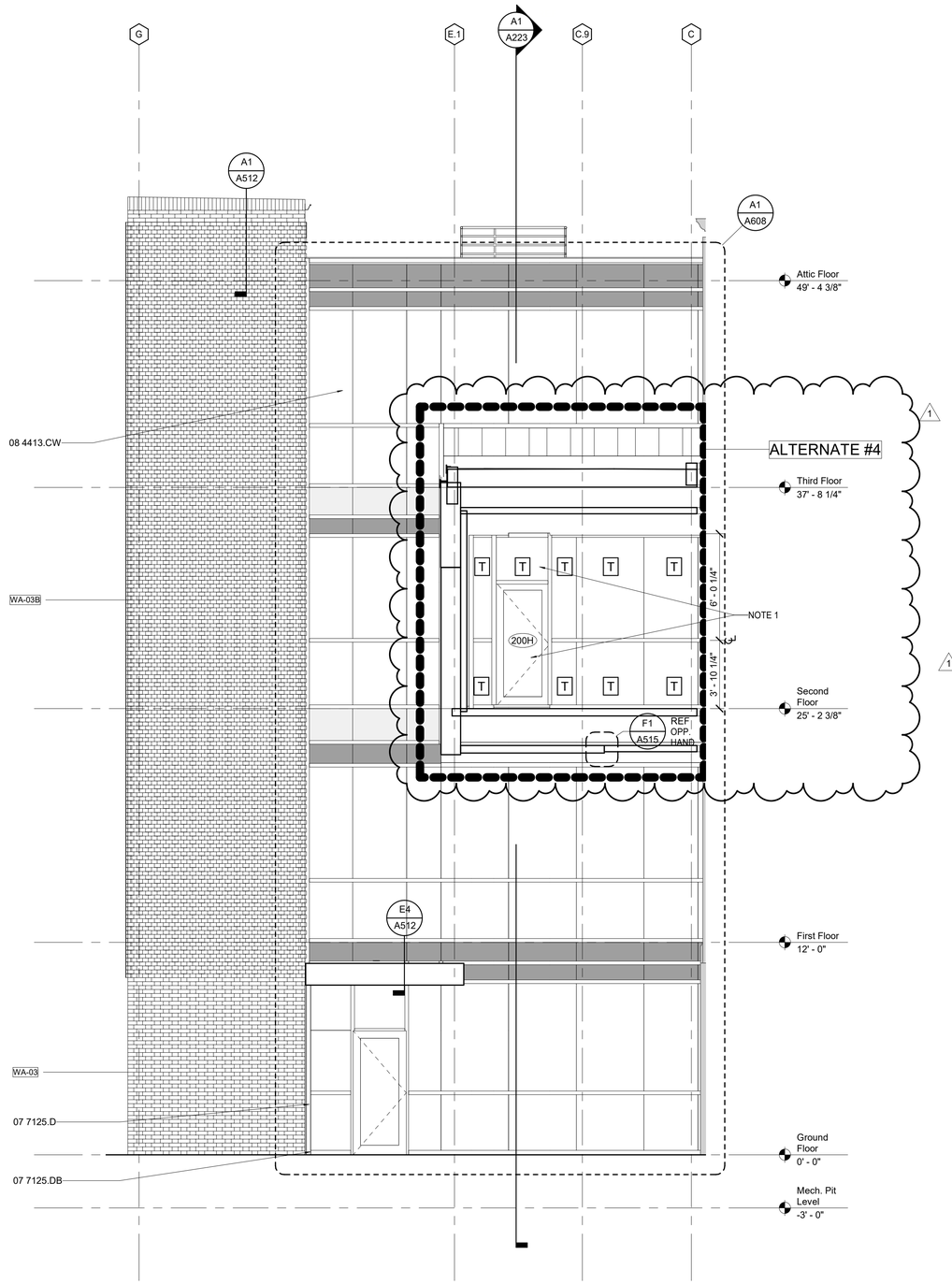
JOB. NO.: 11396-00

DWG. NO.: A203

A1 SOUTHEAST ELEVATION

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:49:59 PM





MATERIAL KEYNOTES

07 7125.D	DOWNSPOUT
07 7125.DB	DOWNSPOUT BOOT
08 4413.CW	CURTAINWALL

GENERAL NOTES

SHEET SPECIFIC NOTES

1 BASE BID TO INCLUDE TEMPERED GLAZING TO MATCH ADJACENT CURTAIN WALL GLAZING LAYOUT.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: ADDITION ELEVATIONS

SCALE (U.N.O.): 0 4 8 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Gravel, REGISTERED NO. 7286, COMMONWEALTH OF KENTUCKY, ARCHITECT

ISSUE DATE: July 02, 2021

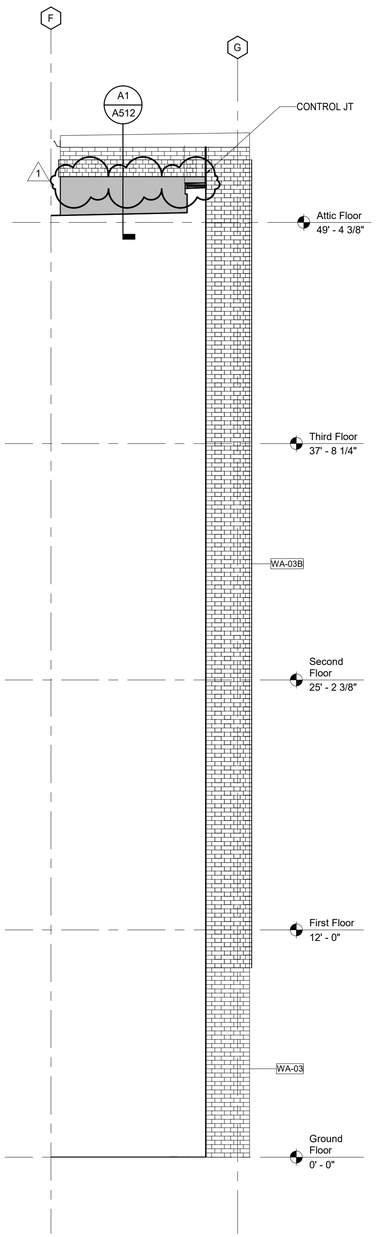
JOB. NO.: 11396-00

DWG. NO.: A205

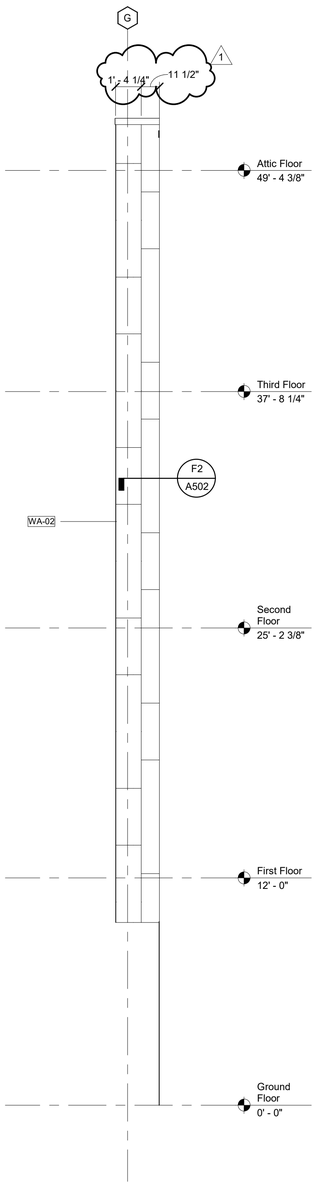
A1 ENLARGED ELEV. - ADDITION - E

A6 ENLARGED ELEV. - ADDITION - N

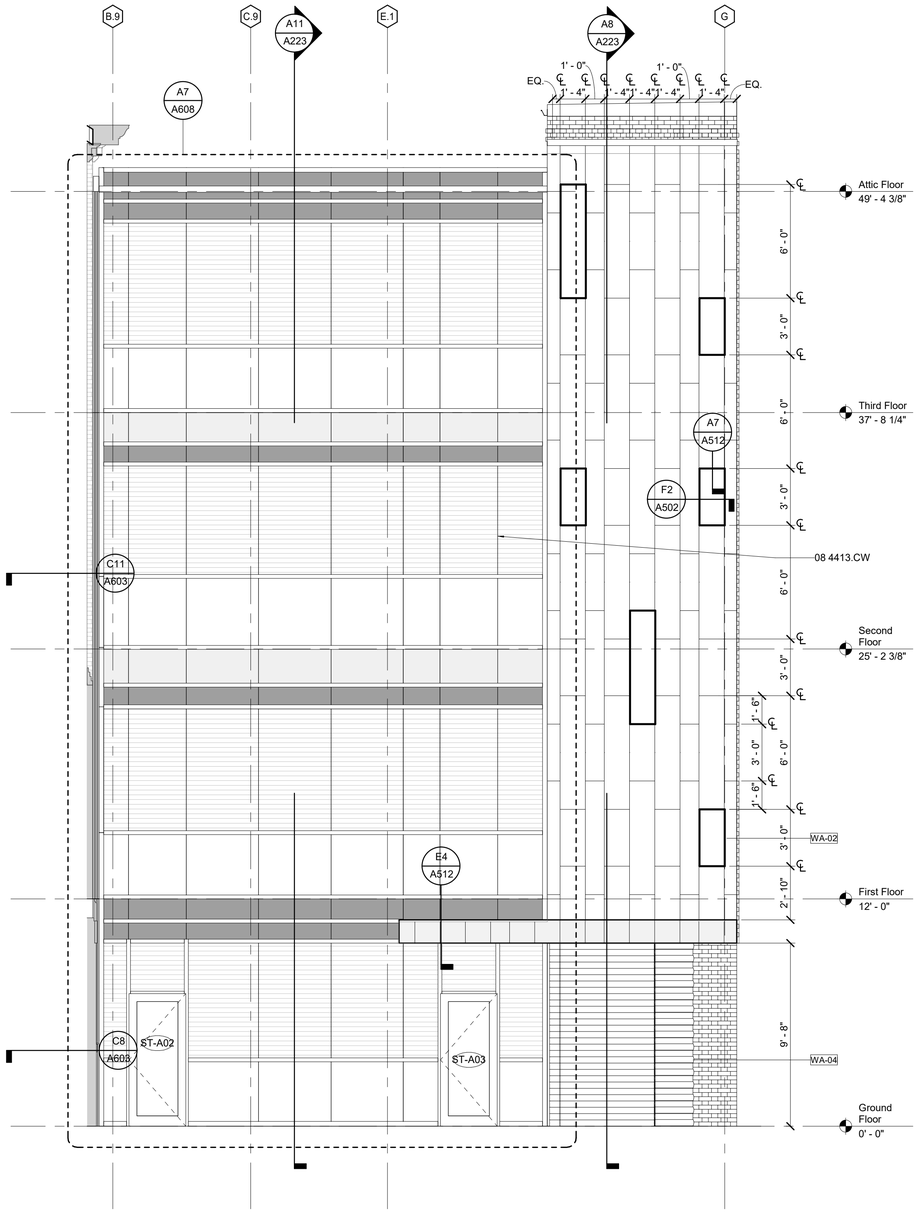
BIM 360://11396-00 UK Frazee Hall\Central_11396-00_v21.rvt
7/29/2021 10:50:04 PM



A1 ENLARGED ELEVATION-ADDITION-S



A3 ENLARGED ELEVATION-ADDITION-N



A6 ENLARGED ELEV. - ADDITION - S

MATERIAL KEYNOTES

08 4413.CW CURTAINWALL

LEGEND

ZINC METAL PANEL TO HAVE 1" REVEAL ALL SIDES, U.N.O.

GENERAL NOTES

SHEET SPECIFIC NOTES

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7288
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE
ADDITION ELEVATIONS

SCALE (U.N.O.)
0 4 8 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

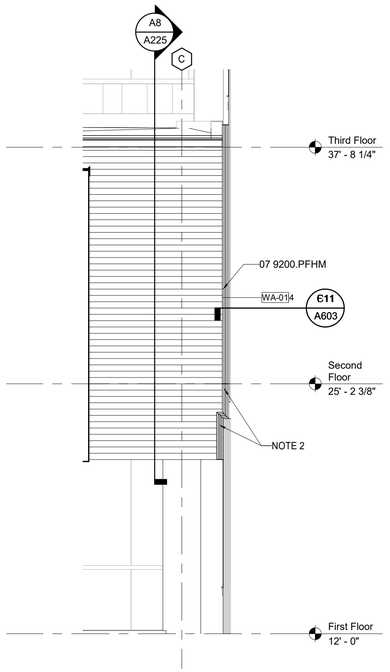
LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

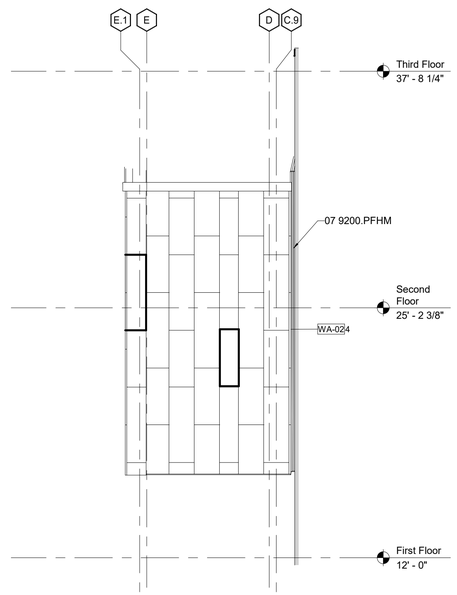
JOB. NO.
11396-00

DWG. NO.
A206

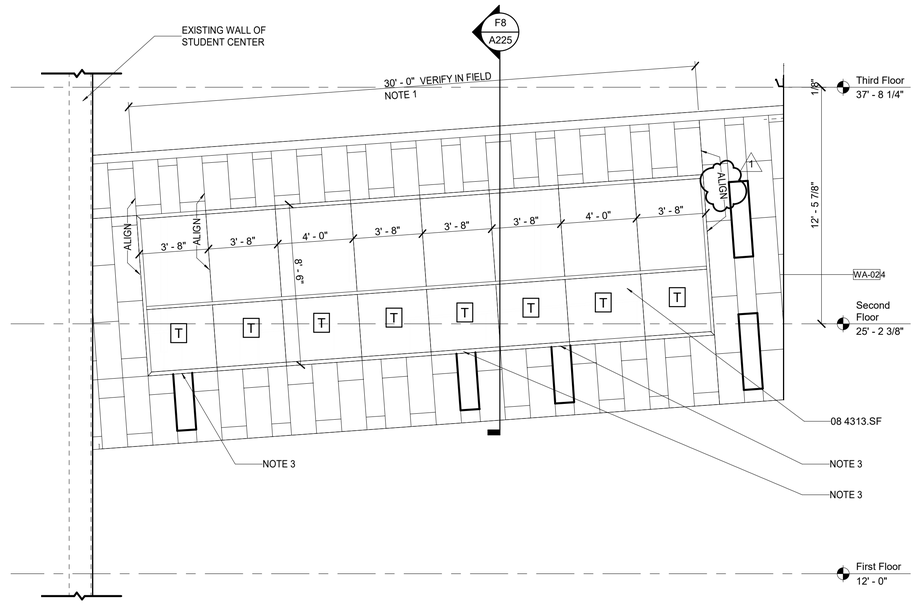
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:08 PM



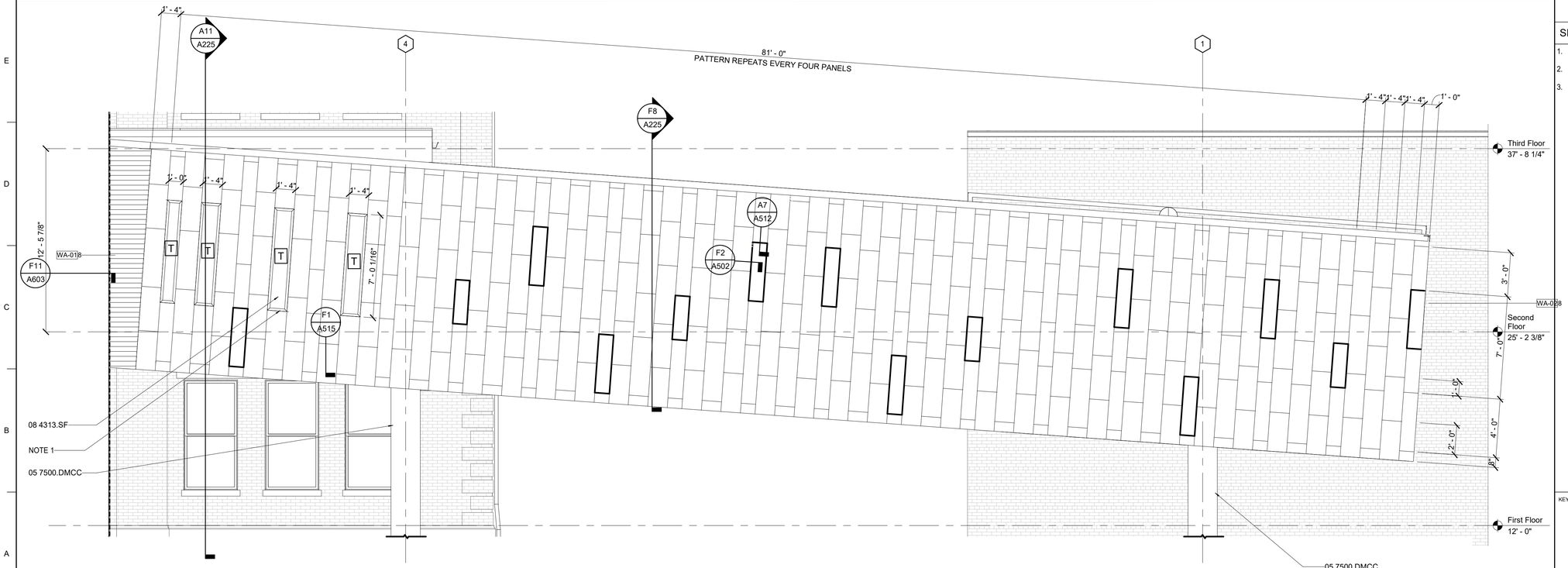
F1 PEDESTRIAN WALKWAY - NORTHEAST ELEVATION



F4 ELEVATION - CONNECTOR - S



F7 PEDESTRIAN WALKWAY - NORTHWEST ELEVATION



A1 PEDESTRIAN WALKWAY - SOUTHEAST ELEVATION

MATERIAL KEYNOTES

05 7500.DMCC	DECORATIVE FORMED METAL, COLUMN COVER
07 9200.PFHM	PRECOMPRESSED FOAM SEAL, HIGH MOVEMENT
08 4313.SF	STOREFRONT

LEGEND

ZINC METAL PANEL TO HAVE 1" REVEAL ALL SIDES, U.N.O.

GENERAL NOTES

SHEET SPECIFIC NOTES

1. ROUGH OPENING BASED ON FULL WALL PANEL COURSING. FIELD VERIFY.
2. FIELD VERIFY OFFSET OF EXPANSION JOINT ALONG EXISTING EXTERIOR WALL.
3. NO 1" REVEAL AT TOP OF PANEL AND STOREFRONT SILL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
PEDESTRIAN WALKWAY ELEVATIONS - ALTERNATE 4

SCALE (U.N.O.)
0 4 8 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

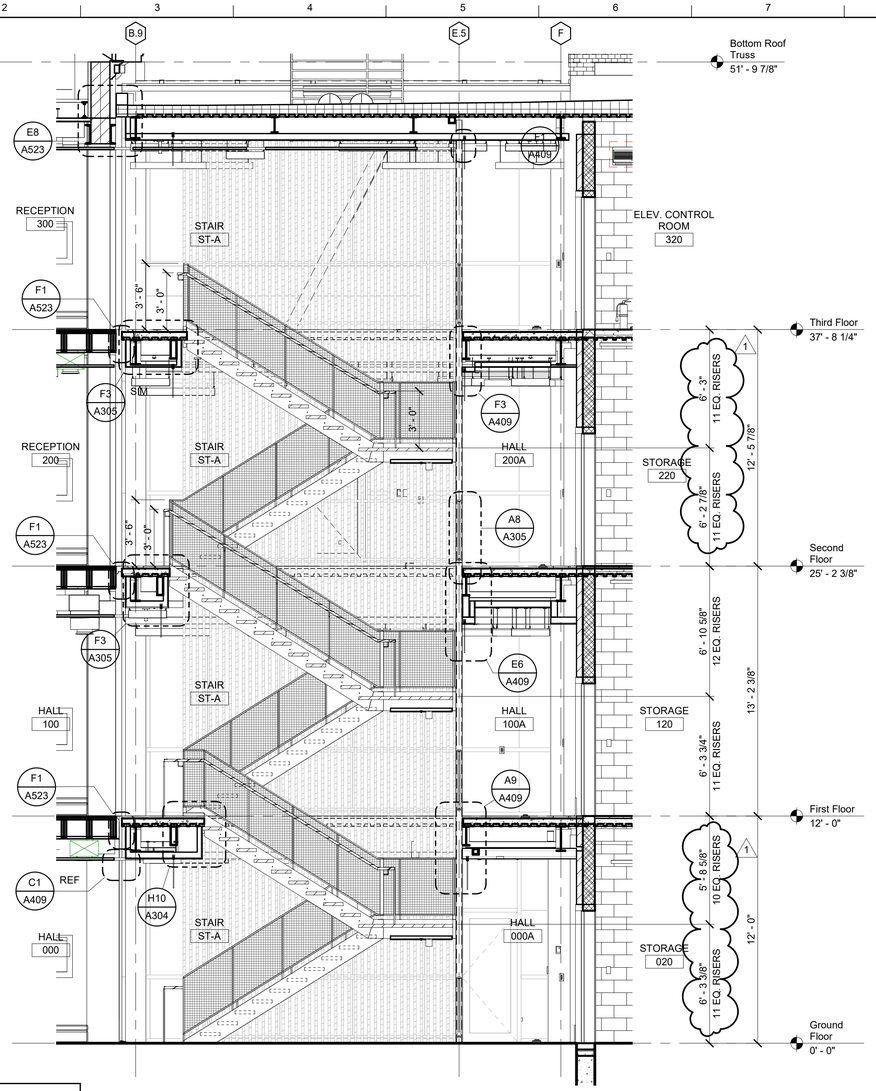
SEAL
Karen Gravel
REGISTERED
NO. 7292
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

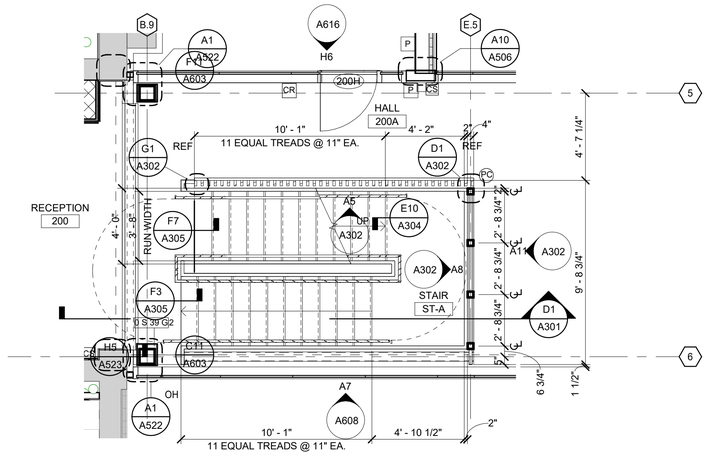
JOB. NO.
11396-00

DWG. NO.
A208

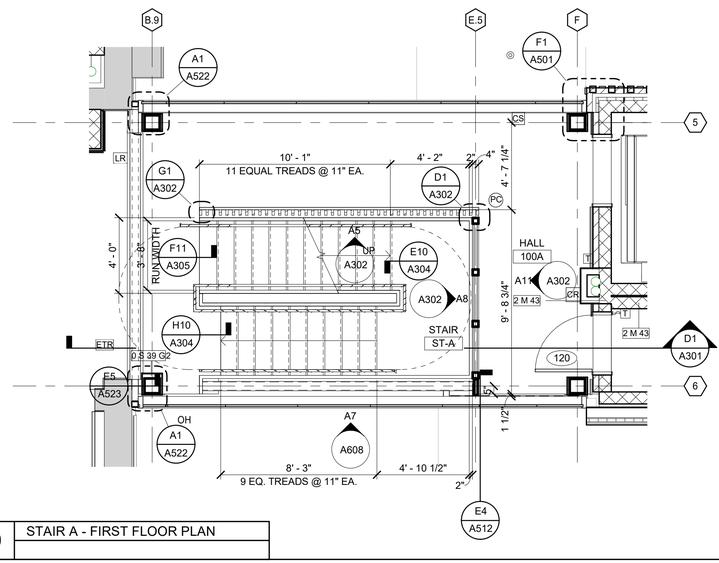
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:12 PM



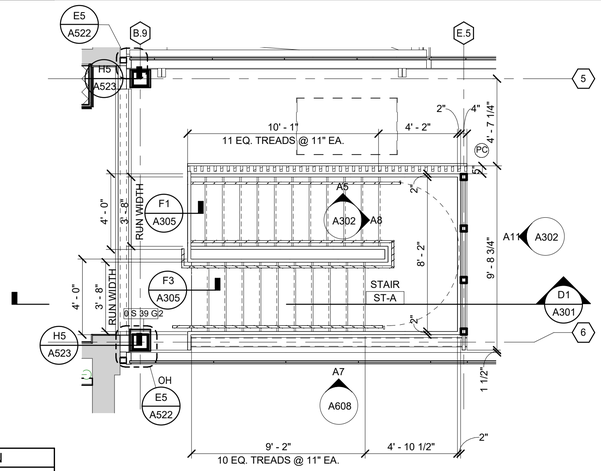
D1 STAIR A - SECTION



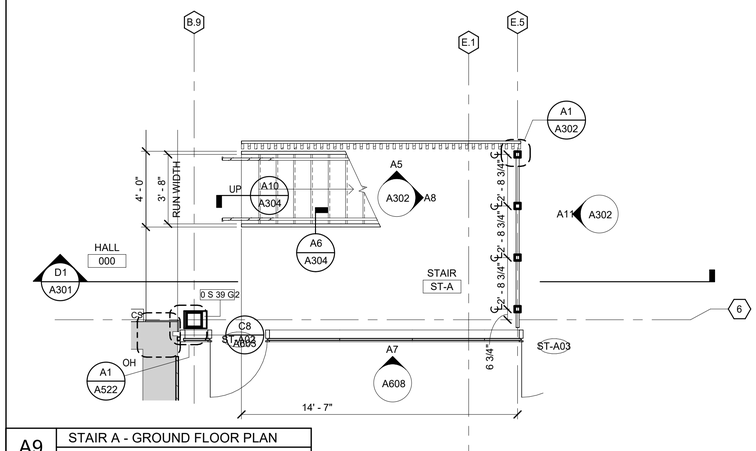
H9 STAIR A - SECOND FLOOR PLAN



D9 STAIR A - FIRST FLOOR PLAN



A1 STAIR A - THIRD FLOOR PLAN



A9 STAIR A - GROUND FLOOR PLAN

MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

KEY PLAN

PROJECT NORTH

SEAL

Karen Graef
REGISTERED
NO. 7286
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A301

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

SHEET TITLE
VERTICAL CIRCULATION - STAIR A

SCALE (U.N.O.)
0 4 8 FT

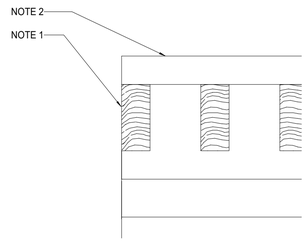
REVISION:

1	Addendum #1	7/30/21

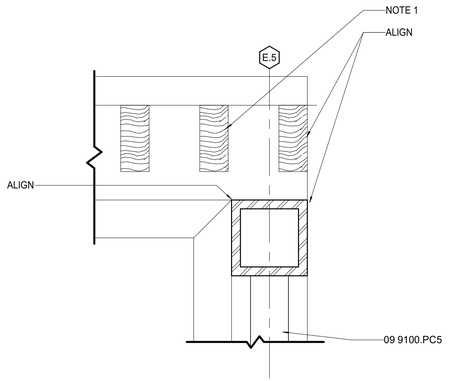
LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

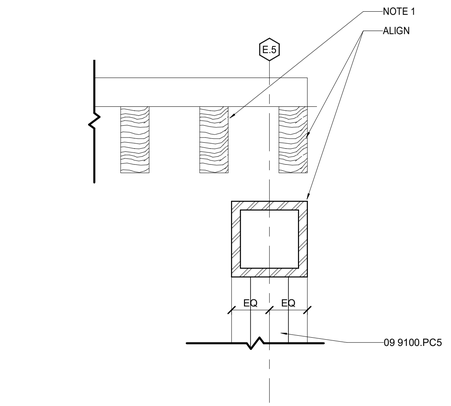
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:15 PM



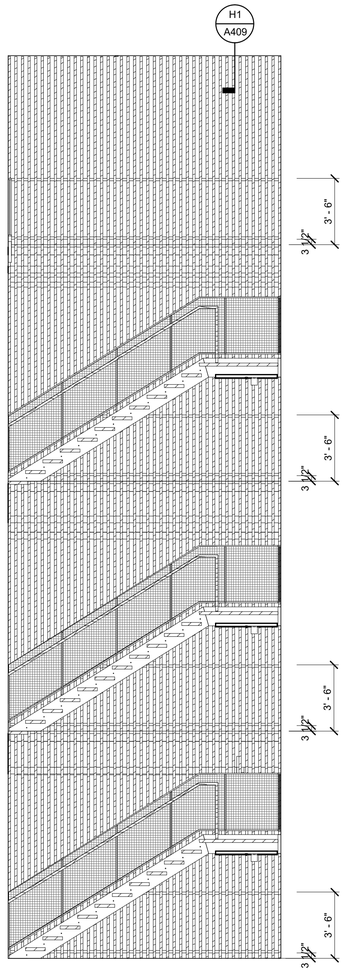
G1 PLAN DETAIL - WOOD SLATS
0 6 12 IN



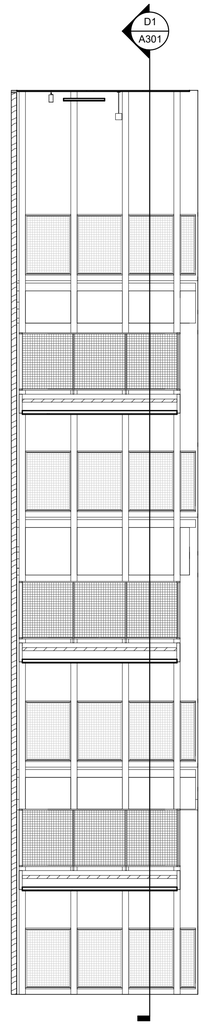
D1 PLAN DETAIL - WOOD SLATS AT STEEL1
0 6 12 IN



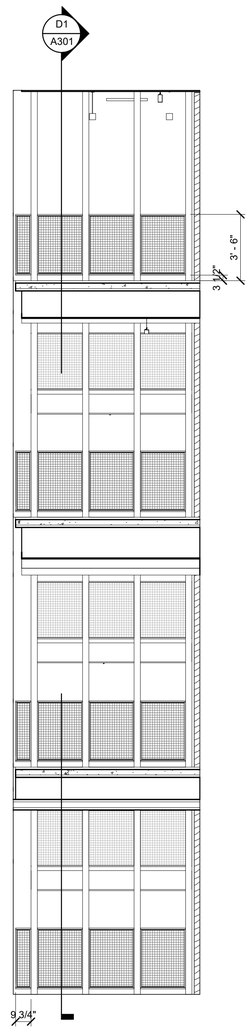
A1 PLAN DETAIL - WOOD SLATS AT STEEL
0 6 12 IN



A5 INT. ELEV. - STAIR A - NORTH



A8 INT. ELEV. - STAIR A - EAST



A11 INT. ELEV. - STAIR A - WEST

MATERIAL KEYNOTES

1 09 9100.PC5 PAINT COLOR 5

GENERAL NOTES

SHEET SPECIFIC NOTES

1. ARMSTRONG, WOODWORKS GRILLE, 5 1/4" SLAT VERTICAL OR SIMILAR.
2. HORIZONTAL WOOD SUPPORT AT 42" AFF.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:
1 Addendum #1 7/30/21

SHEET TITLE
VERTICAL CIRCULATION - STAIR A

SCALE (U.N.O.)
0 4 8 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

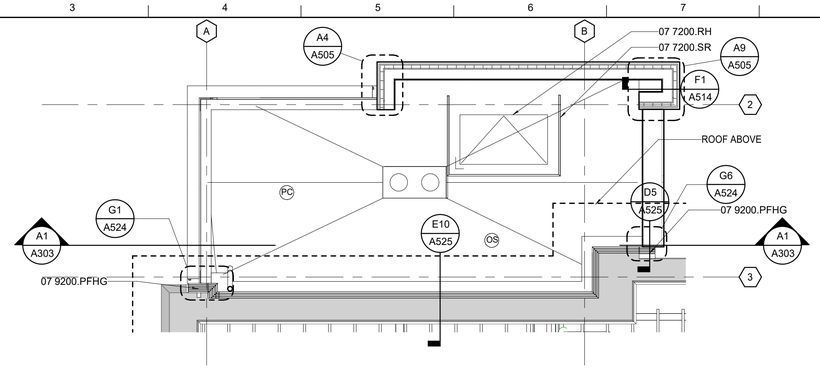
SEAL
Karen Gravel REGISTERED NO. 7266 COMMONWEALTH OF KENTUCKY ARCHITECT

ISSUE DATE
July 02, 2021

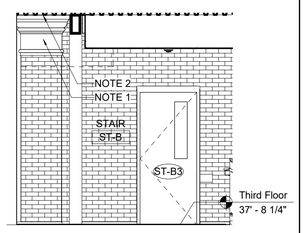
JOB. NO.
11396-00

DWG. NO.
A302

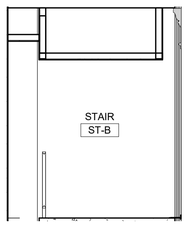
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:16 PM



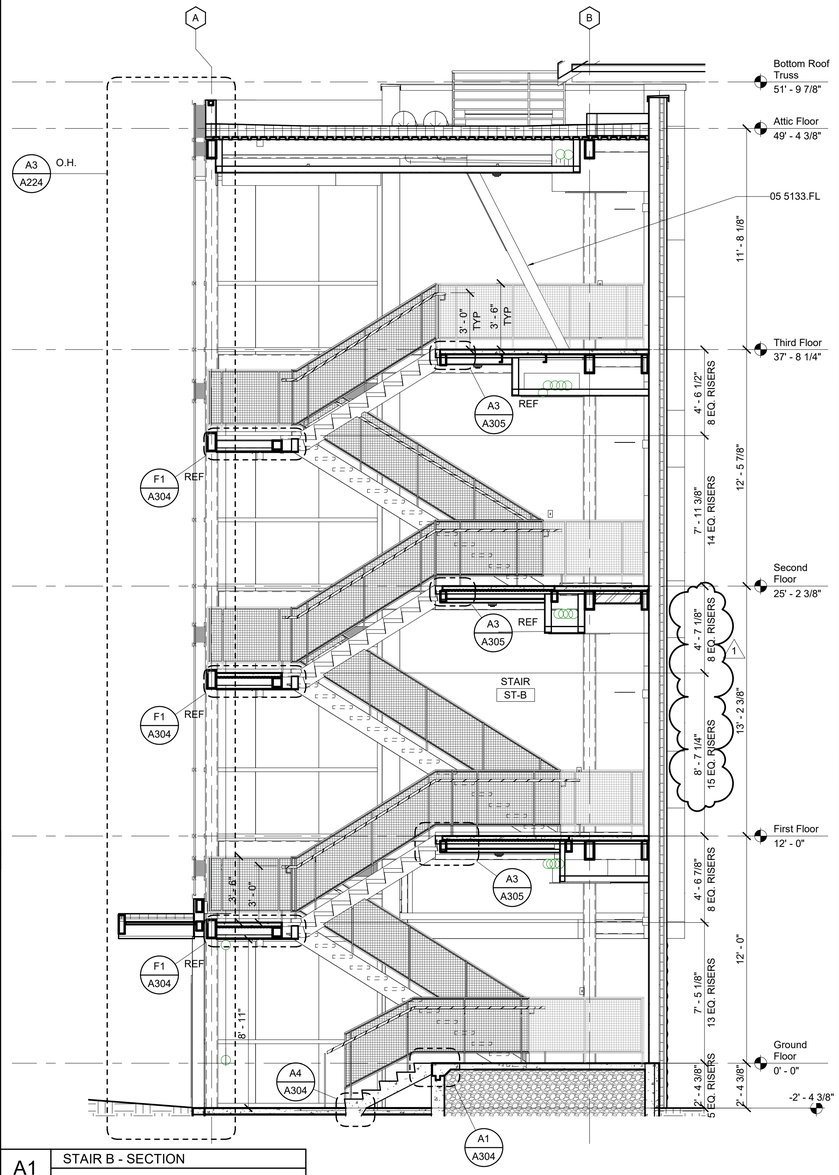
H1 STAIR B - ROOF PLAN



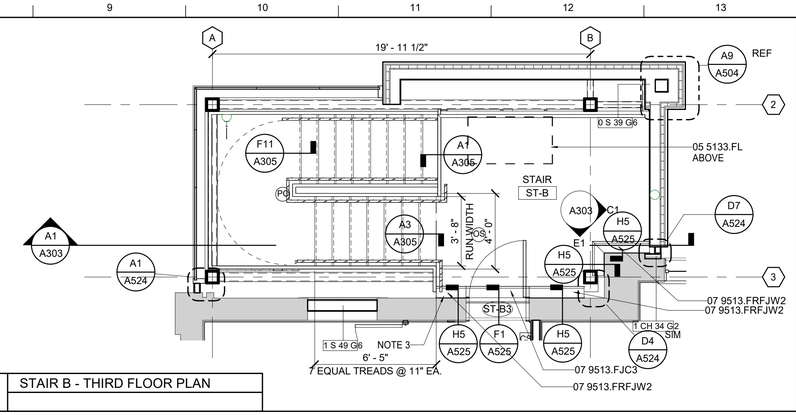
E1 INT. ELEV - STAIR B



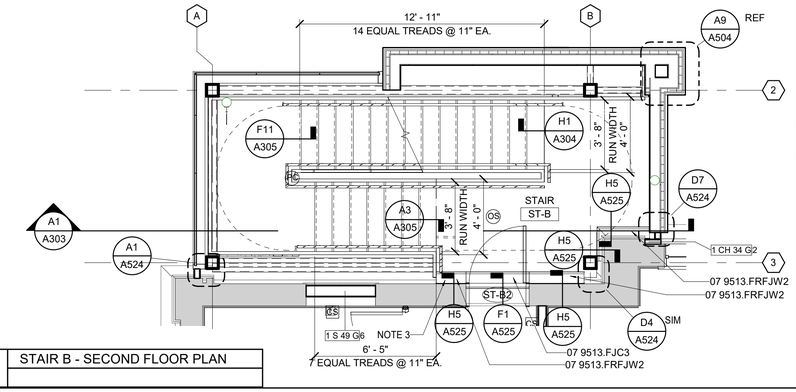
C1 INT. ELEV. - STAIR B



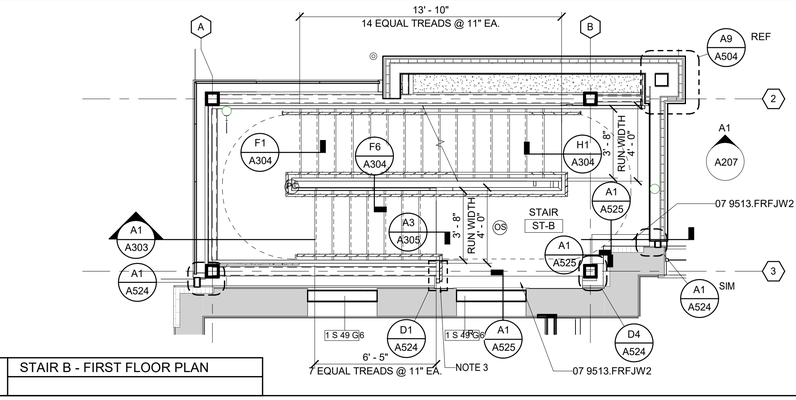
A1 STAIR B - SECTION



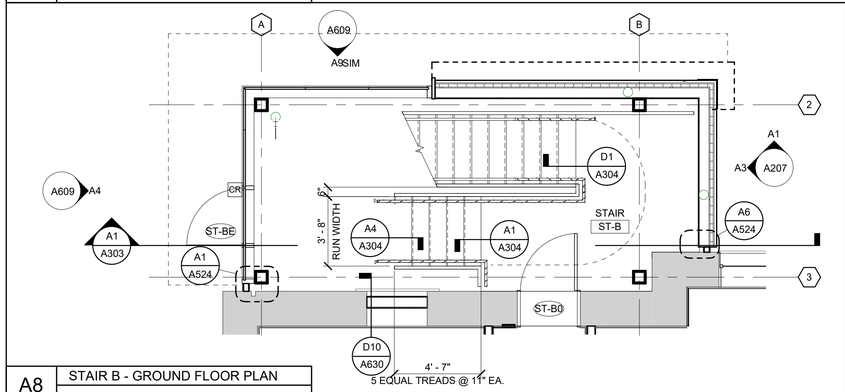
H8 STAIR B - THIRD FLOOR PLAN



F8 STAIR B - SECOND FLOOR PLAN



C8 STAIR B - FIRST FLOOR PLAN



A8 STAIR B - GROUND FLOOR PLAN

MATERIAL KEYNOTES

05 5133.FL	FOLDING LADDER
07 7200.RH	ROOF HATCH
07 7200.SR	SAFETY RAIL
07 9200.PFHG	PRECOMPRESSED FOAM SEAL, HORIZONTAL GRADE
07 9513.FJC3	INTERIOR FLOOR JOINT COVER 3
07 9513.FRFJW2	INTERIOR FIRE-RATED FLOOR/WALL JOINT COVER 2

GENERAL NOTES

SHEET SPECIFIC NOTES

1. EXISTING PILASTER.
2. EXPOSED ROOF DECKING AT PILASTER TO BE PAINTED.
3. GUARDRAILING ABOVE EXPANSION JOINT COVER TO EXTEND TOWARD WALL MINIMUM 2" TO MAXIMUM 4" FROM WALL OR AS INDICATED.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
VERTICAL CIRCULATION - STAIR B

SCALE (U.N.O.) 0 4 8 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

SEAL
Karen Grave
REGISTERED
NO. 7288
COMMONWEALTH OF KENTUCKY
ARCHITECT

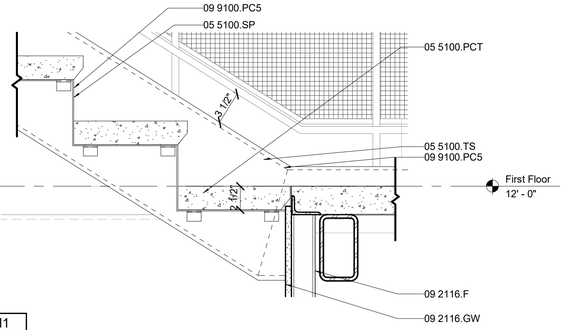
ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

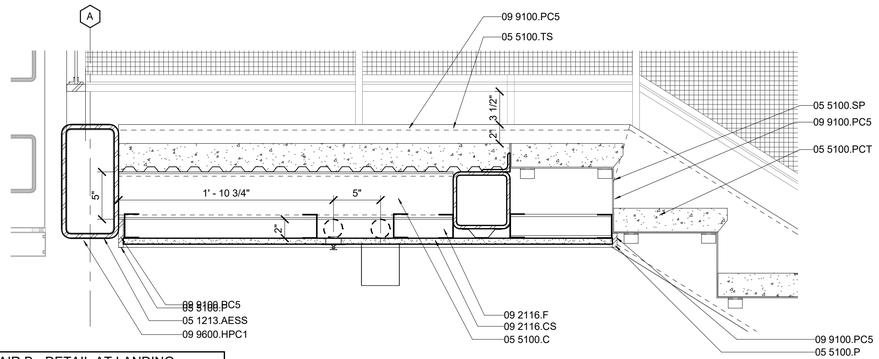
DWG. NO.
A303

PROJECT NORTH

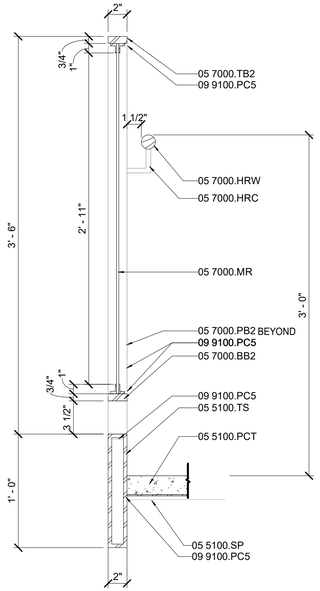
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:19 PM



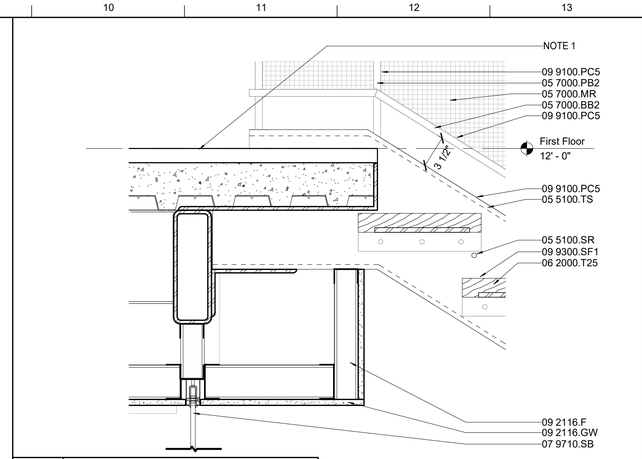
H1 STAIR B - BOTTOM OF STEEL PAN1



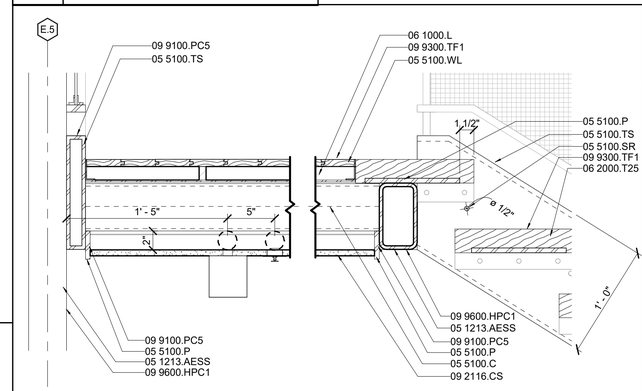
F1 STAIR B - DETAIL AT LANDING



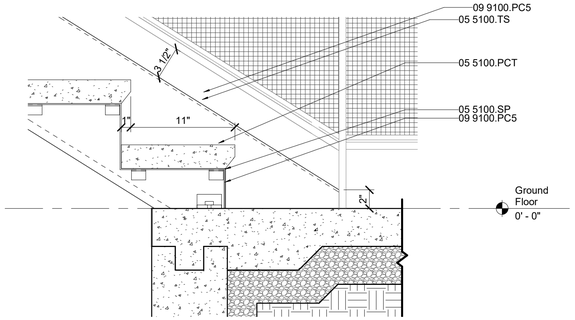
F6 STAIR B - RAILING



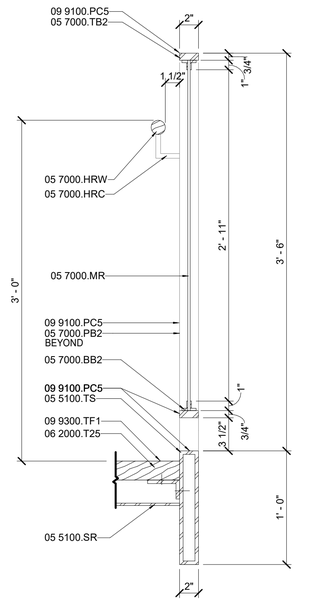
H10 STAIR A - DETAIL TOP OF STAIR



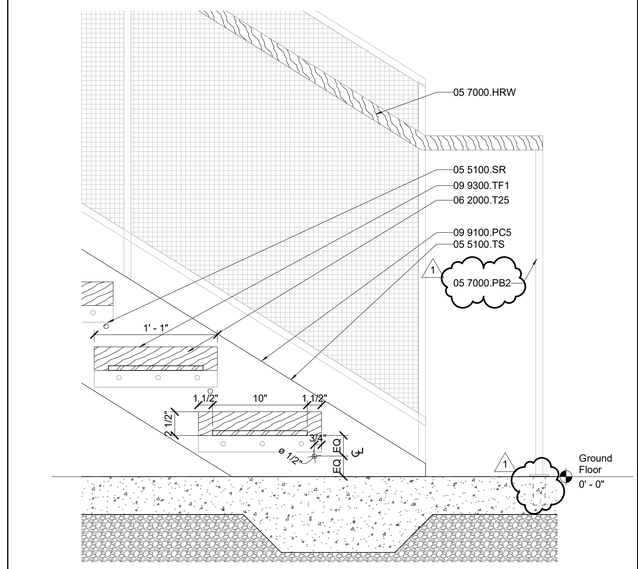
E10 STAIR A - DETAIL AT LANDING



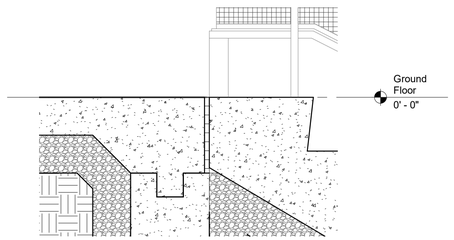
D1 STAIR B - BOTTOM OF STEEL PAN



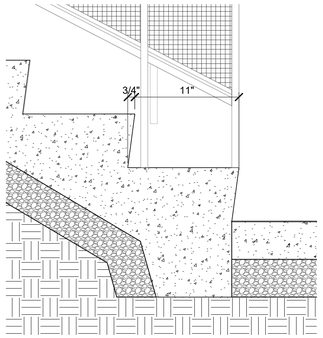
A6 STAIR A - RAILING



A10 STAIR A - FOOTING



A1 STAIR B - TOP OF CONCRETE STAIR



A4 STAIR B - FOOTING

MATERIAL KEYNOTES

05 1213.AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
05 5100.C	STEEL C CHANNEL
05 5100.P	1/2" STEEL PLATE
05 5100.PCT	PRECAST CONCRETE TREAD
05 5100.SP	STEEL PAN
05 5100.SR	STEEL ROD
05 5100.TS	STEEL TUBE STRINGER
05 5100.WL	WOOD STAIR LANDING
05 7000.BB2	STEEL BAR BOTTOM RAIL 3/4 X 2
05 7000.HRC	HANDRAIL BRACKET CARBON STEEL
05 7000.HRW	HANDRAIL WALL MOUNTED
05 7000.MR	METAL RAIL
05 7000.PB2	STEEL BAR POST 3/4 X 2
05 7000.TB2	STEEL BAR TOP RAIL 3/4 X 2
06 1000.L	LUMBER
06 2000.T25	2 1/2" WOOD STAIR TREAD
07 9710.SB	SMOKE BAFFLES
09 2116.CS	INTERIOR GYPSUM CEILING/SOFFIT
09 2116.F	FRAMING
09 2116.GW	GYPSUM WALLBOARD
09 9100.PC5	PAINT COLOR 5
09 9300.SF1	STAINED FINISH 1
09 9300.TF1	TRANSPARENT FINISH 1
09 9600.HPC1	HIGH PERFORMANCE COATING COLOR 1

GENERAL NOTES

SHEET SPECIFIC NOTES

1. FINISH FLOORING PER FINISH SCHEDULE AND PLANS.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE
VERTICAL CIRCULATION - STAIR DETAILS

SCALE (U.N.O.) 0 1 2" IN

JOB NAME
University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

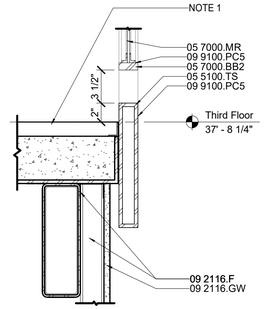
SEAL
Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

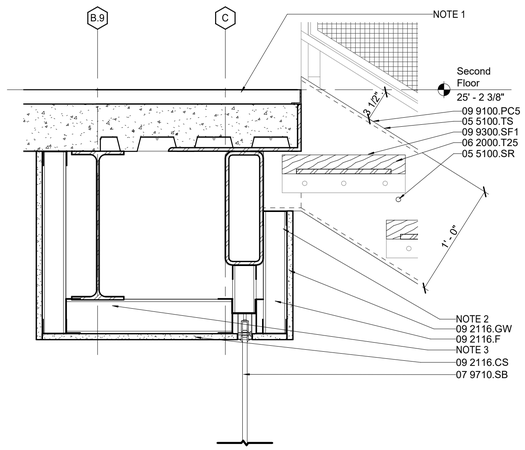
JOB. NO.
11396-00

DWG. NO.
A304

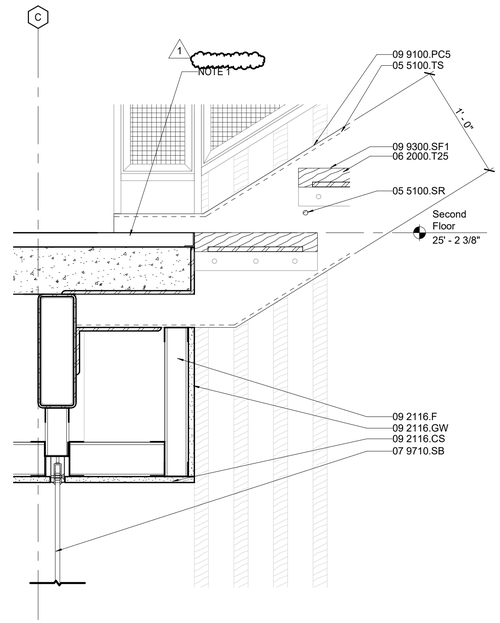
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:21 PM



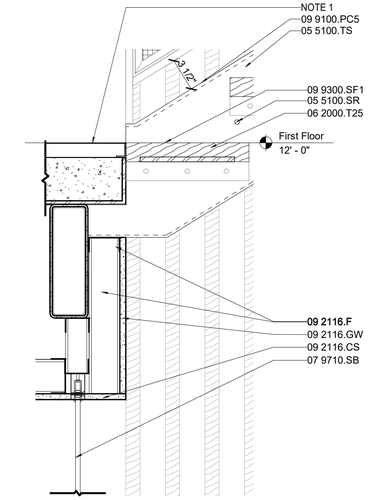
F1 STAIR A - GUARDRAIL DETAIL - 3F



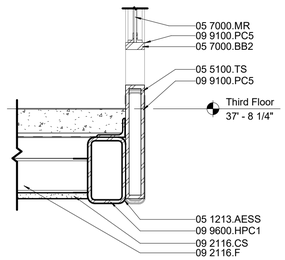
F3 STAIR A - TOP OF STAIR DETAIL



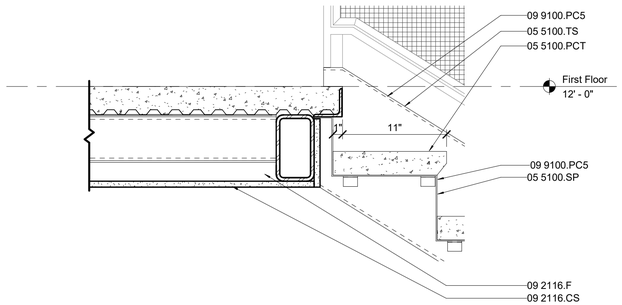
F7 STAIR A - DETAIL BASE OF STAIR 2F



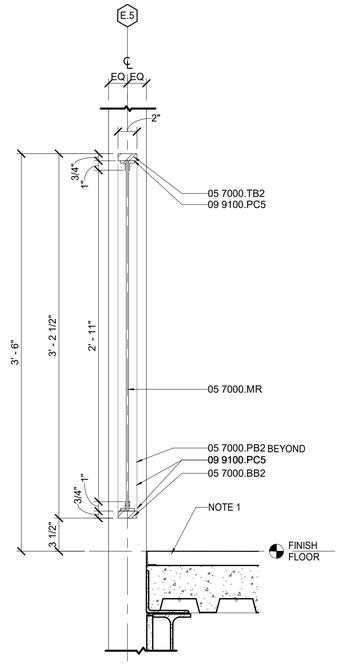
F11 STAIR A - DETAIL BASE OF STAIR 1F



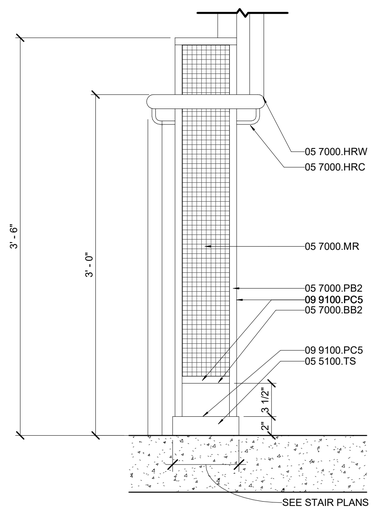
A1 STAIR B - GUARDRAIL DETAIL - 3F



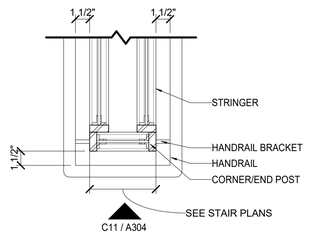
A3 STAIR B - TOP OF STAIR DETAIL



A8 STAIR A - TYP. GUARDRAIL @ POSTS



C11 STAIR GUARDRAIL ELEVATION



A11 STAIR GUARDRAIL PLAN

MATERIAL KEYNOTES

05 1213.AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
05 5100.PCT	PRECAST CONCRETE TREAD
05 5100.SP	STEEL PAN
05 5100.SR	STEEL ROD
05 5100.TS	STEEL TUBE STRINGER
05 7000.BB2	STEEL BAR BOTTOM RAIL 3/4 X 2
05 7000.HRC	HANDRAIL BRACKET CARBON STEEL
05 7000.HRW	HANDRAIL WALL MOUNTED
05 7000.MR	METAL RAIL
05 7000.PB2	STEEL BAR POST 3/4 X 2
05 7000.TB2	STEEL BAR TOP RAIL 3/4 X 2
06 2000.T25	2 1/2" WOOD STAIR TREAD
07 9710.SB	SMOKE BAFFLES
09 2116.CS	INTERIOR GYPSUM CEILING/SOFFIT
09 2116.F	FRAMING
09 2116.GW	GYPSUM WALLBOARD
09 9100.PC5	PAINT COLOR 5
09 9300.SF1	STAINED FINISH 1
09 9600.HPC1	HIGH PERFORMANCE COATING COLOR 1

GENERAL NOTES

SHEET SPECIFIC NOTES

1. FINISH FLOORING PER FINISH SCHEDULE AND PLANS.
2. ADJUST FRAMING PER STRUCTURE AT EACH FLOOR. 7/8"
3. HAT CHANNEL AND 5/8" GYP CEILING ON UNDERSIDE OF BEAM AT THIRD FLOOR.

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO. 7288
COMMONWEALTH OF KENTUCKY
ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
VERTICAL CIRCULATION - STAIR DETAILS

SCALE (U.N.O.)
1" = 2" IN

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

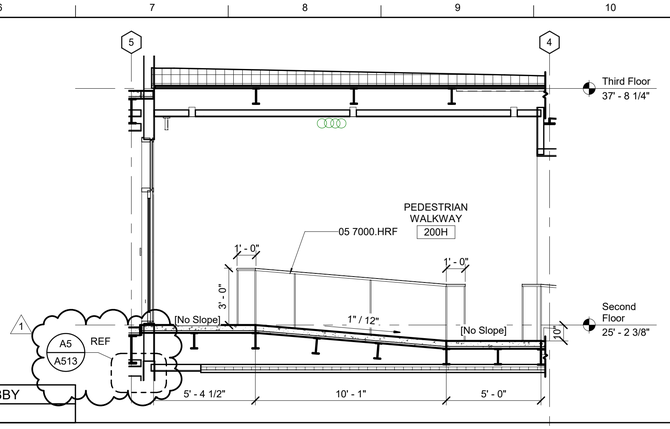
LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

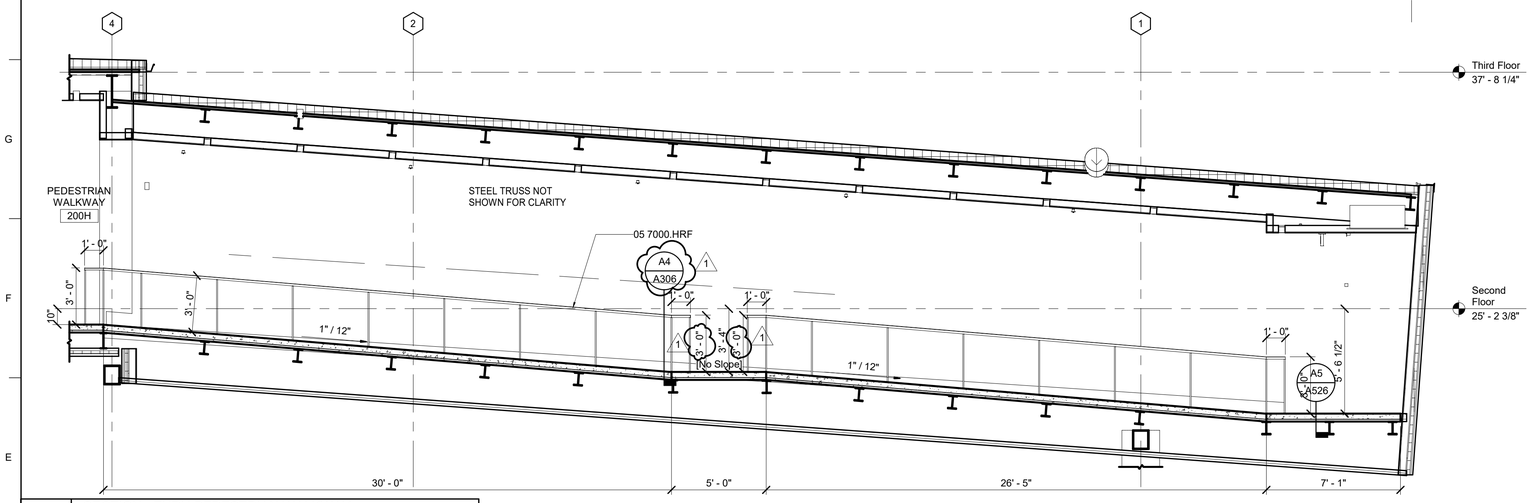
JOB. NO.
11396-00

DWG. NO.
A305

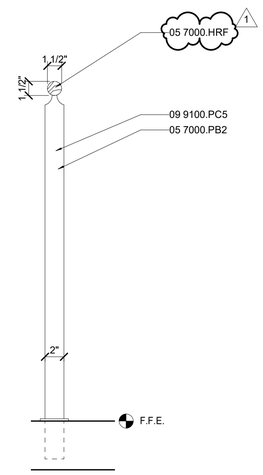
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:23 PM



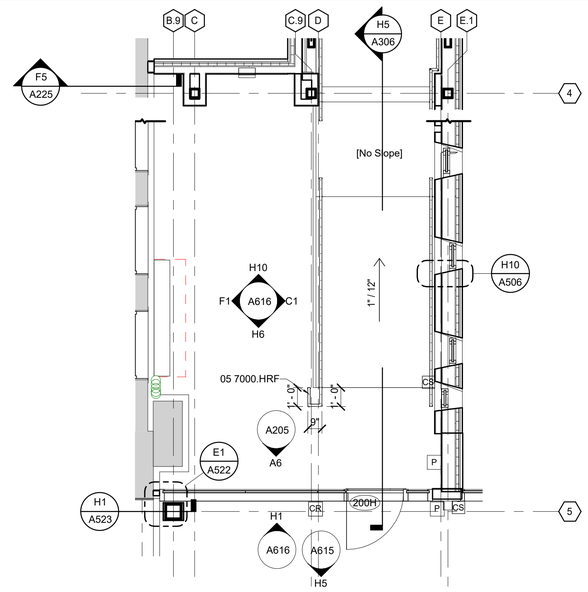
H5 SECTION - WALKWAY LOBBY



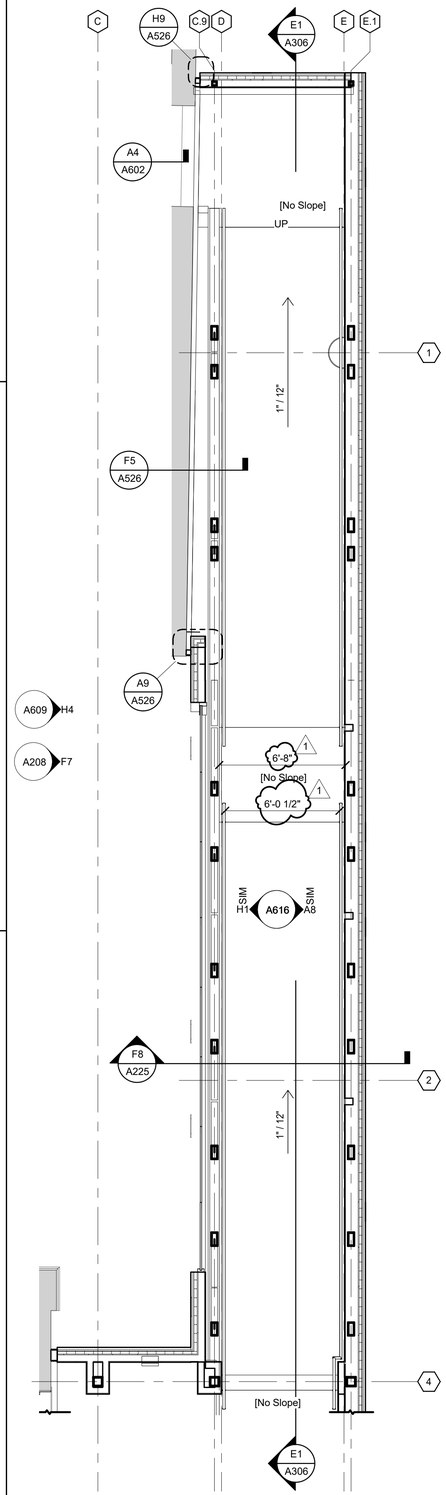
E1 SECTION - THRU PEDESTRIAN WALKWAY



A4 WALKWAY GUARDRAIL



A6 ENLARGED PLAN - WALKWAY LOBBY



A11 ENLARGED PLAN - PEDESTRIAN WALKWAY

MATERIAL KEYNOTES

05 7000.HRF	HANDRAIL FLOOR MOUNTED
05 7000.PB2	STEEL BAR POST 3/4 X 2
09 9100.PC5	PAINT COLOR 5

GENERAL NOTES

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
VERTICAL CIRCULATION - PEDESTRIAN WALKWAY - ALTERNATE 4

SCALE (U.N.O.)
0 4 8 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

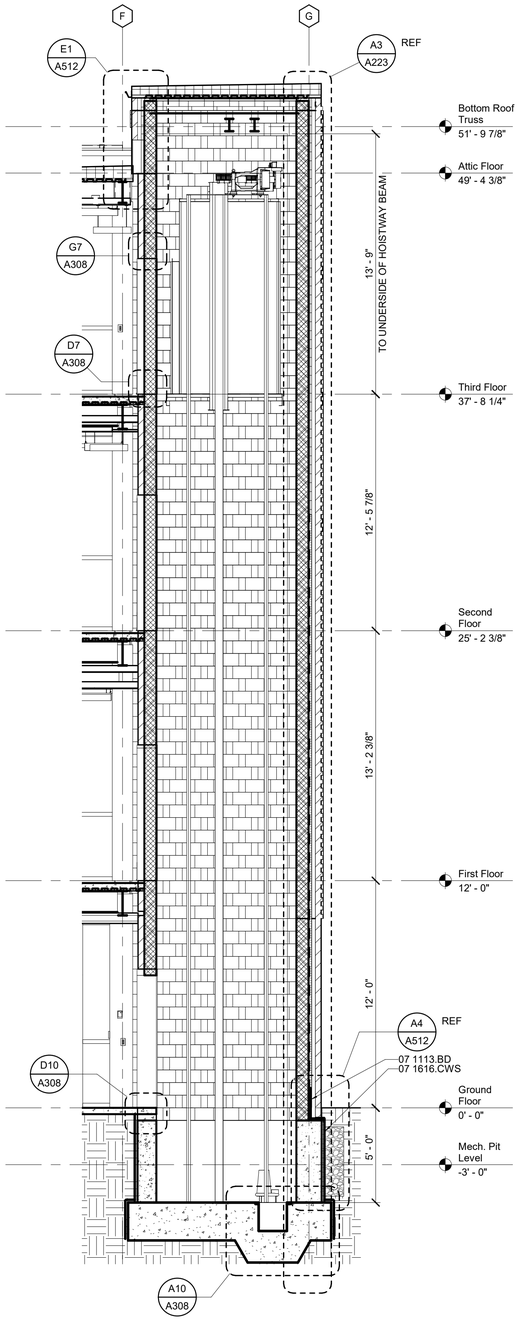
SEAL
Karen Gravel
REGISTERED
NO. 7298
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

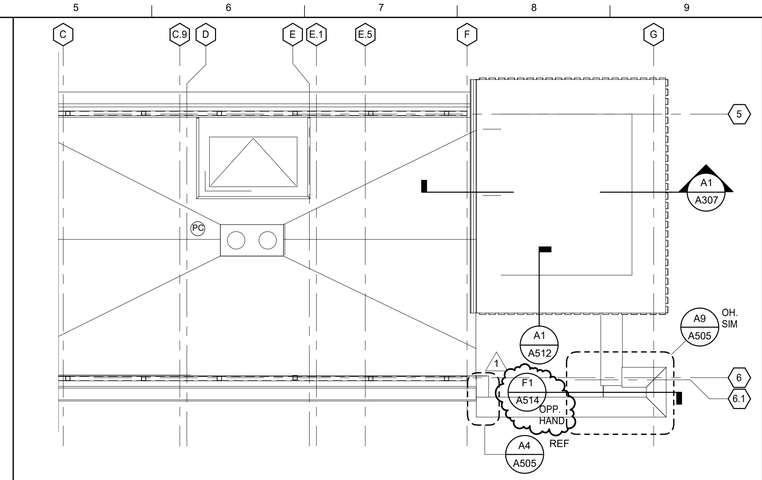
JOB. NO.
11396-00

DWG. NO.
A306

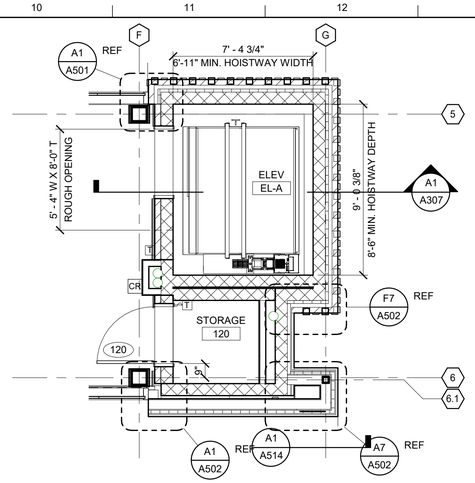
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:25 PM



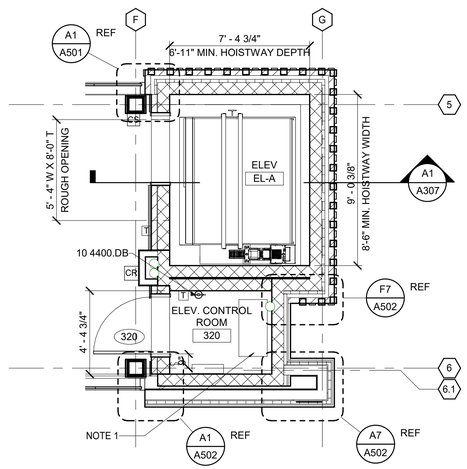
A1 SECTION - ELEVATOR



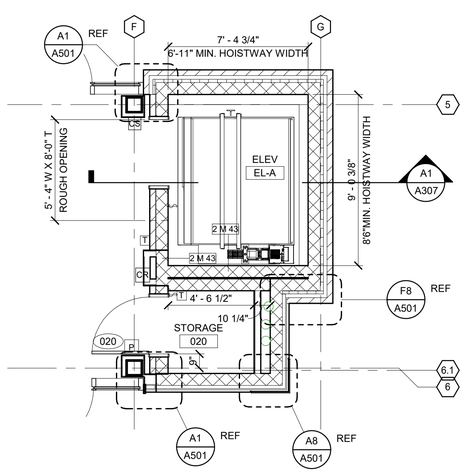
H5 ELEVATOR ROOF PLAN



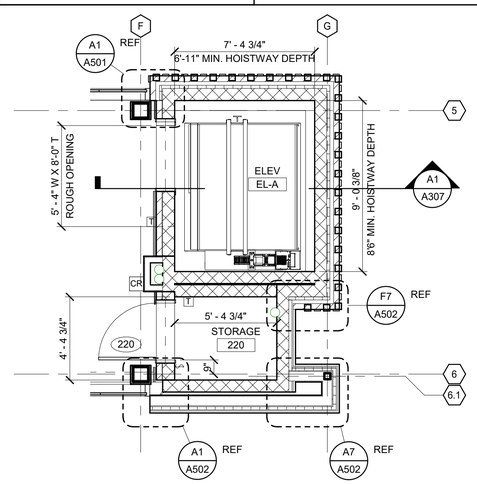
H10 ELEVATOR FIRST FLOOR PLAN



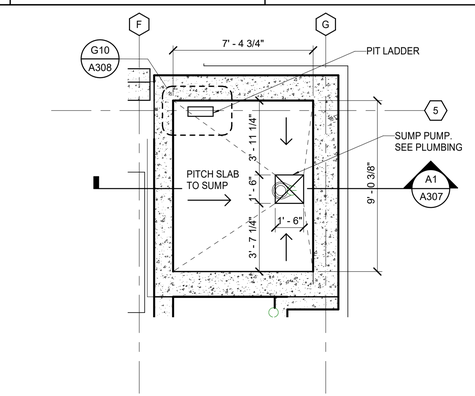
D6 ELEVATOR THIRD FLOOR PLAN



D10 ENLARGED PLAN - ELEV - GF



A6 ELEVATOR SECOND FLOOR PLAN



A10 ELEVATOR PIT PLAN

MATERIAL KEYNOTES

07 1113.BD	BITUMINOUS DAMP-PROOFING
07 1616.CWS	CRYSTALLINE WATERPROOFING SLURRY
10 4400.DB	DRY CHEMICAL FE AND BRACKET

GENERAL NOTES

SHEET SPECIFIC NOTES

1. ELEVATOR CONTROLLER LOCATION. SEE ELEVATOR REQUIREMENTS. MAIN POWER DISCONNECTS, CAB LIGHT DISCONNECTS AND FIRE ALARM MODULES LOCATION. SEE ELECTRICAL

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: VERTICAL CIRCULATION - ELEVATOR

SCALE (U.N.O.): 0 4 8FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

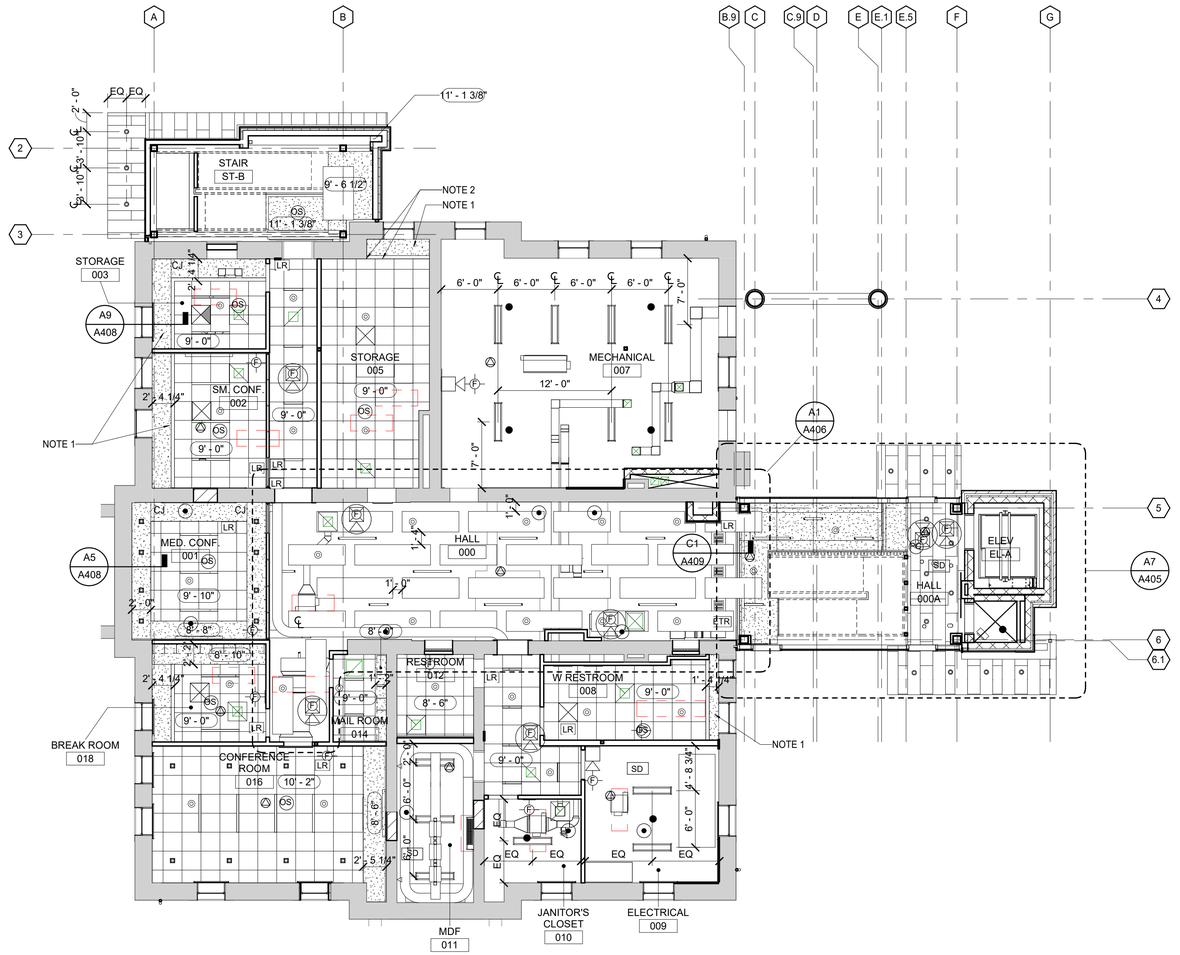
Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A307

BIM 360://11396-00 UK Frazee Hall\Central_11396-00_v21.rvt
7/29/2021 10:50:29 PM



RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. GYP FURRING ON UNDERSIDE OF STRUCTURE.
2. ALIGN FACE OF SOFFIT WITH EXISTING WALL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: GROUND FLOOR REFLECTED CEILING PLAN
SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

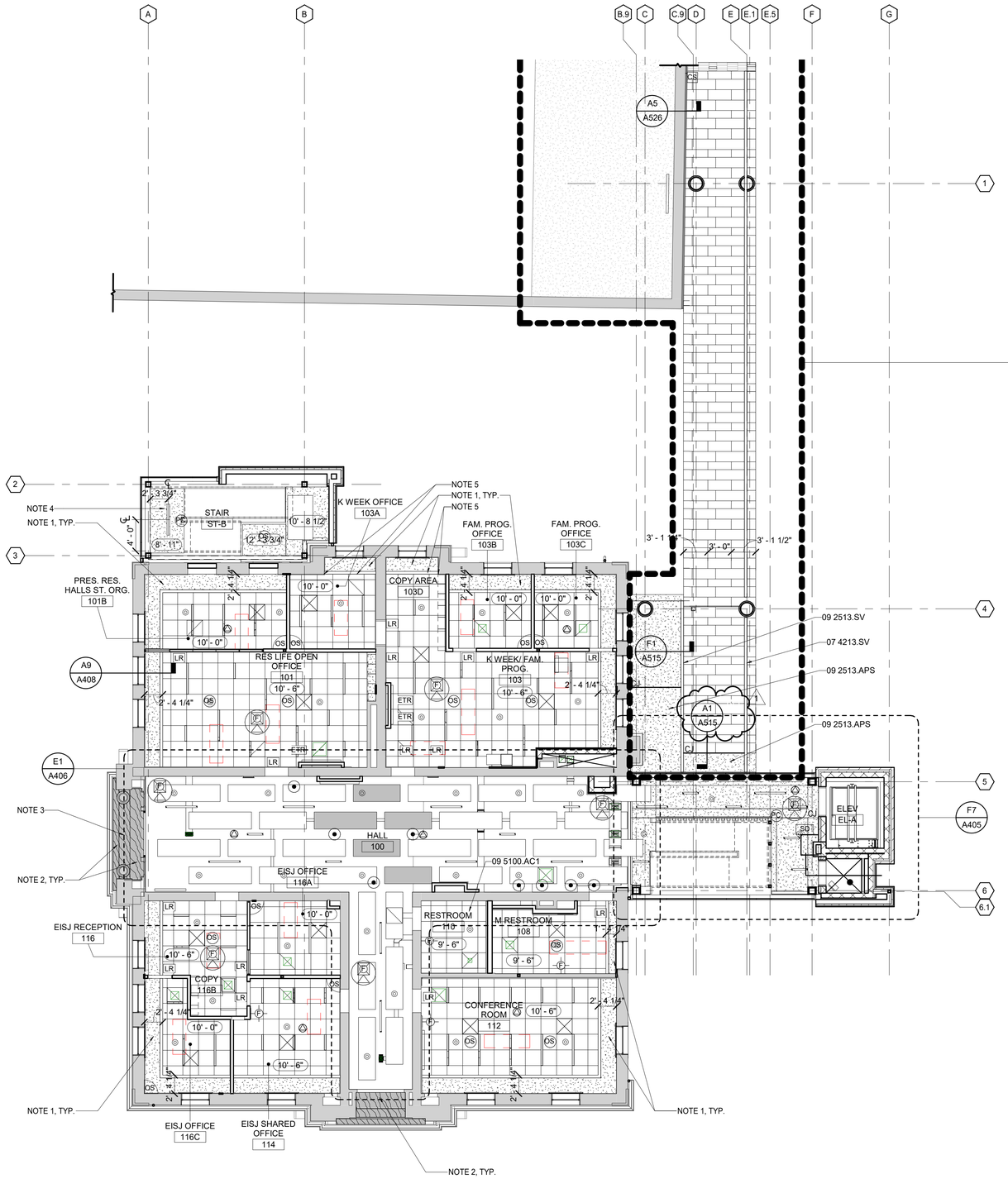
KEY PLAN
PROJECT NORTH

SEAL: Karen Gravel REGISTERED NO. 7298 COMMONWEALTH OF KENTUCKY ARCHITECT

ISSUE DATE: July 02, 2021
JOB. NO.: 11396-00
DWG. NO.: A400

A1 GROUND FLOOR REFLECTED CEILING PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:31 PM



RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. GYP FURRING ON UNDERSIDE OF STRUCTURE
2. REMOVE PAINT, PATCH AND REPAIR WOOD AS NECESSARY TO PROVIDE A SMOOTH SURFACE, AND REPAINT WITH FINAL COATING.
3. INVESTIGATE STEEL LINTEL AND COORDINATE WITH STRUCTURAL IF REPLACEMENT IS NEEDED. OTHERWISE, PAINT, PATCH, OR REPAIR AS NECESSARY TO PROVIDE A SMOOTH SURFACE AND REPAINT WITH FINAL COATING.
4. GYP FURRING AT UNDERSIDE OF INTERMEDIATE LANDING. SEE F1 / A304.
5. ALIGN FACE OF SOFFIT WITH EXISTING WALL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: FIRST FLOOR REFLECTED CEILING PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Grave, REGISTERED, NO. 7288, COMMONWEALTH OF KENTUCKY, ARCHITECT

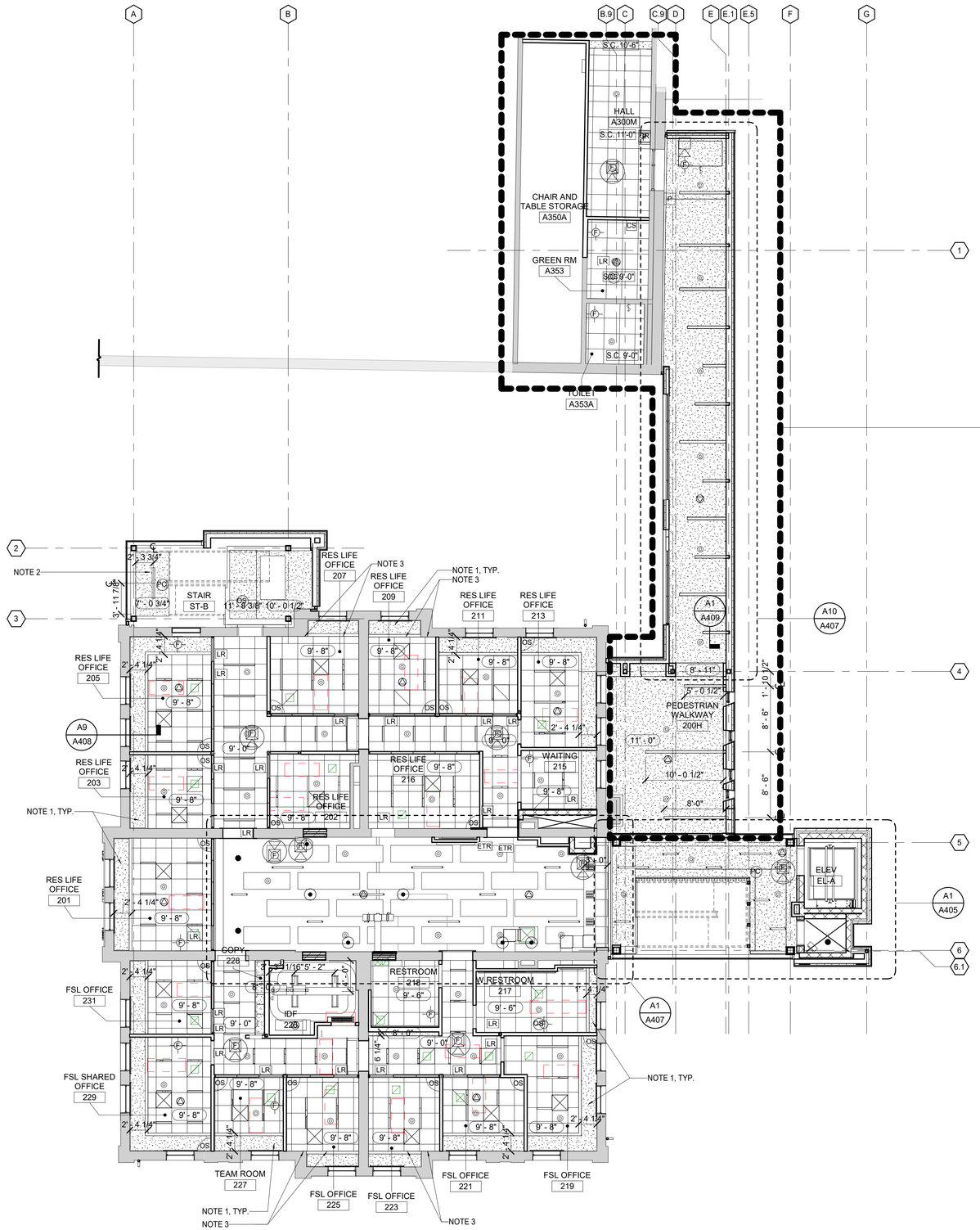
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A401

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_ v21.rvt
7/29/2021 10:50:34 PM

A1 | FIRST FLOOR REFLECTED CEILING PLAN



RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. GYP FURRING ON UNDERSIDE OF STRUCTURE.
2. GYP FURRING AT UNDERSIDE OF INTERMEDIATE LANDING. SEE F1 / A304.
3. ALIGN FACE OF SOFFIT WITH EXISTING WALL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE: SECOND FLOOR REFLECTED CEILING PLAN
SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

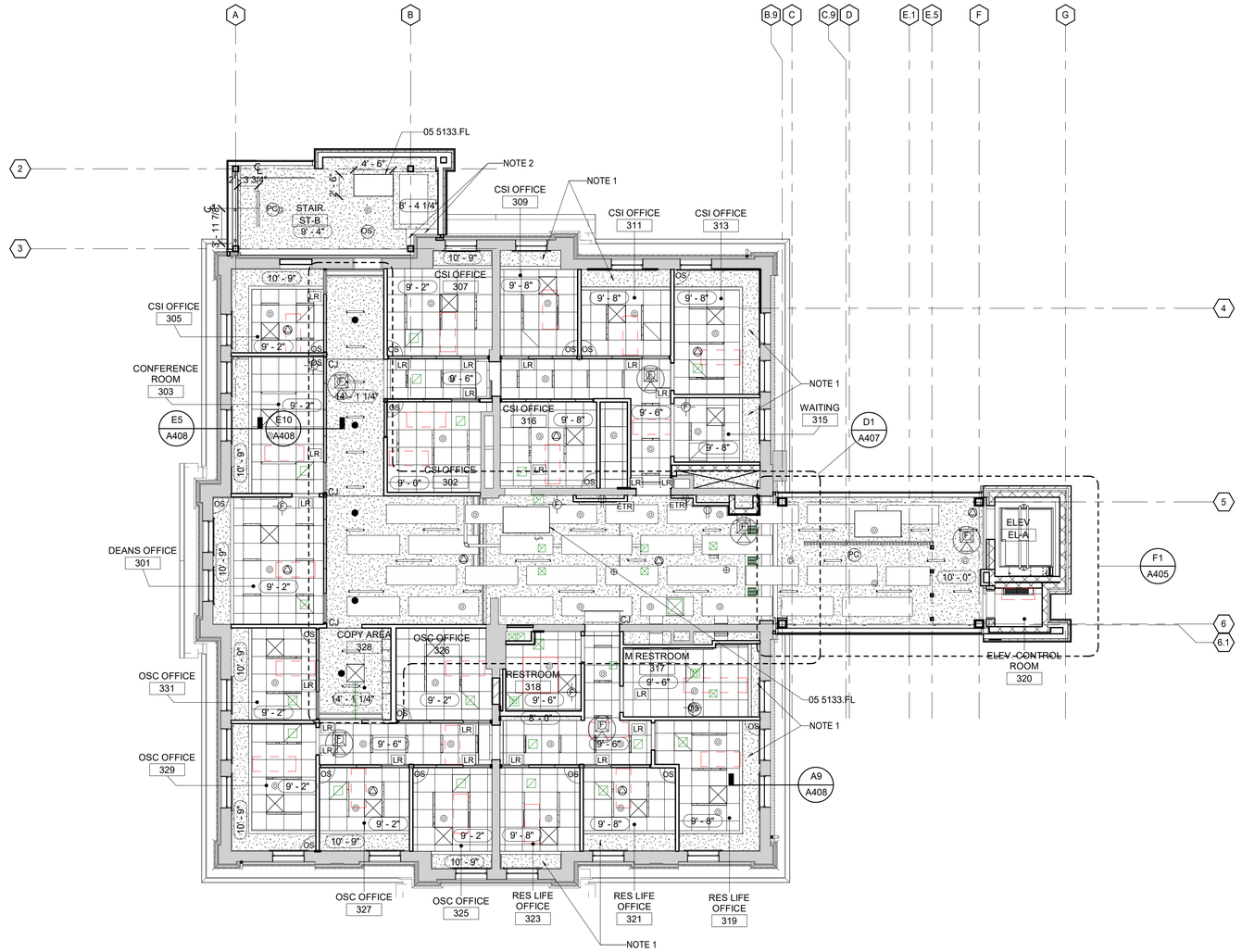
PROJECT NORTH

SEAL: Karen Grave REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

ISSUE DATE: July 02, 2021
JOB. NO. 11396-00
DWG. NO. A402

A1 SECOND FLOOR REFLECTED CEILING PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:37 PM



MATERIAL KEYNOTES

05 5133.FL FOLDING LADDER

RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

1
A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. GYP FURRING ON UNDERSIDE OF STRUCTURE.
2. EXPOSED STRUCTURE AND DECKING.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: THIRD FLOOR REFLECTED CEILING PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky 2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: Karen Gravel REGISTERED NO. 7288 COMMONWEALTH OF KENTUCKY ARCHITECT

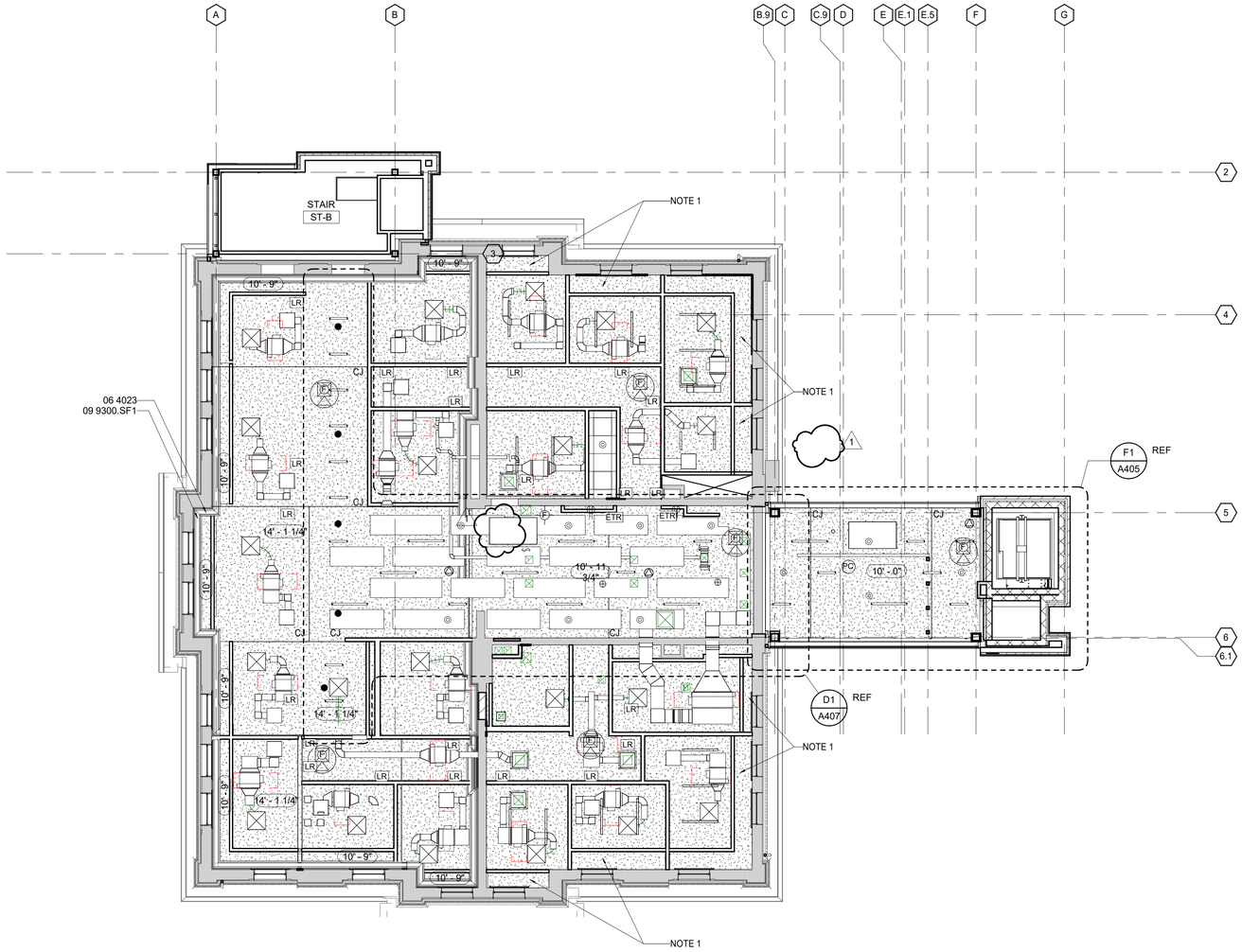
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A403

A1 THIRD FLOOR REFLECTED CEILING PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:39 PM



MATERIAL KEYNOTES

06 4023	INTERIOR ARCHITECTURAL WOODWORK RESTORATION
09 9300.SF1	STAINED FINISH 1

RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. GYP FURRING ON UNDERSIDE OF STRUCTURE.
2. NOT USED.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: THIRD FLOOR REFLECTED CEILING PLAN

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH OF
KENTUCKY
ARCHITECT

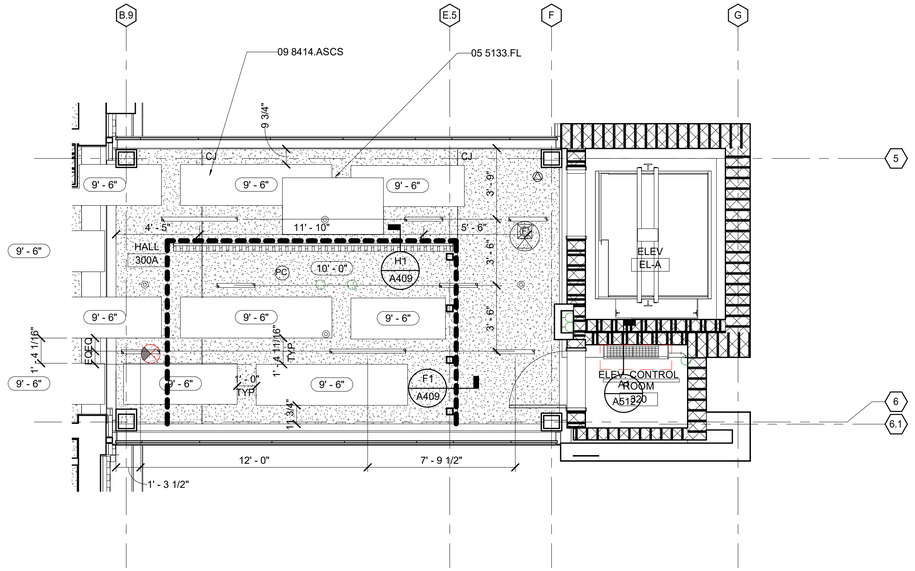
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

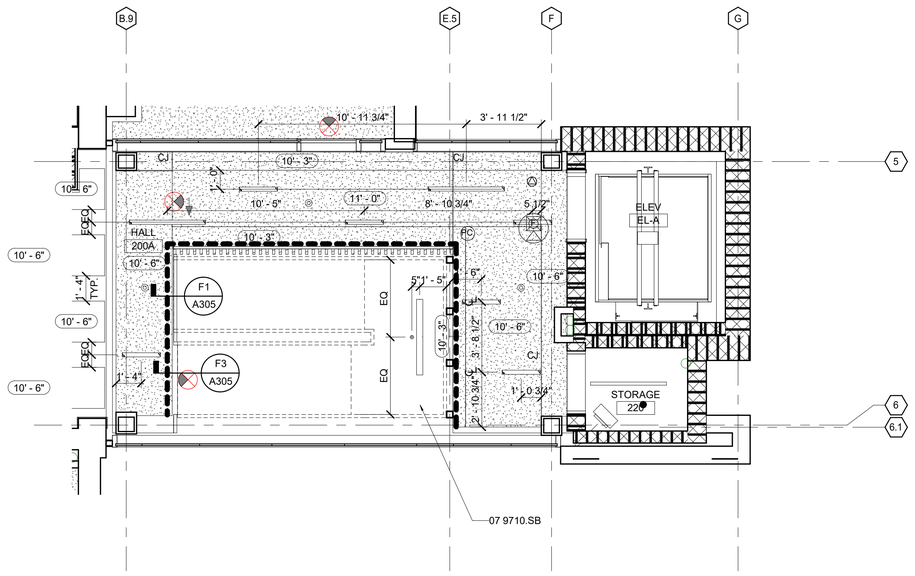
DWG. NO.: A404

A1 THIRD FLOOR REFLECTED UPPER CEILING PLAN

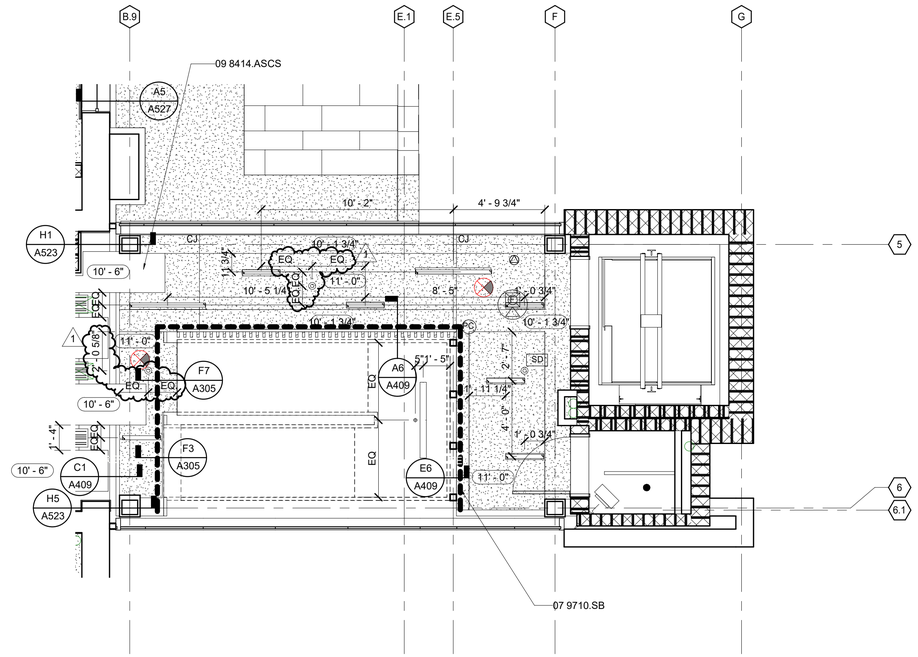
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:43 PM



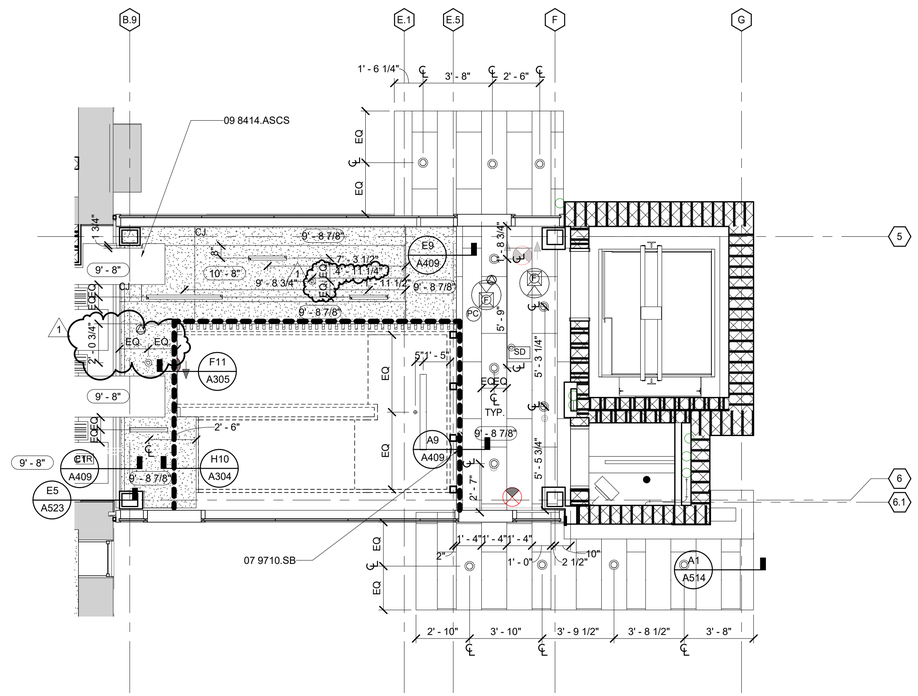
F1 ENLARGED RCP - THIRD FLOOR - STAIR A



A1 ENLARGED RCP - SECOND FLOOR - STAIR A



F7 ENLARGED RCP - FIRST FLOOR - STAIR A



A7 ENLARGED RCP - GROUND FLOOR - STAIR A

MATERIAL KEYNOTES

05 5133.FL	FOLDING LADDER
07 9710.SB	SMOKE BAFFLES
09 8414.ASCS	ACOUSTIC STRETCHED-FABRIC CEILING SYSTEMS

RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

1
A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE: ENLARGED REFLECTED CEILING PLANS

SCALE (U.N.O.): 0 4 8 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

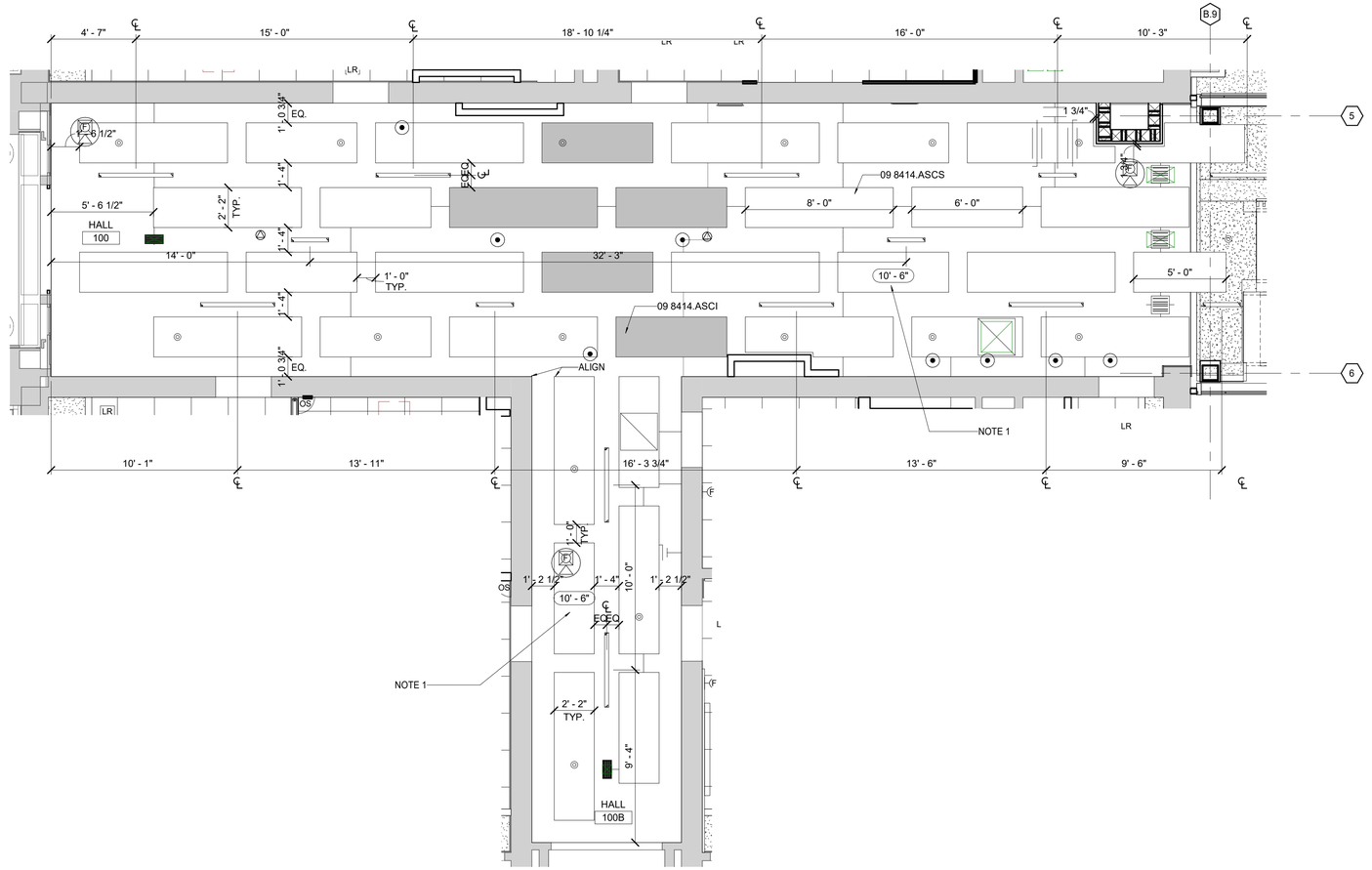
Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

ISSUE DATE: July 02, 2021

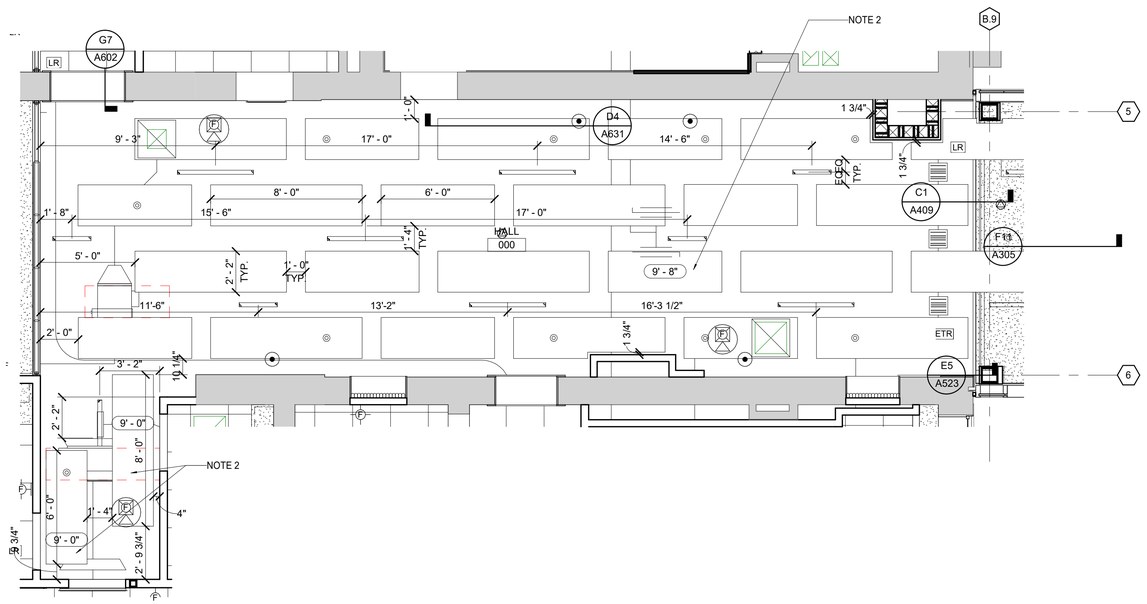
JOB. NO.: 11396-00

DWG. NO.: A405

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:45 PM



E1 ENLARGED RCP - 1F SPINE



A1 ENLARGED RCP - GF SPINE

MATERIAL KEYNOTES

09 8414.ASCI	ACOUSTIC STRETCHED-FABRIC CEILING SYSTEM WITH INTEGRAL LIGHT
09 8414.ASCS	ACOUSTIC STRETCHED-FABRIC CEILING SYSTEMS

RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 — 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 — ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 — EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

1
A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. ALL ACOUSTIC CEILING CLOUDS 10' - 6" ABOVE FLOOR FINISH ON FIRST FLOOR.
2. ALL ACOUSTIC CEILING CLOUDS 9' - 8" ABOVE FLOOR FINISH ON GROUND FLOOR U.N.O.

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel REGISTERED NO. 7282 COMMONWEALTH OF KENTUCKY ARCHITECT

Karen A. Gravel

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE: ENLARGED REFLECTED CEILING PLANS

SCALE (U.N.O.): 0 4 8 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

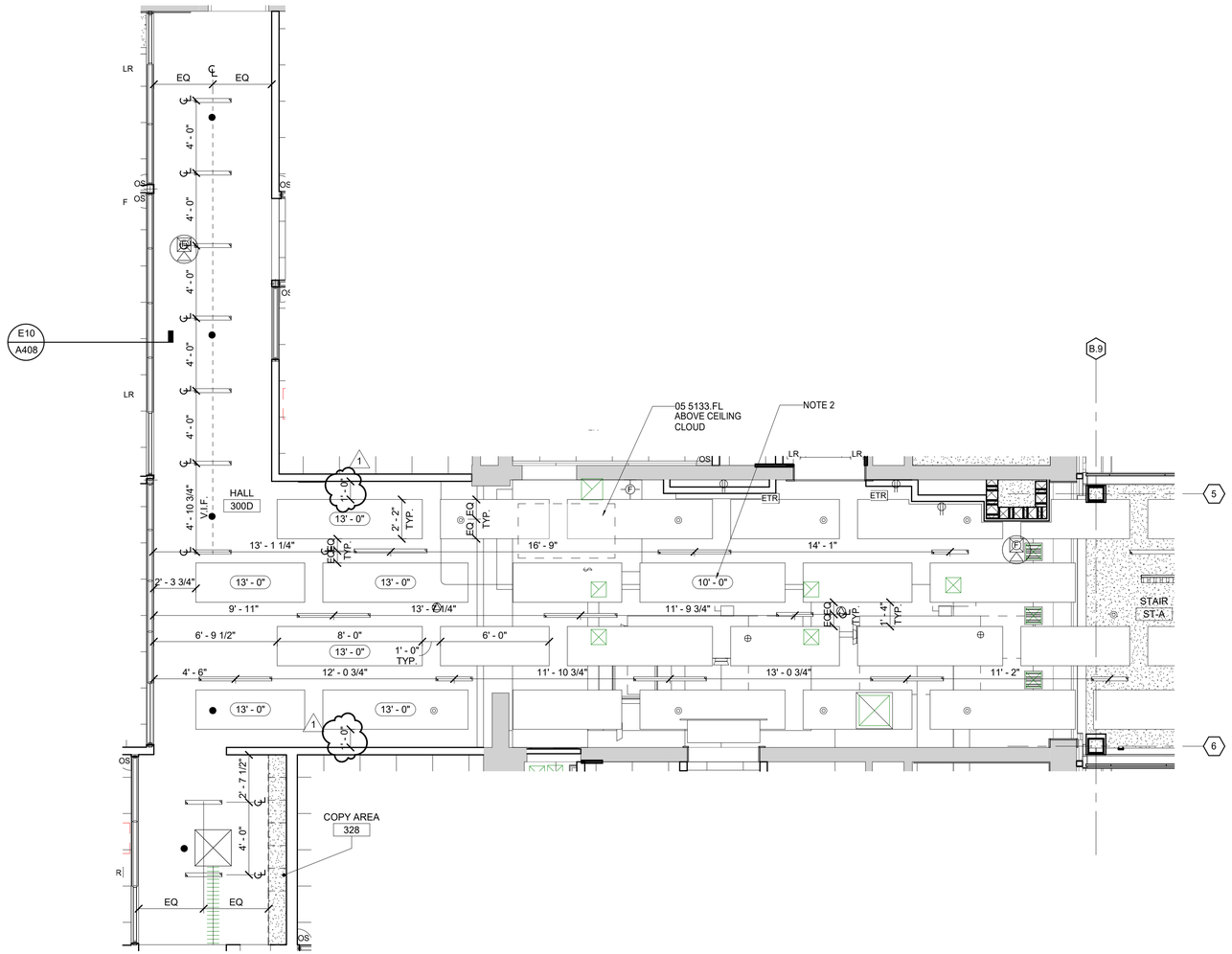
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 02, 2021

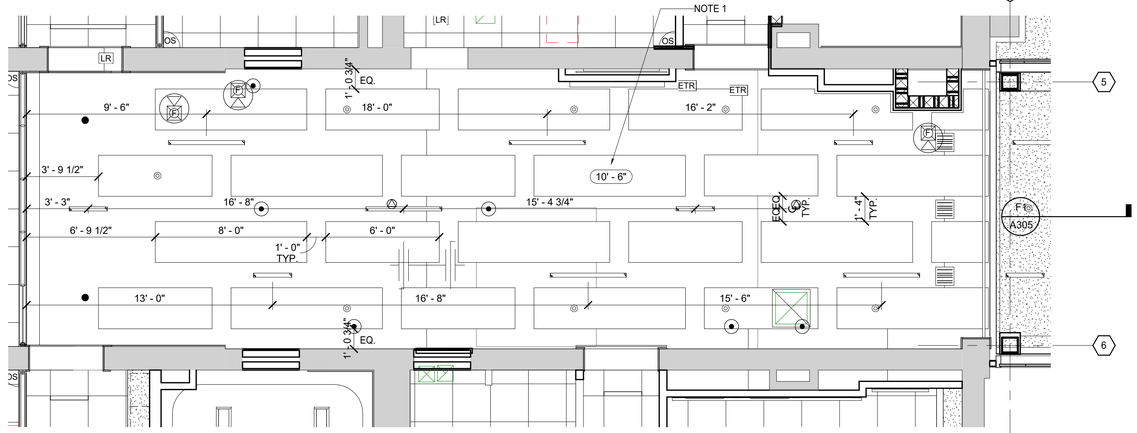
JOB. NO.: 11396-00

DWG. NO.: A406

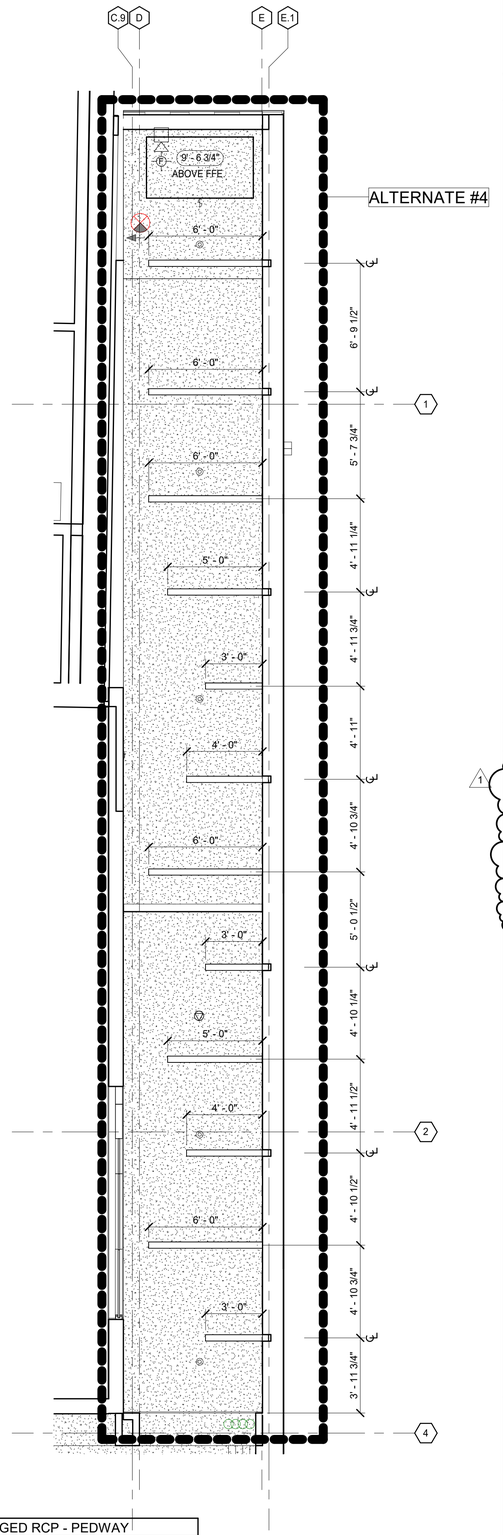
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:47 PM



D1 ENLARGED RCP - 3F SPINE



A1 ENLARGED RCP - 2F SPINE



A10 ENLARGED RCP - PEDWAY

MATERIAL KEYNOTES

05 5133.FL FOLDING LADDER

RCP LEGEND

- RECESSED LED CAN FIXTURE
- 2'x2' RECESSED SQUARE LED FIXTURE
- RECESSED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE - SIZE VARIES
- SUSPENDED LINEAR FIXTURE
- SUSPENDED ACOUSTIC CEILING CLOUD - SIZE VARIES
- 1 2' X 2' ACOUSTIC CEILING TILE SEE FINISH SCHEDULE
- GWB: GYPSUM CEILING/ SOFFIT
- OPEN TO STRUCTURE ABOVE
- 1 ZINC METAL PANEL 07 4213.MWP1 METAL WALL PANELS 1
- 1 EXISTING EXTERIOR WOOD SOFFIT 06 4900 EXTERIOR ARCHITECTURAL WOODWORK

GENERAL NOTES

1
A. INSTALL WINDOW SHADES AT ALL EXTERIOR WINDOWS. SEE SPECIFICATION 12 2413.
B. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED LIGHT FIXTURES.
C. ALL LIGHTS, SPRINKLER AND OTHER DEVICES MOUNTED IN LAY-IN CEILING PANELS ARE TO BE LOCATED IN THE CENTER OF THE PANEL UNLESS DIMENSIONED OTHERWISE.
D. CEILINGS TO BE TYPE AC1 UNLESS OTHERWISE SCHEDULED.
E. COORDINATE LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND TELECOM SPACES WITH LOCATIONS AND SIZES OF EQUIPMENT.
F. LOCATE VALVES AND OTHER ITEMS REQUIRING ACCESS ABOVE ACT CEILINGS WHENEVER POSSIBLE.

SHEET SPECIFIC NOTES

1. ALL ACOUSTIC CEILING CLOUDS 10' - 6" ABOVE FLOOR FINISH ON SECOND FLOOR.
2. ALL ACOUSTIC CEILING CLOUDS 10' - 0" ABOVE FLOOR FINISH ON 3RD FLOOR U.N.O.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE: ENLARGED REFLECTED CEILING PLANS

SCALE (U.N.O.): 0 4 8 FT

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

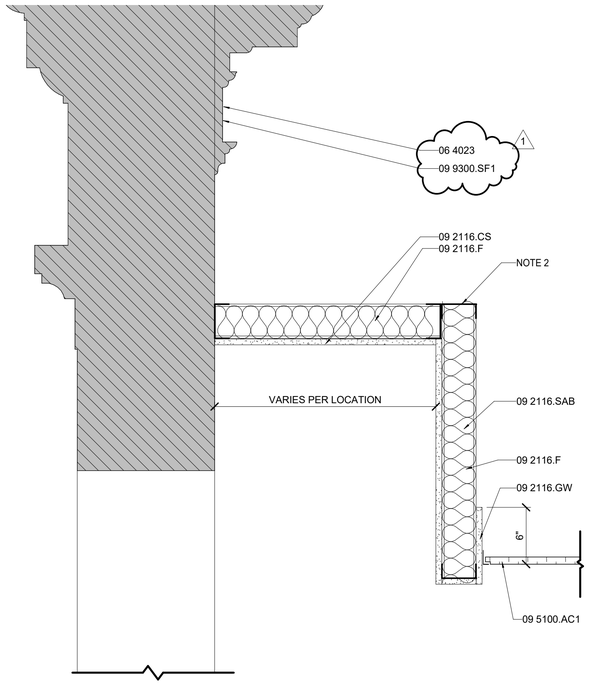
PROJECT NORTH

SEAL: Karen Gravel REGISTERED NO. 7286 COMMONWEALTH OF KENTUCKY ARCHITECT

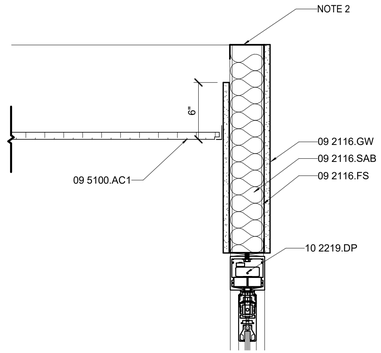
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

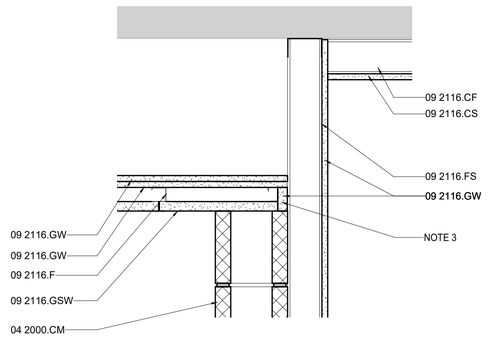
DWG. NO.: A407



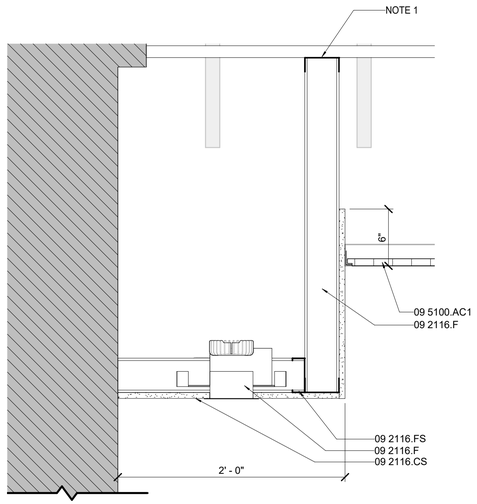
E5 SOFFIT DETAIL - THIRD FLOOR



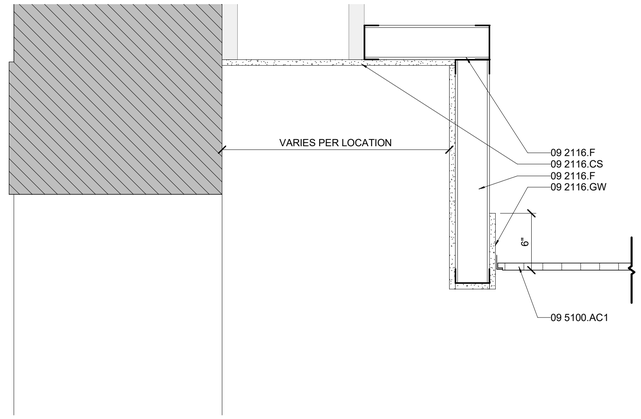
E10 TOP OF WALL DETAIL - THIRD FLOOR



A1 SHAFT TOP DETAIL



A5 SOFFIT DETAIL



A9 SOFFIT DETAIL

MATERIAL KEYNOTES

04 2000.CM	CONCRETE MASONRY UNITS
06 4023	INTERIOR ARCHITECTURAL WOODWORK RESTORATION
09 2116.CF	INTERIOR CEILING FRAMING
09 2116.CS	INTERIOR GYPSUM CEILING/SOFFIT
09 2116.F	FRAMING
09 2116.FS	METAL STUD
09 2116.GSW	GYPSUM SHAFT WALL
09 2116.GW	GYPSUM WALLBOARD
09 2116.SAB	SOUND ATTENUATION BATT
09 5100.AC1	ACOUSTICAL CEILING SYSTEM 1
09 9300.SF1	STAINED FINISH 1
10 2219.DP	DEMOUNTABLE PARTITIONS

GENERAL NOTES

SHEET SPECIFIC NOTES

1. ATTACH TO UNDERSIDE OF NEW SUBFLOOR.
2. HEADER TO SPAN HORIZONTALLY TO PERPENDICULAR WALLS.
3. PROVIDE FIRE RATING CONTINUITY AT WALL JUNCTION WITH RETURNING GYPSUM BOARD.

KEY PLAN

PROJECT NORTH

SEAL

Karen Grevel
REGISTERED
NO.
7288
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
CEILING DETAILS

SCALE (U.N.O.)
0 1 2 IN

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

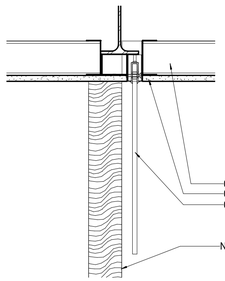
LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

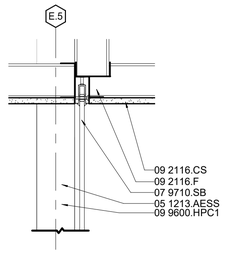
JOB. NO.
11396-00

DWG. NO.
A408

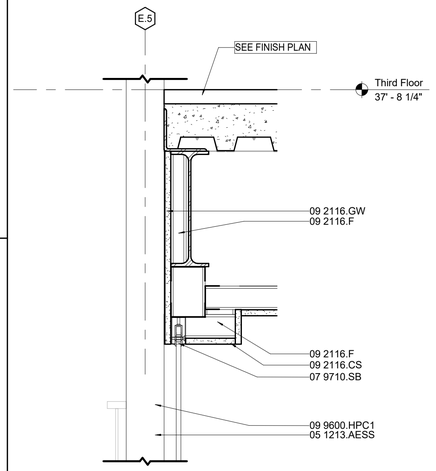
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:50 PM



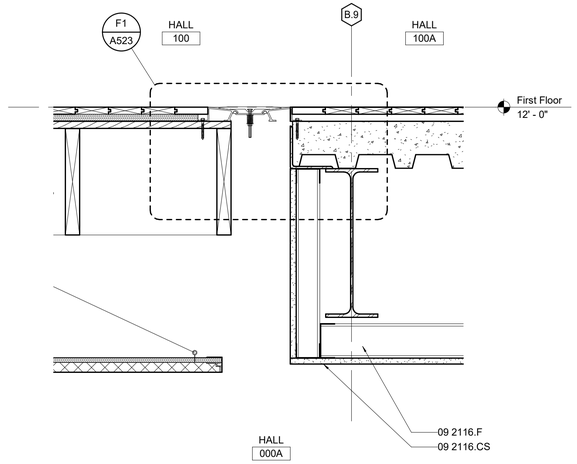
H1 DRAFT CURTAIN DETAIL - 3F



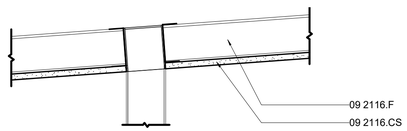
F1 DRAFT CURTAIN DETAIL - 3F



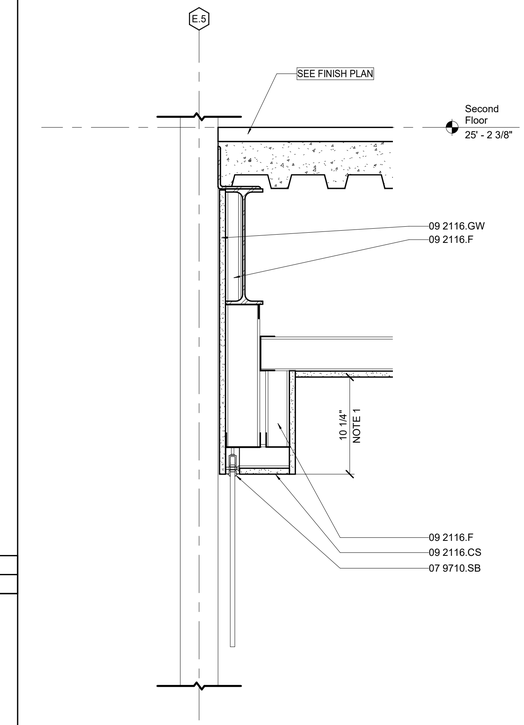
F3 DRAFT CURTAIN DETAIL - 3F



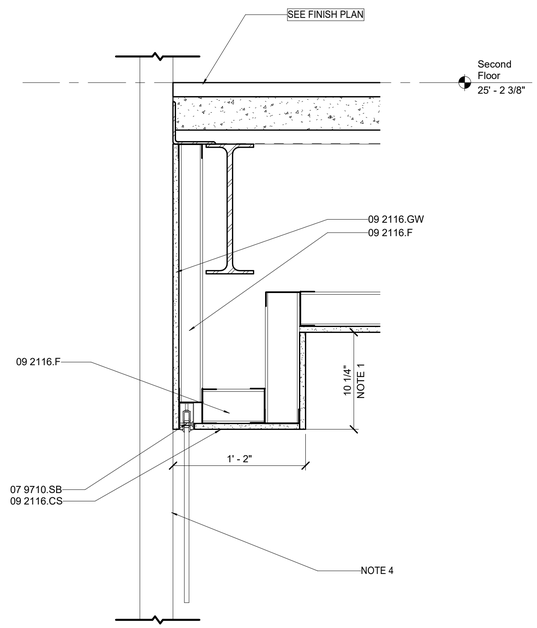
C1 CEILING TRANSITION AT FRAZEE/ADDITION



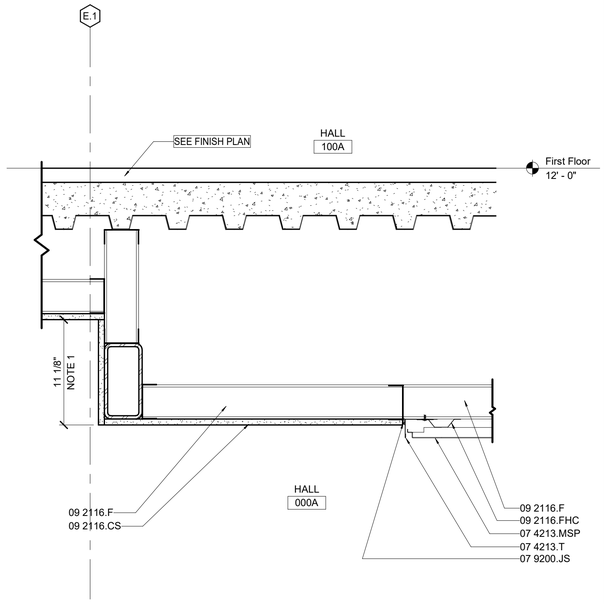
A1 PED WAY - LINEAR LIGHT



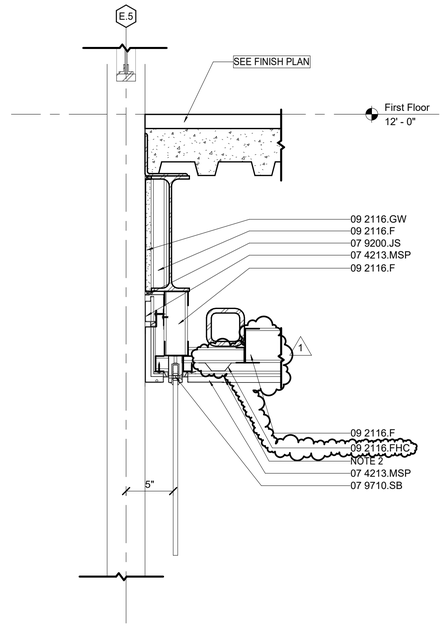
E6 DRAFT CURTAIN DETAIL



A6 DRAFT CURTAIN DETAIL



E9 ZINC TO GYPSUM TRANSITION CEILING DETAIL



A9 DRAFT CURTAIN AT METAL PANEL DETAIL

MATERIAL KEYNOTES

05 1213.AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
07 4213.MSP	METAL SOFFIT PANEL
07 4213.T	TRIM
07 9200.JS	JOINT SEALANT
07 9710.SB	SMOKE BAFFLES
09 2116.CS	INTERIOR GYPSUM CEILING/SOFFIT
09 2116.F	FRAMING
09 2116.FHC	HAT-SHAPED FURRING CHANNEL
09 2116.GW	GYPSUM WALLBOARD
09 9100.PC5	PAINT COLOR 5
09 9600.HPC1	HIGH PERFORMANCE COATING COLOR 1

GENERAL NOTES

SHEET SPECIFIC NOTES

1. REFER TO RCPS FOR CEILING HEIGHTS
2. LENGTH VARIES, REFER TO C1 / A616.
3. PROVIDE CEILING PANEL MANUFACTURER RECOMMENDED SUBGIRTS OR FLAT STRAPS REQUIRED FOR CEILING PANELS.
4. ARMSTRONG, WOODWORKS GRILLE, 5 1/4" SLAT VERTICAL OR SIMILAR.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: CEILING DETAILS

SCALE (U.N.O.): 0 1 2 IN

JOB NAME: University of Kentucky 2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

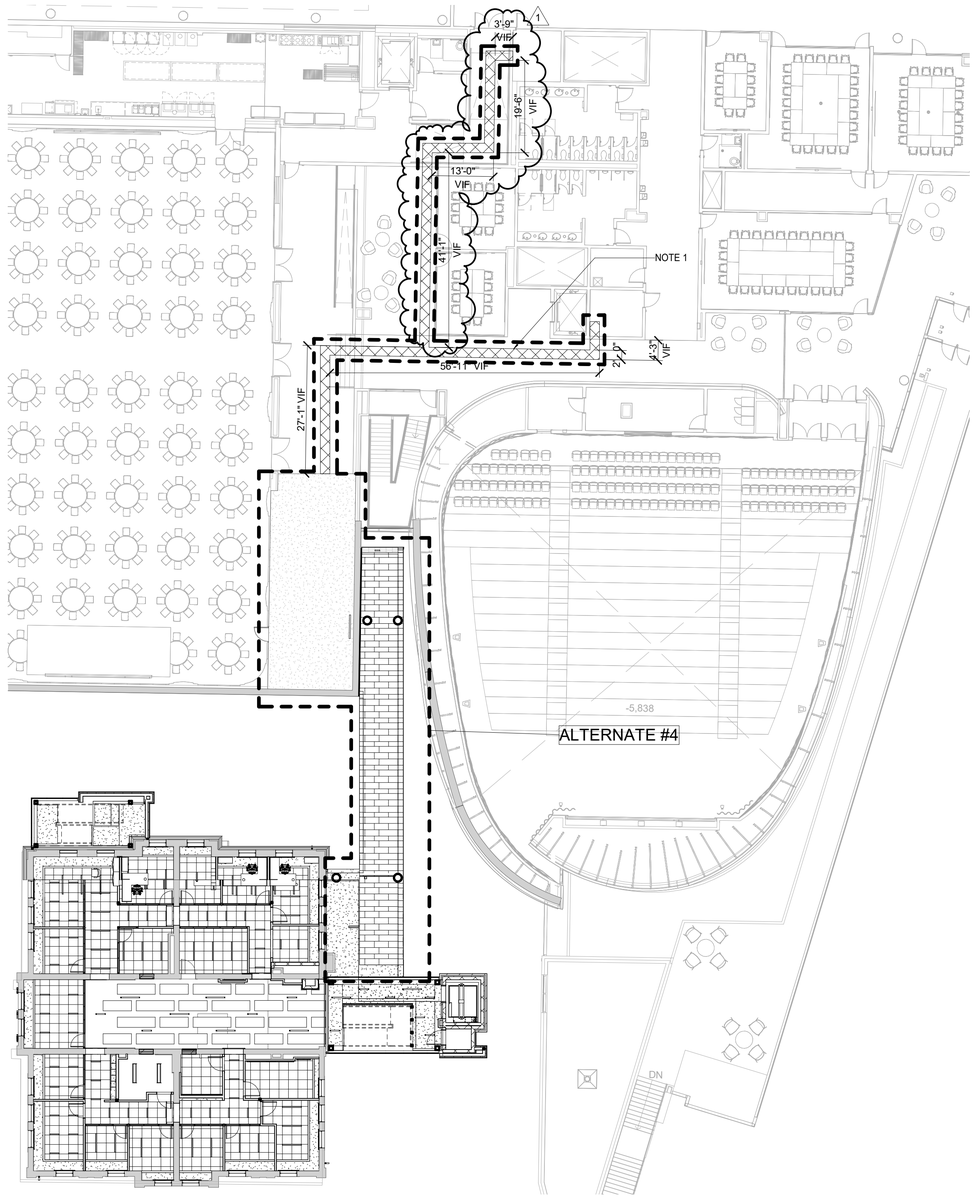
SEAL

Karen Grave
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

ISSUE DATE: July 02, 2021

JOB. NO. 11396-00

DWG. NO. A409



B1 STUDENT CENTER LEVEL 3 REFLECTED CEILING PLAN

MATERIAL KEYNOTES

SHEET SPECIFIC NOTES

1. ALTERNATE #4: APPROXIMATE EXTENTS FOR CEILING REMOVAL TO INSTALL EMERGENCY POWER CONDUIT AND FIBER. SEE ELECTRICAL DRAWINGS FOR PATH. REPAIR AND REPLACE CEILING TILES AS NEEDED FOR INSTALLATION.

GENERAL NOTES

A. COORDINATE THE EMERGENCY POWER CONDUIT PATH WHERE POSSIBLE TO AVOID LIGHTING OR OTHER CEILING EQUIPMENT IN OR ABOVE CEILING TILES.

LEGENDN

PROJECT NORTH

SEAL

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE
STUDENT CENTER LEVEL THREE REFLECTED CEILING PLAN

SCALE (U.N.O.)
0 16 32 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

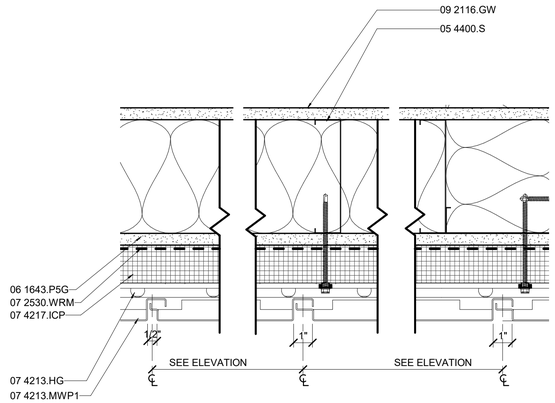
LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

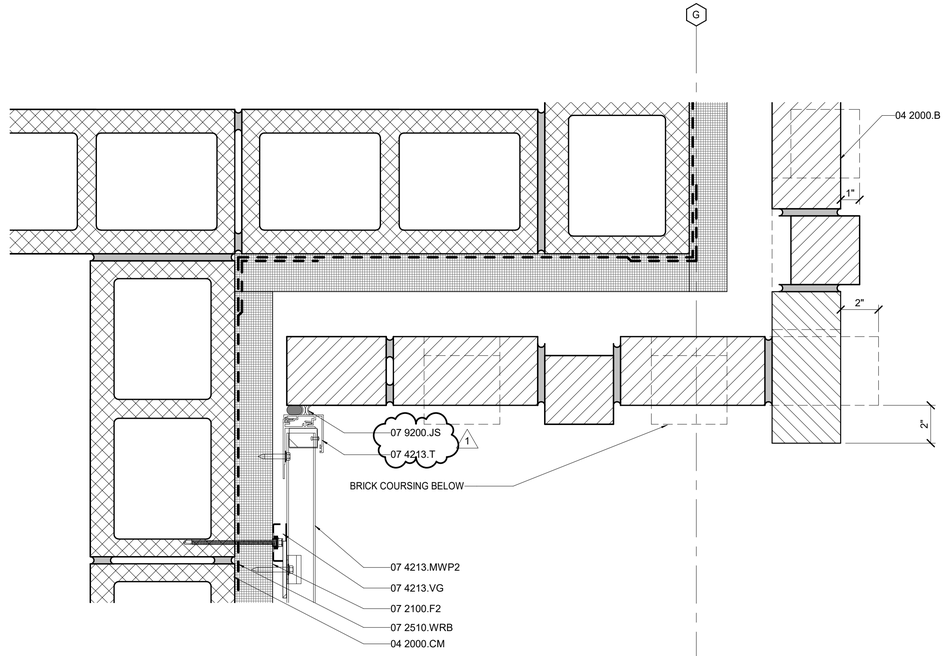
JOB. NO.
11396-00

DWG. NO.
A412

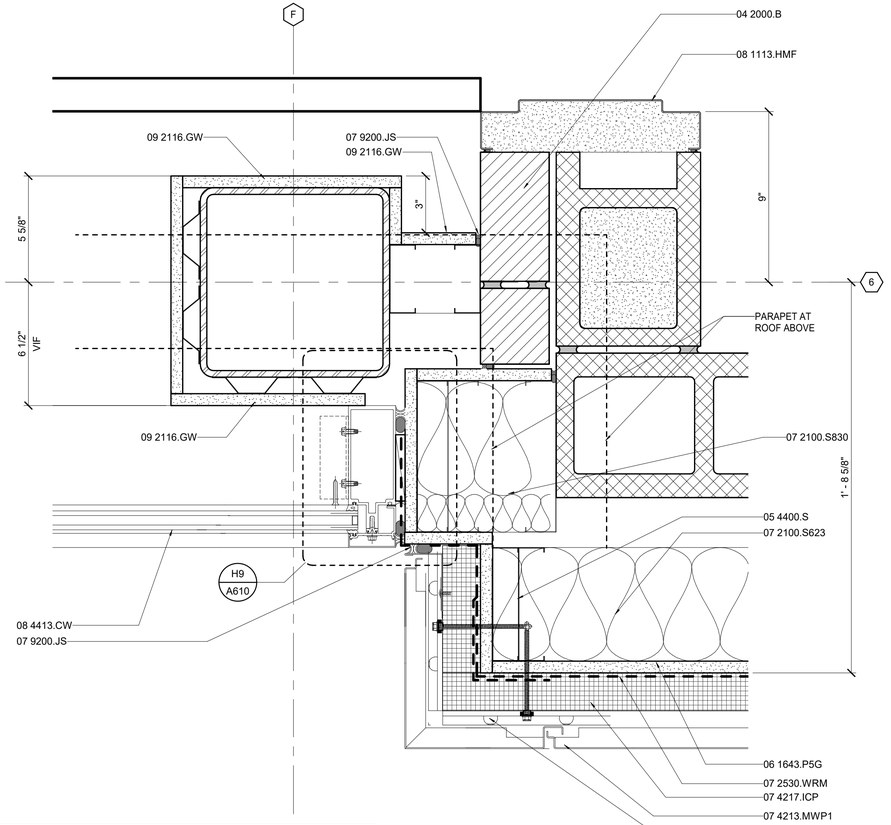
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:55 PM



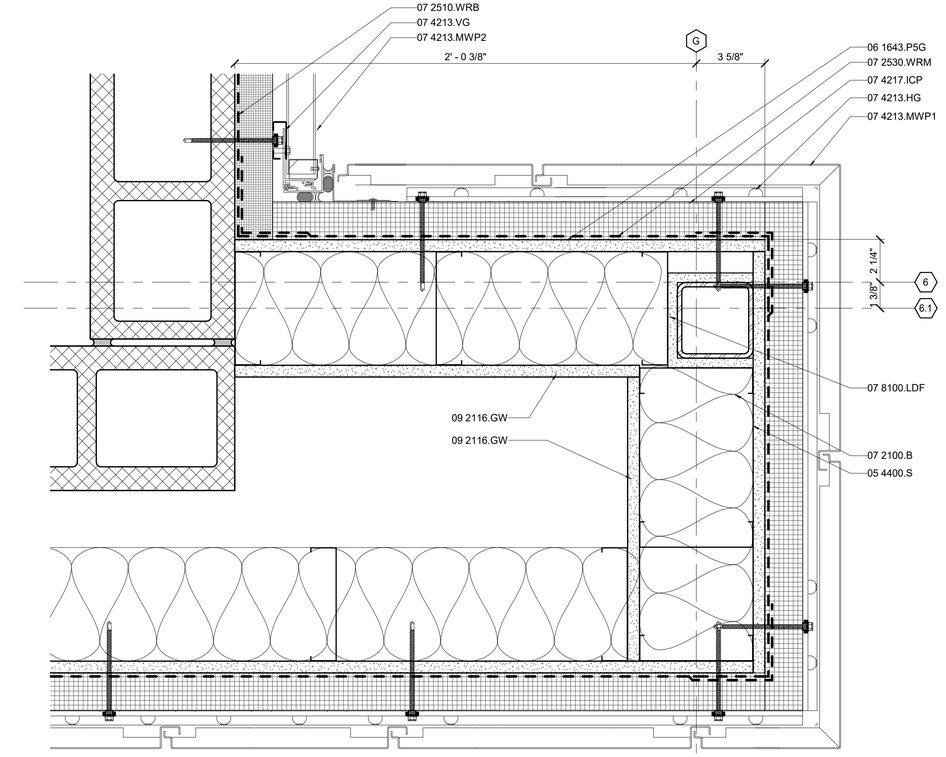
F2 TYP. METAL PANEL VERTICAL REVEALS



F7 CORRUGATED METAL PANEL AND BRICK UPPER FLOOR PLAN DETAIL



A1 METAL PANEL UPPER FLOOR PLAN DETAIL



A7 METAL PANEL OUTSIDE CORNER UPPER FLOOR PLAN DETAIL

MATERIAL KEYNOTES

04 2000.B	BRICK
04 2000.CM	CONCRETE MASONRY UNITS
05 4400.S	STUD
06 1643.P5G	5/8" GYPSUM SHEATHING
07 2100.B	BATT INSULATION
07 2100.F2	2" FIBER BOARD INSULATION
07 2100.S623	2X6 STEEL STUDS W/ R-23, 6" BATTS
07 2100.S830	2X8 STEEL STUDS W/ R-23, 6" BATT PLUS AN R-7, 2" BATT
07 2510.WRB	WEATHER-RESISTANT BARRIER
07 2530.WRM	WALL MEMBRANE
07 4213.HG	HORIZONTAL GIRT
07 4213.MWP1	METAL WALL PANELS 1
07 4213.MWP2	METAL WALL PANELS 2
07 4213.T	TRIM
07 4213.VG	VERTICAL GIRT
07 4217.ICP	INSULATED-COMPOSITE BACKUP PANEL
07 8100.LDF	LOW-DENSITY CEMENTITIOUS SPRAYED-ON FIREPROOFING
07 9200.JS	JOINT SEALANT
08 1113.HMF	HOLLOW METAL FRAME
08 4413.CW	CURTAINWALL
09 2116.GW	GYPSUM WALLBOARD

GENERAL NOTES

A. REFER TO G202 FOR TYPICAL EXTERIOR WALL DETAILS.
B. REFER TO A610 FOR TYPICAL CURTAIN WALL AND STOREFRONT DETAILS.

SHEET SPECIFIC NOTES

1. WOOD TRIM INFILL AT GAP BETWEEN GYPSWUM WALLBOARD AND CURTAINWALL. TOP OF TRIM TO BE FLUSH WITH TOP OF CURTAINWALL SILL. FINISH TO MATCH FINISH FLOORING.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7298
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A502

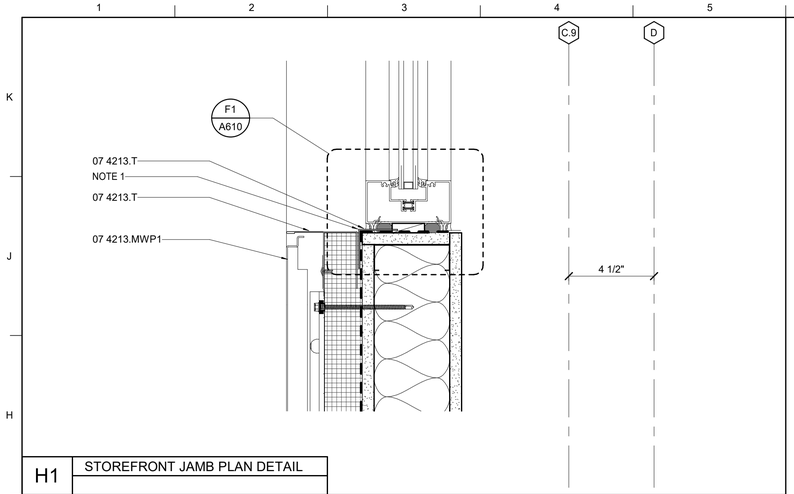
SHEET TITLE
PLAN DETAILS - ADDITION

SCALE (U.N.O.)
12 IN
0 6

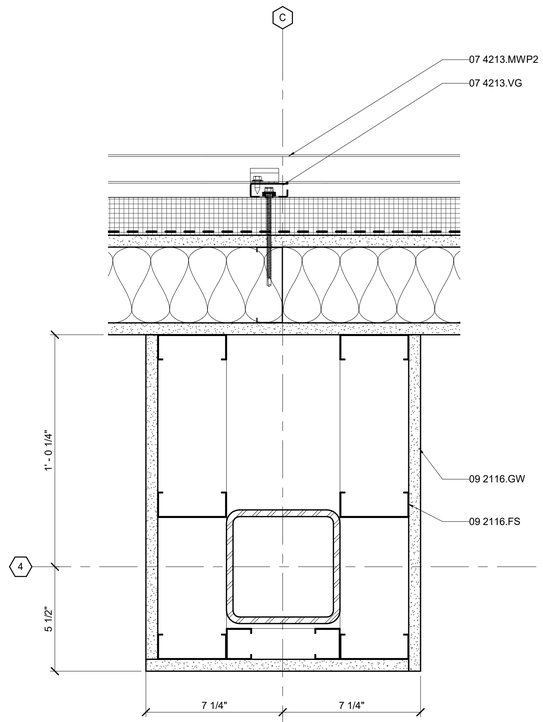
JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

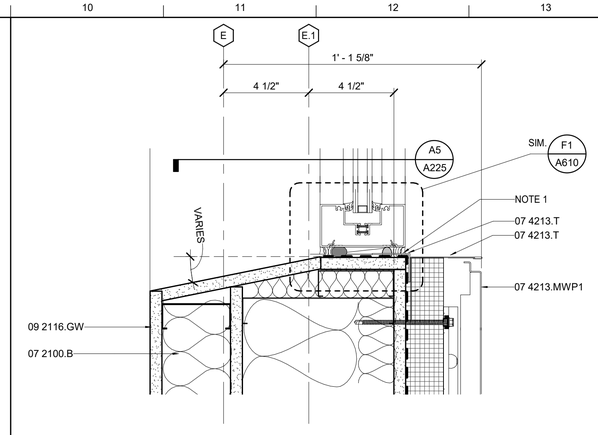
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:57 PM



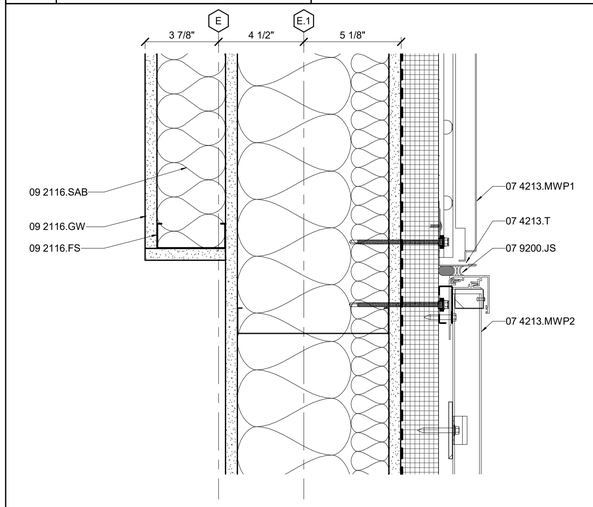
H1 STOREFRONT JAMB PLAN DETAIL



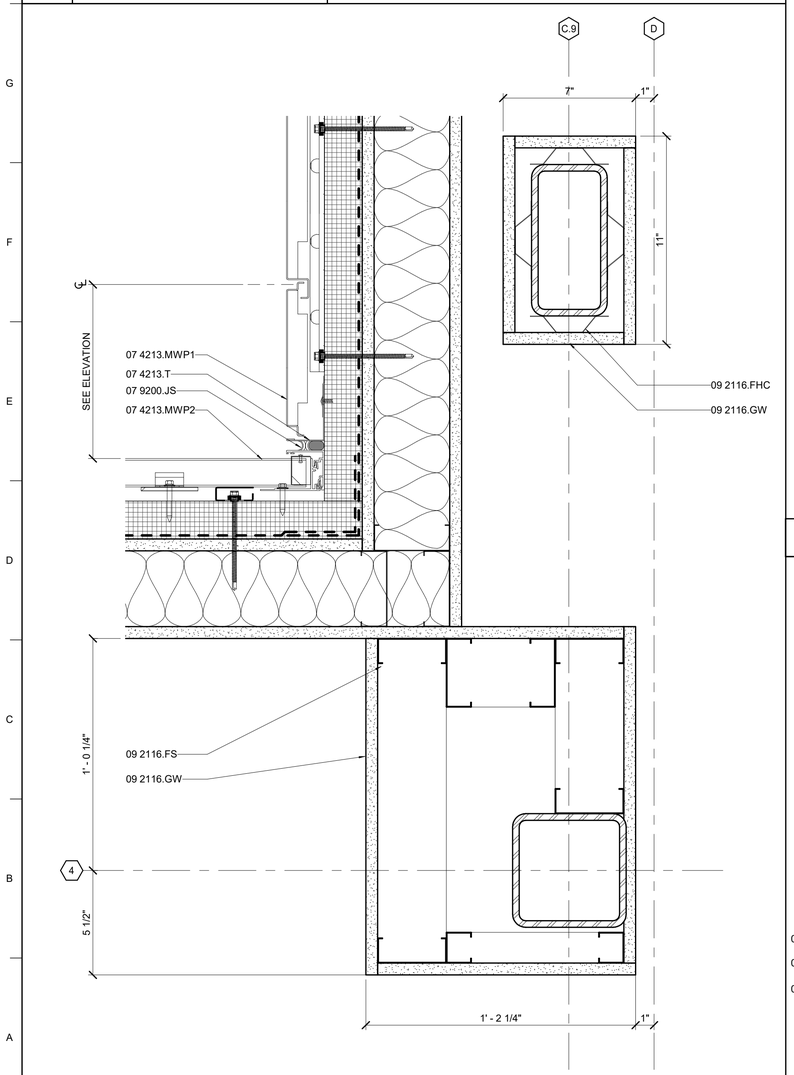
D6 COLUMN C-4 PLAN DETAIL



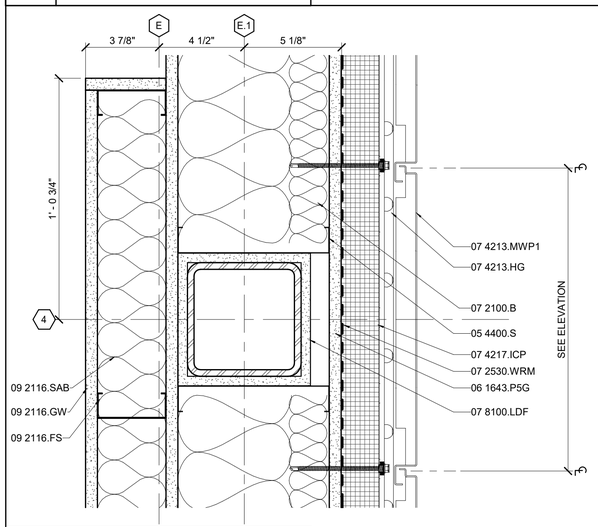
H10 SLOT WINDOW JAMB PLAN DETAIL



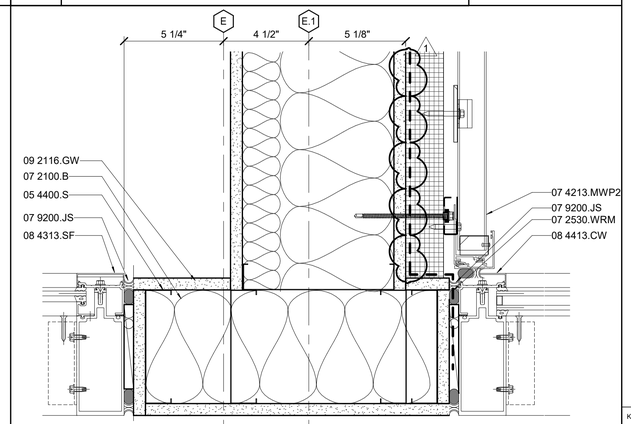
D10 METAL PANEL TRANSITION PLAN DETAIL



A1 METAL PANEL INSIDE CORNER TRANSITION PLAN DETAIL



A6 COLUMN E-4 PLAN DETAIL



A10 PEDESTRIAN WALKWAY CONNECTION PLAN DETAIL

MATERIAL KEYNOTES

05 4400.S	STUD
06 1643.P5G	5/8" GYPSUM SHEATHING
07 2100.B	BATT INSULATION
07 2530.WRM	WALL MEMBRANE
07 4213.HG	HORIZONTAL GIRT
07 4213.MWP1	METAL WALL PANELS 1
07 4213.MWP2	METAL WALL PANELS 2
07 4213.T	TRIM
07 4213.VG	VERTICAL GIRT
07 4217.ICP	INSULATED-COMPOSITE BACKUP PANEL
07 8100.LDF	LOW-DENSITY CEMENTITIOUS SPRAYED-ON FIREPROOFING
07 9200.JS	JOINT SEALANT
08 4313.SF	STOREFRONT
08 4413.CW	CURTAINWALL
09 2116.FHC	HAT-SHAPED FURRING CHANNEL
09 2116.FS	METAL STUD
09 2116.GW	GYPSUM WALLBOARD
09 2116.SAB	SOUND ATTENUATION BATT

GENERAL NOTES

A. REFER TO G202 FOR TYPICAL EXTERIOR WALL DETAILS.
B. REFER TO A610 FOR TYPICAL CURTAIN WALL AND STOREFRONT DETAILS.

SHEET SPECIFIC NOTES

1. PREFINISHED TRIM OVER EXPOSED WEATHER BARRIER SET IN BED OF SEALANT COMPATIBLE WITH WEATHER BARRIER SYSTEM.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
PLAN DETAILS - PEDESTRIAN WALKWAY - ALTERNATE 4

SCALE (U.N.O.)
0 6 12 IN

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

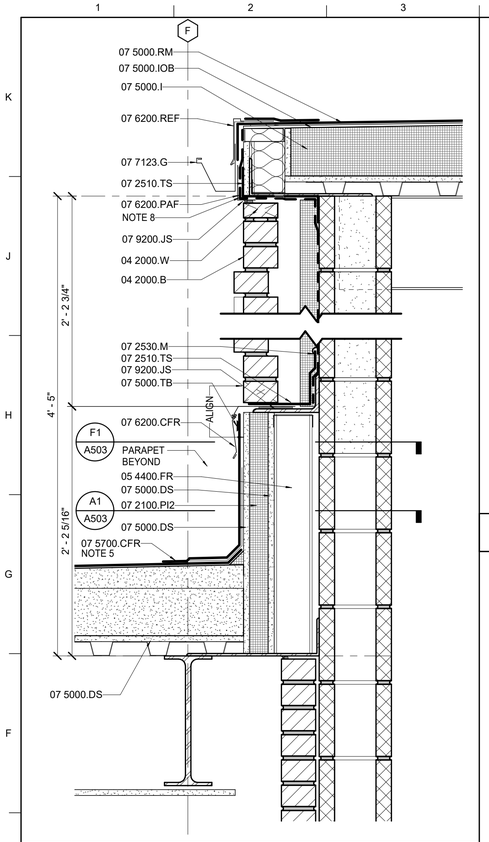
SEAL
Karen Grave
REGISTERED
NO.
7288
COMMONWEALTH OF
KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

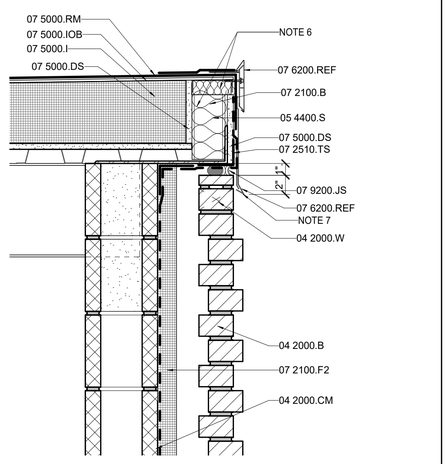
JOB. NO.
11396-00

DWG. NO.
A506

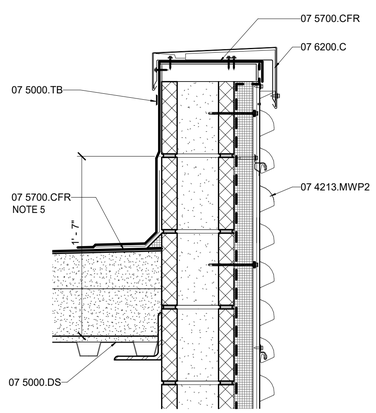
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:50:59 PM



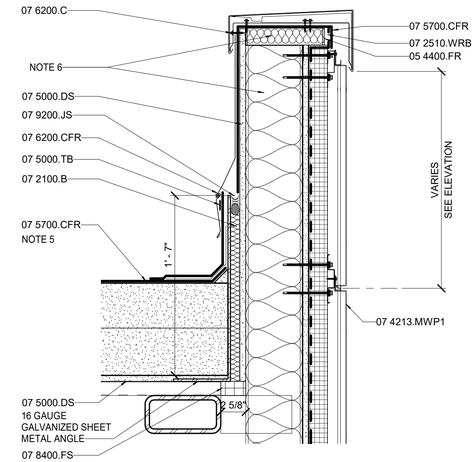
E1 ELEVATOR ROOF EDGE AND GUTTER DETAIL



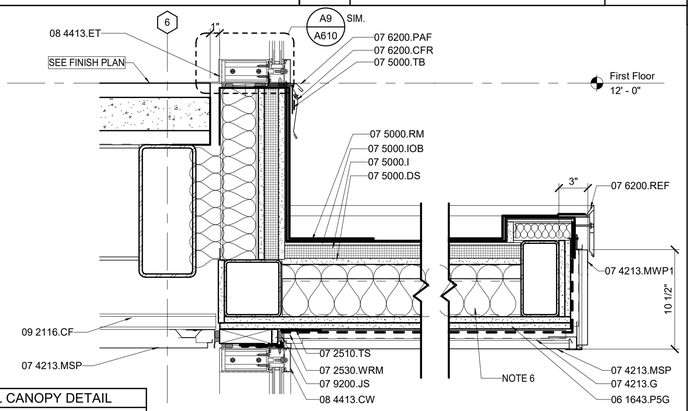
H4 TYP. FLEMISH BRICK / ROOF EDGE DETAIL



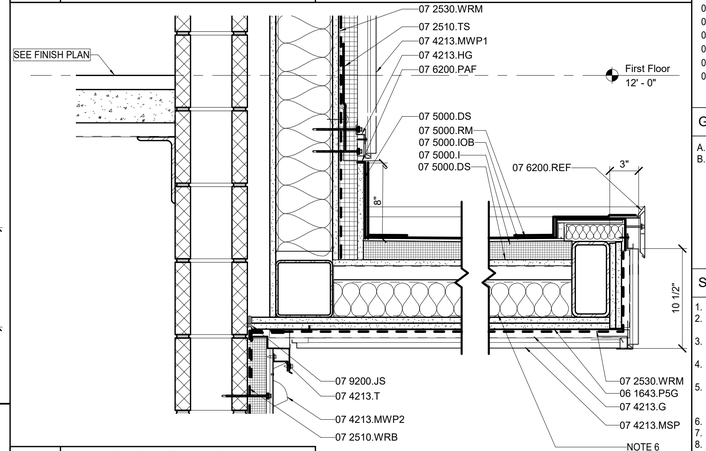
H7 MASONRY METAL PANEL PARAPET



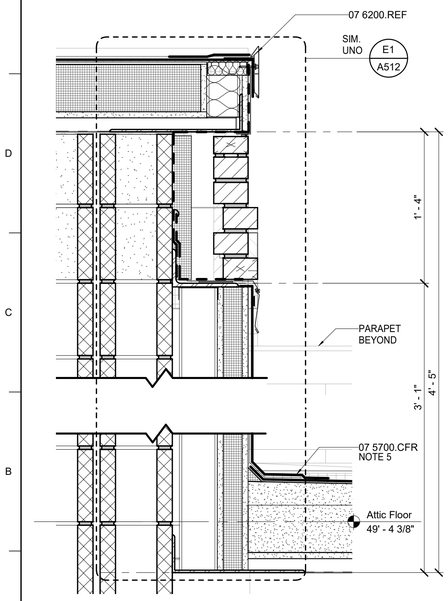
H9 TYP. METAL PANEL PARAPET



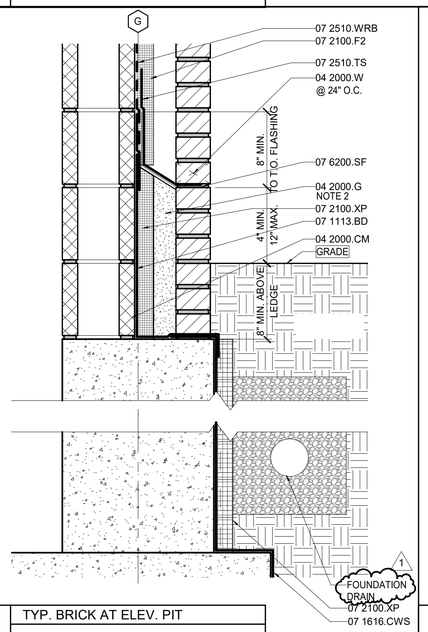
E4 CURTAIN WALL CANOPY DETAIL



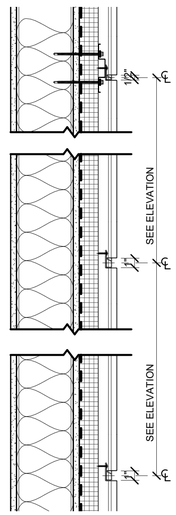
D9 CANOPY TRANSITION DETAIL



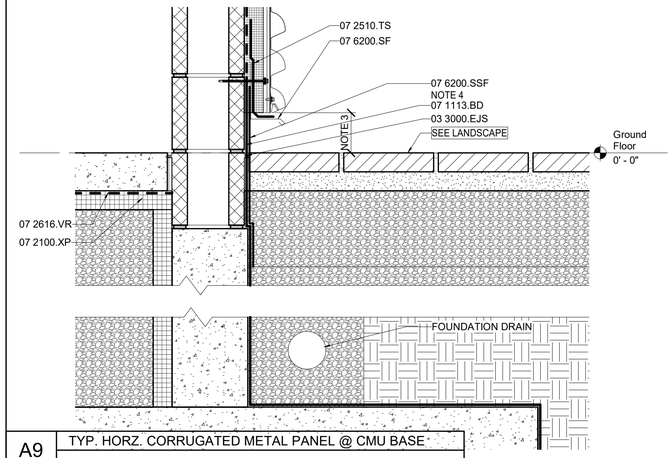
A1 ELEVATOR ROOF EDGE DETAIL



A4 TYP. BRICK AT ELEV. PIT



A7 TYP. METAL PANEL HORIZ. REVEALS



A9 TYP. HORZ. CORRUGATED METAL PANEL @ CMU BASE

MATERIAL KEYNOTES

03 3000.EJS	EXPANSION JOINT FILLER WITH JOINT SEALANT
04 2000.B	BRICK
04 2000.CM	CONCRETE MASONRY UNITS
04 2000.G	GROUT
04 2000.W	WEEPS
05 4400.FR	FRAMING
05 4400.S	STUD
06 1643.P5G	5/8" GYPSUM SHEATHING
07 1113.BD	BITUMINOUS DAMP-PROOFING
07 1616.CWS	CRYSTALLINE WATERPROOFING SLURRY
07 2100.B	BATT INSULATION
07 2100.F2	2" FIBER BOARD INSULATION
07 2100.PI2	2" POLYISOCYANURATE INSULATION
07 2100.XP	EXTRUDED POLYSTYRENE INSULATION
07 2510.TS	TERMINATION SHEET
07 2510.WRB	WEATHER-RESISTANT BARRIER
07 2530.M	MASTIC
07 2530.WRM	WALL MEMBRANE
07 2616.VR	VAPOR RETARDER
07 4213.G	SUBGIRT FRAMING
07 4213.HG	HORIZONTAL GIRT
07 4213.MSP	METAL SOFFIT PANEL
07 4213.MWP1	METAL WALL PANELS 1
07 4213.MWP2	METAL WALL PANELS 2
07 4213.T	TRIM
07 5000.DS	DECK SHEATHING (5/8-INCH-THICK)
07 5000.I	INSULATION
07 5000.IOB	OVERLAY BOARD
07 5000.RM	ROOF MEMBRANE
07 5000.TB	TERMINATION BAR
07 5700.CFR	COATING FOAM ROOFING
07 6200.C	COPING
07 6200.CFR	TWO-PIECE COUNTER FLASHING & RECEIVER
07 6200.PAF	PRE-FINISHED ALUMINUM SHEET METAL FLASHING
07 6200.REF	ROOF EDGE - FASCIA
07 6200.SF	SHEET METAL FLASHING
07 6200.SSF	STAINLESS STEEL SHEET METAL FLASHING
07 7123.G	GUTTER
07 8400.FS	FIRESTOPPING
07 9200.JS	JOINT SEALANT
08 4413.CW	CURTAINWALL
08 4413.ET	EXTRUDED TRIM
09 2116.CF	INTERIOR CEILING FRAMING

GENERAL NOTES

A. REFER TO G202 FOR TYPICAL EXTERIOR WALL DETAILS.
B. REFER TO A610 FOR TYPICAL CURTAIN WALL AND STOREFRONT DETAILS.

SHEET SPECIFIC NOTES

1. STRIKE MORTAR JOINTS FLUSH.
2. GROUT FILL MASONRY BEFORE SILL FLASHING. SLOPE TOP TO DRAIN.
3. 8" MINIMUM AT FINISHED GRADE AND 4" MINIMUM AT CONCRETE.
4. EXTEND 07 6200.SSF MINIMUM 12" BELOW TOP OF FINISHED GRADE.
5. APPLY AN EVEN TWO-INCH PASS OVER THE ENTIRE ROOF. THE SECOND PASS IS TO SLOPE AS SHOWN BEGINNING FROM THE DRAIN.
6. FILL STUD CAVITY WITH BATT INSULATION.
7. FASCIA EXTENDER WITH OFFSET.
8. PREFINISHED TRIM OVER EXPOSED WEATHER BARRIER SET IN BED OF SEALANT COMPATIBLE WITH WEATHER BARRIER SYSTEM.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: SECTION DETAILS

SCALE (U.N.O.): 0 1 2 IN

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

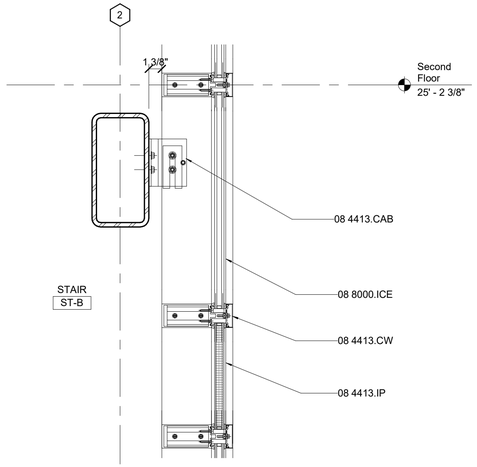
SEAL: Karen Grave REGISTERED NO. 7288 COMMONWEALTH OF KENTUCKY ARCHITECT

ISSUE DATE: July 02, 2021

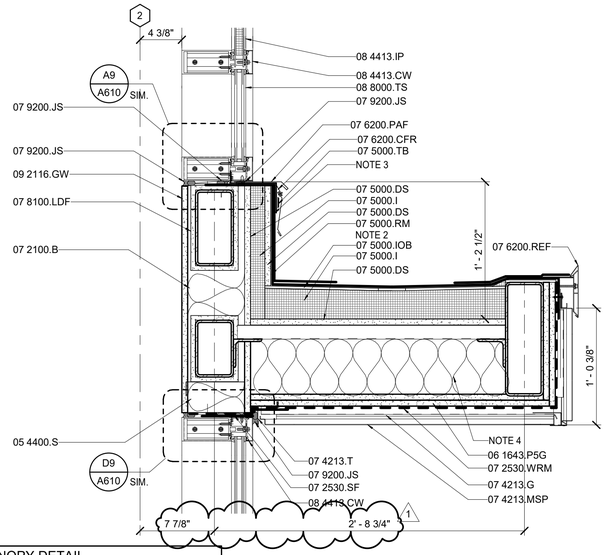
JOB. NO.: 11396-00

DWG. NO.: A512

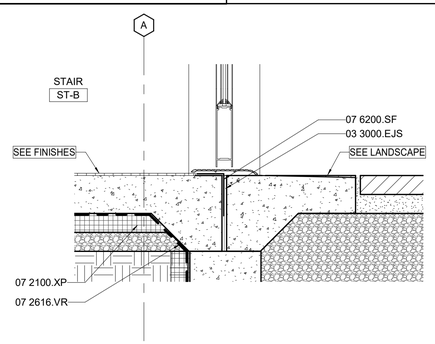
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:01 PM



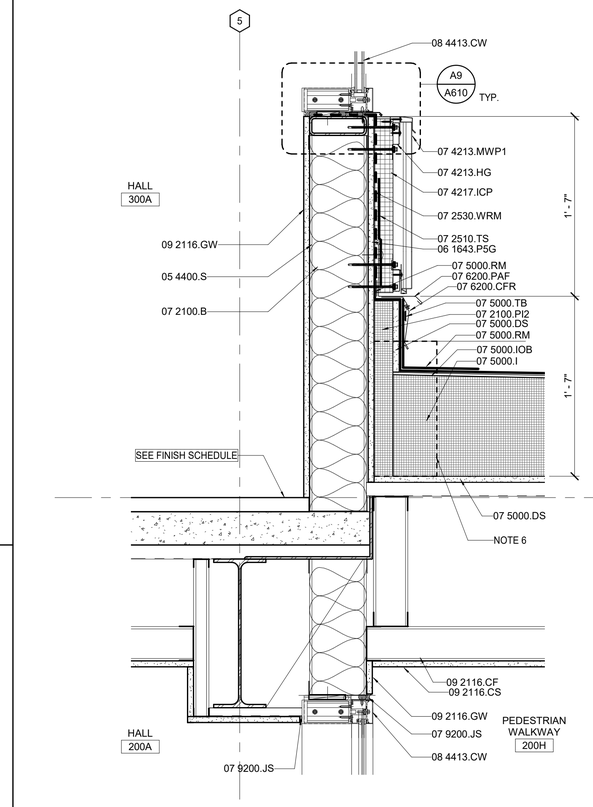
G1 CURTAIN WALL ANCHOR DETAIL



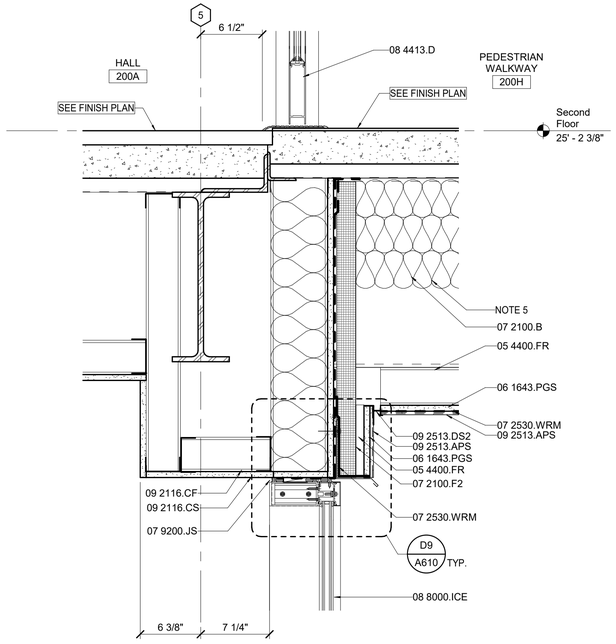
D1 CANOPY DETAIL



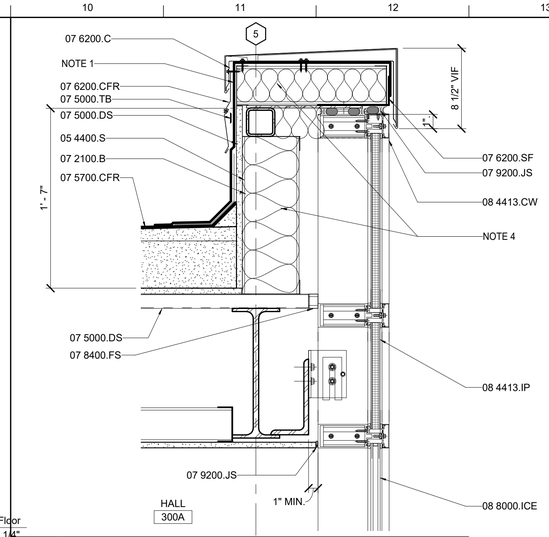
A1 DOOR THRESHOLD DETAIL



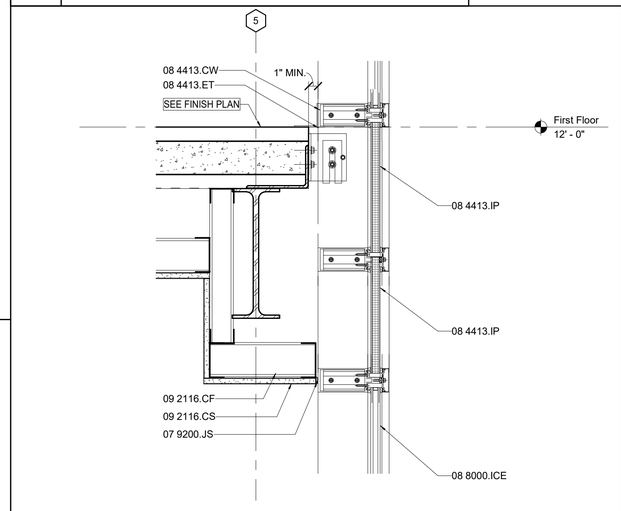
H10 CONNECTOR ROOF TRANSITION



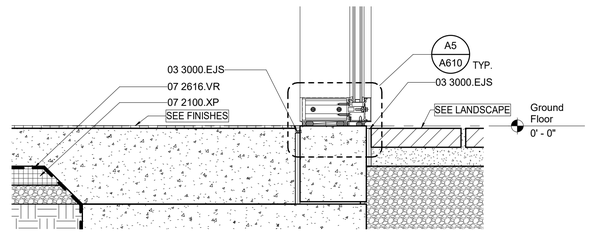
A5 CONNECTOR FLOOR TRANSITION



G10 CURTAIN WALL COPING SECTION DETAIL



D10 CURTAIN WALL INFILL PANEL SECTION DETAIL



A10 CURTAIN WALL FOOTING SECTION DETAIL

MATERIAL KEYNOTES

03 3000.EJS	EXPANSION JOINT FILLER WITH JOINT SEALANT
05 4400.FR	FRAMING
05 4400.S	STUD
06 1643.P5G	5/8" GYPSUM SHEATHING
06 1643.PGS	PAINTED GYPSUM SOFFIT
07 2100.B	BATT INSULATION
07 2100.F2	2" FIBER BOARD INSULATION
07 2100.PI2	2" POLYISOCYANURATE INSULATION
07 2100.XP	EXTRUDED POLYSTYRENE INSULATION
07 2510.TS	TERMINATION SHEET
07 2530.SF	SHEET FLASHING
07 2530.WRM	WALL MEMBRANE
07 2616.VR	VAPOR RETARDER
07 4213.G	SUBGIRT FRAMING
07 4213.HG	HORIZONTAL GIRT
07 4213.MSP	METAL SOFFIT PANEL
07 4213.MWP1	METAL WALL PANELS 1
07 4213.T	TRIM
07 4217.ICP	INSULATED-COMPOSITE BACKUP PANEL
07 5000.DS	DECK SHEATHING (5/8-INCH-THICK)
07 5000.I	INSULATION
07 5000.IOB	OVERLAY BOARD
07 5000.RM	ROOF MEMBRANE
07 5000.TB	TERMINATION BAR
07 5700.CFR	COATING FOAM ROOFING
07 6200.C	COPING
07 6200.CFR	TWO-PIECE COUNTER FLASHING & RECEIVER
07 6200.PAF	PRE-FINISHED ALUMINUM SHEET METAL FLASHING
07 6200.REF	ROOF EDGE - FASCIA
07 6200.SF	SHEET METAL FLASHING
07 8100.LDF	LOW-DENSITY CEMENTITIOUS SPRAYED-ON FIREPROOFING
07 8400.FS	FIRESTOPPING
07 9200.JS	JOINT SEALANT
08 4413.CAB	CURTAINWALL ANCHORAGE BRACKET
08 4413.CW	CURTAINWALL
08 4413.D	ALUMINUM DOOR AND FRAME
08 4413.ET	EXTRUDED TRIM
08 4413.IP	INFILL PANEL
08 8000.ICE	INSULATING, CLEAR, LOW E GLASS
08 8000.TS	FULLY TEMPERED GLASS (SAFETY)
09 2116.CF	INTERIOR CEILING FRAMING
09 2116.CS	INTERIOR GYPSUM CEILING/SOFFIT
09 2116.GW	GYPSUM WALLBOARD
09 2513.APS	ACRYLIC PLASTER SOFFIT
09 2513.DS2	DRIP SCREED 2

GENERAL NOTES

A. REFER TO G202 FOR TYPICAL EXTERIOR WALL DETAILS.
B. REFER TO A610 FOR TYPICAL CURTAIN WALL AND STOREFRONT DETAILS.

SHEET SPECIFIC NOTES

1. COPING COLOR TO MATCH ALUMINUM CURTAIN WALL.
2. INSTALL 05 4000 Z FURRING ATTACHED TO STUD FRAMING FOR FASTENING DECK SHEATHING. FILL VOIDS WITH INSULATION AS INDICATED.
3. SEAL ROOF UNDERLAYMENT UNDER CURTAIN WALL SILL AND ACROSS FURRING AND LAP OVER ROOFING BELOW.
4. FILL STUD CAVITY WITH BATT INSULATION.
5. CEILING CAVITY BATT INSULATION PINNED TO UNDERSIDE OF FLOOR DECKING. REFER TO SPECIFICATIONS.
6. ROOF CURB BEYOND AT EXISTING BUILDING WALL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: SECTION DETAILS

SCALE (U.N.O.): 0 1 2 IN

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

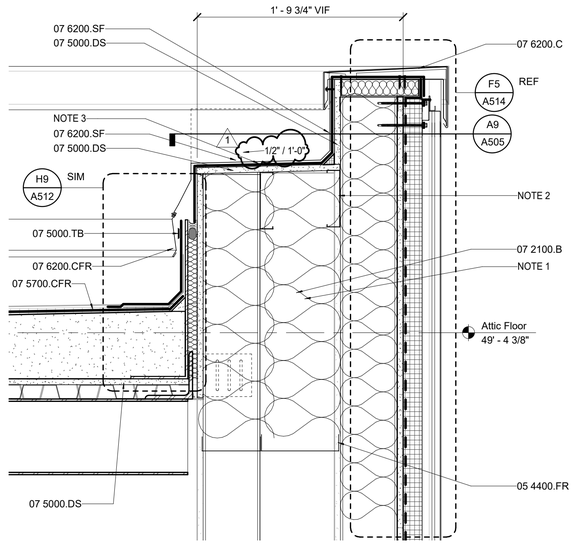
SEAL: Karen Grave, REGISTERED, NO. 7288, COMMONWEALTH OF KENTUCKY, ARCHITECT

ISSUE DATE: July 02, 2021

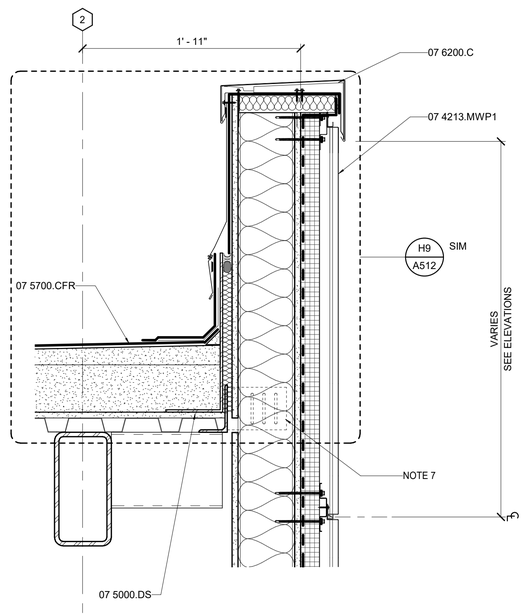
JOB. NO. 11396-00

DWG. NO. A513

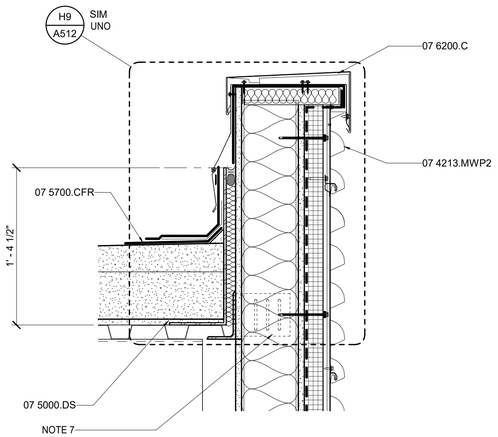
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_ v21.rvt
7/29/2021 10:51:02 PM



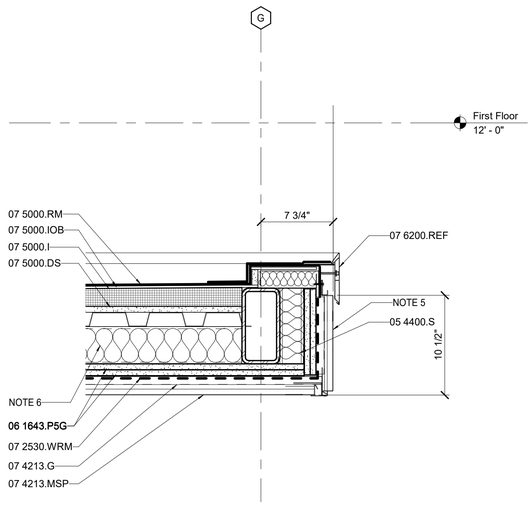
F1 METAL PANEL COPING DETAIL



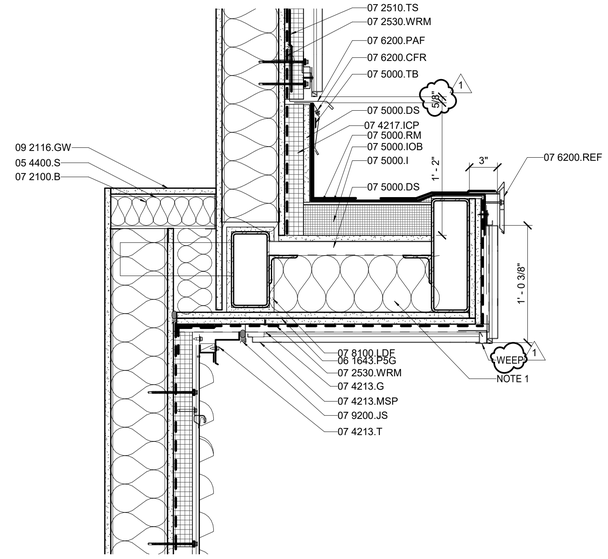
F5 METAL PANEL COPING DETAIL



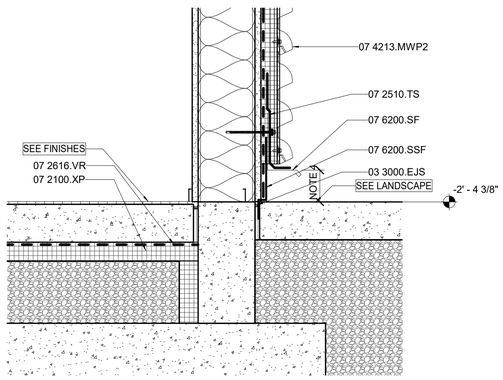
F10 CORRUGATED METAL PANEL COPING DETAIL



A1 CANOPY EDGE DETAIL



A5 METAL PANEL TRANSITION DETAIL



A10 CORRUGATED METAL PANEL @ BASE DETAIL

MATERIAL KEYNOTES

03 3000.EJS	EXPANSION JOINT FILLER WITH JOINT SEALANT
05 4400.FR	FRAMING
05 4400.S	STUD
06 1643.P5G	5/8" GYPSUM SHEATHING
07 2100.B	BATT INSULATION
07 2100.XP	EXTRUDED POLYSTYRENE INSULATION
07 2510.TS	TERMINATION SHEET
07 2530.WRM	WALL MEMBRANE
07 2616.VR	VAPOR RETARDER
07 4213.G	SUBGIRT FRAMING
07 4213.MSP	METAL SOFFIT PANEL
07 4213.MWP1	METAL WALL PANELS 1
07 4213.MWP2	METAL WALL PANELS 2
07 4213.T	TRIM
07 4217.ICP	INSULATED-COMPOSITE BACKUP PANEL
07 5000.DS	DECK SHEATHING (5/8-INCH-THICK)
07 5000.I	INSULATION
07 5000.IOB	OVERLAY BOARD
07 5000.RM	ROOF MEMBRANE
07 5000.TB	TERMINATION BAR
07 5700.CFR	COATING FOAM ROOFING
07 6200.C	COPING
07 6200.CFR	TWO-PIECE COUNTER FLASHING & RECEIVER
07 6200.PAF	PRE-FINISHED ALUMINUM SHEET METAL FLASHING
07 6200.REF	ROOF EDGE - FASCIA
07 6200.SF	SHEET METAL FLASHING
07 6200.SSF	STAINLESS STEEL SHEET METAL FLASHING
07 8100.LDF	LOW-DENSITY CEMENTITIOUS SPRAYED-ON FIREPROOFING
07 9200.JS	JOINT SEALANT
09 2116.GW	GYPSUM WALLBOARD

GENERAL NOTES

A. REFER TO G202 FOR TYPICAL EXTERIOR WALL DETAILS.
B. REFER TO A610 FOR TYPICAL CURTAIN WALL AND STOREFRONT DETAILS.

SHEET SPECIFIC NOTES

1. FILL STUD CAVITY WITH THERMAL BATT INSULATION.
2. COLD FORMED METAL FRAMING BRACING BETWEEN STUDS.
3. CONTINUOUS SHEET METAL ROOFING WITH UPTURNED SIDE DAMS UNDER ROOFING MEMBRANE AT ADJACENT PARPET WALLS.
4. 8" MINIMUM AT FINISHED GRADE AND 4" MINIMUM AT CONCRETE.
5. ALIGN FACE OF CANOPY WITH FACE OF METAL PANEL BEYOND.
6. FILL CANOPY CAVITY WITH BATT INSULATION.
7. DEFLECTION CLIP. REFER TO STRUCTURAL DRAWINGS.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:
1 Addendum #1 7/30/21

SHEET TITLE: SECTION DETAILS
SCALE (U.N.O.): 2 IN 1 0

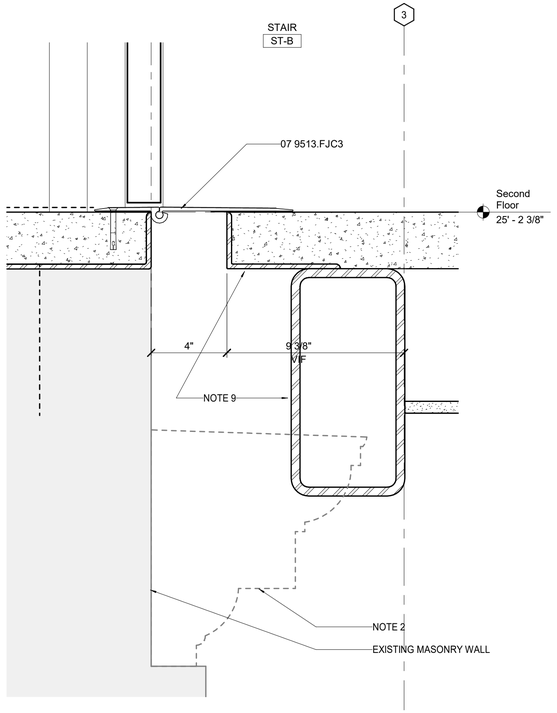
JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

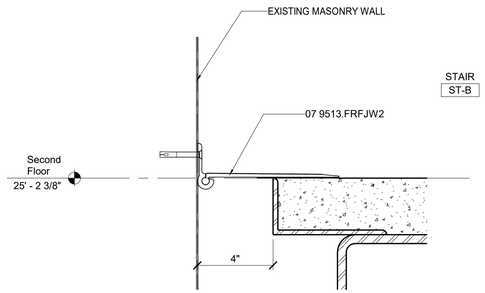
SEAL: Karen Gravel, REGISTERED, NO. 7292, COMMONWEALTH OF KENTUCKY, ARCHITECT

ISSUE DATE: July 02, 2021
JOB. NO. 11396-00
DWG. NO. A514

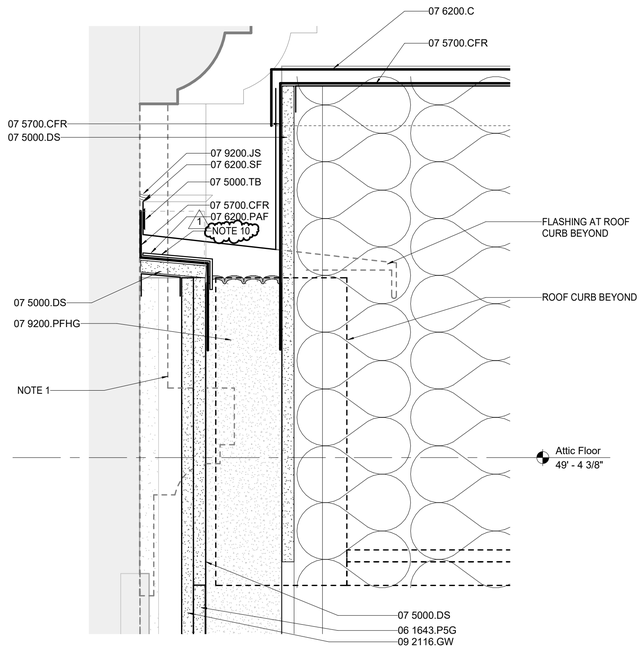
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:04 PM



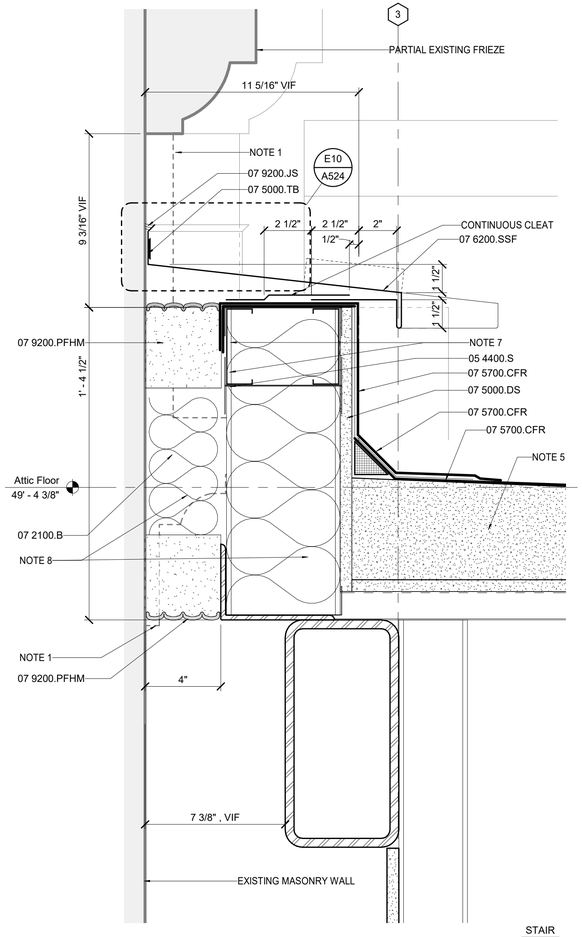
F1 EXPANSION JT. FLOOR DETAIL - STAIR B 2ND FLOOR



H5 EXPANSION JT. FLOOR DETAIL - STAIR B 2ND FLOOR

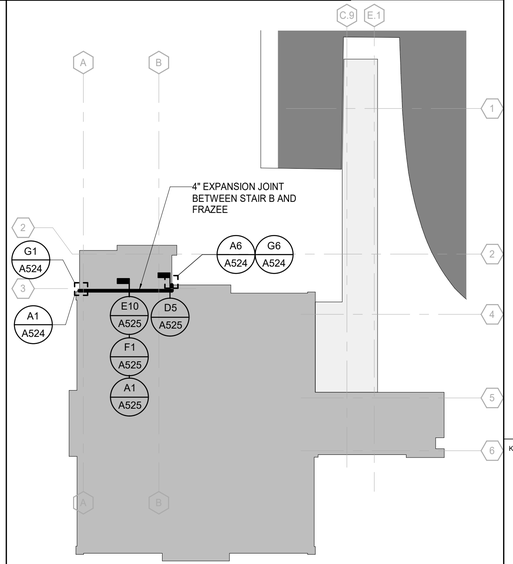


D5 EXPANSION JT. ROOF DETAIL - THROUGH STAIR B PARAPET



E10 EXPANSION JT. ROOF DETAIL - STAIR B

A1 EXPANSION JT. FLOOR DETAIL - STAIR B 1ST FLOOR



EXPANSION JOINT DIAGRAM - STAIR B

MATERIAL KEYNOTES

05 4400.S	STUD
06 1643.P5G	5/8" GYPSUM SHEATHING
07 2100.B	BATT INSULATION
07 5000.DS	DECK SHEATHING (5/8-INCH-THICK)
07 5000.TB	TERMINATION BAR
07 5700.CFR	COATING FOAM ROOFING
07 6200.C	COPING
07 6200.PAF	PRE-FINISHED ALUMINUM SHEET METAL FLASHING
07 6200.SF	SHEET METAL FLASHING
07 6200.SSF	STAINLESS STEEL SHEET METAL FLASHING
07 9200.JS	JOINT SEALANT
07 9200.PFHG	PRECOMPRESSED FOAM SEAL, HORIZONTAL GRADE
07 9200.PFHM	PRECOMPRESSED FOAM SEAL, HIGH MOVEMENT
07 9513.FJC	INTERIOR FLOOR JOINT COVER
07 9513.FJC3	INTERIOR FLOOR JOINT COVER 3
07 9513.FRFJW2	INTERIOR FIRE-RATED FLOOR/WALL JOINT COVER 2
09 2116.GW	GYPSUM WALLBOARD

GENERAL NOTES

SHEET SPECIFIC NOTES

1. EXISTING FRIEZE BEHIND NEW ROOF CURB REMOVED. REFER TO DEMOLITION DRAWINGS.
2. EXISTING MID-CORNICE BEHIND NEW STAIR REMOVED. REFER TO DEMOLITION DRAWINGS.
3. EXISTING LIMESTONE REMOVED BEHIND NEW ROOF CURB. REFER TO DEMOLITION DRAWINGS.
4. FIELD VERIFY EXISTING MASONRY WALL SURFACE AND GAP SIZE OF COMPRESSION JOINT.
5. APPLY AN EVEN TWO-INCH PASS OVER THE ENTIRE ROOF. THE SECOND PASS IS TO SLOPE AS SHOWN BEGINNING FROM THE DRAIN.
6. REFER TO REFLECTED CEILING PLAN FOR CEILING FINISH.
7. FORM METAL STUD BLOCKING TO SUPPORT EXPANSION JOINT
8. PARAPET CAVITY TO HAVE FULL BATT INSULATION INFILL.
9. EXPOSED STEEL AND DECKING TO BE PAINTED. REFER TO FINISH SCHEDULE AND DRAWINGS.
10. PREFINISHED ALUMINUM FLASHING CAP SET ON BED OF SEALANT COMPATIBLE WITH ROOFING MEMBRANE.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: EXPANSION JOINTS - STAIR B

SCALE (U.N.O.): 12 IN / 6 / 0

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

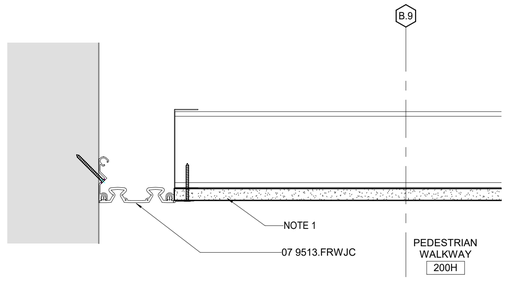
Karen Gravel
REGISTERED
NO. 7298
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE: July 02, 2021

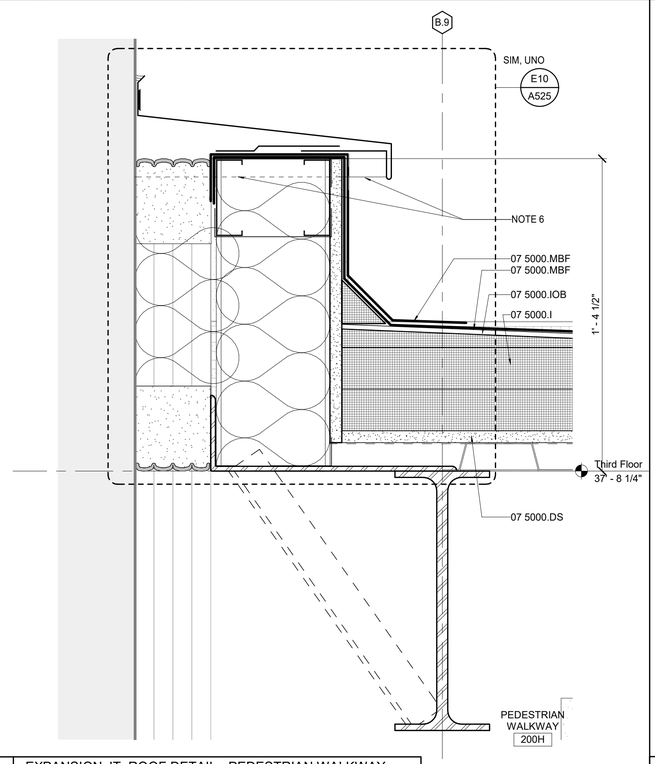
JOB. NO.: 11396-00

DWG. NO.: A525

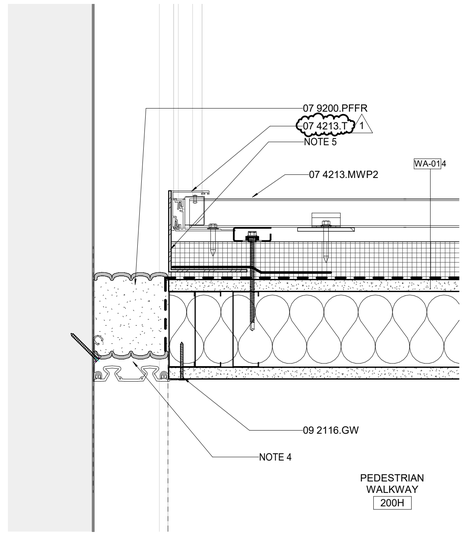
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:06 PM



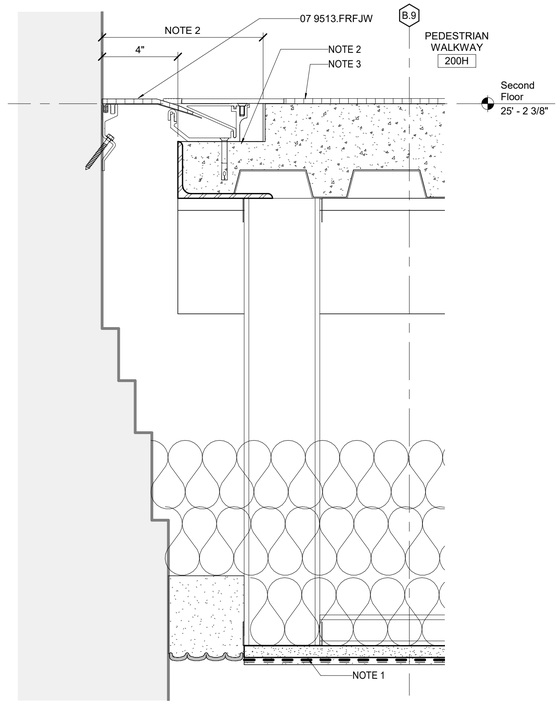
J1 EXPANSION JT. CEILING DETAIL - PEDESTRIAN WALKWAY



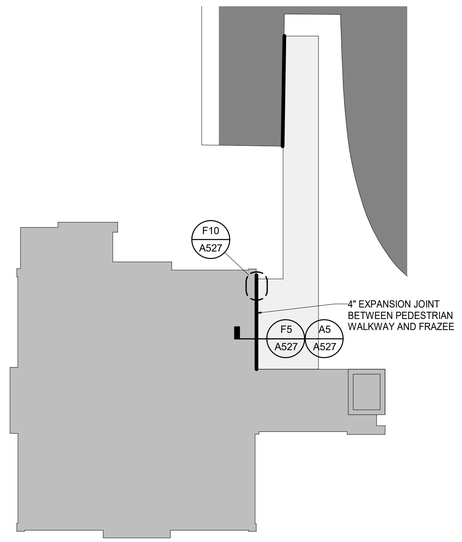
F5 EXPANSION JT. ROOF DETAIL - PEDESTRIAN WALKWAY



F10 EXPANSION JOINT EXTERIOR WALL PLAN DETAIL



A5 EXPANSION JT. FLOOR DETAIL - PEDESTRIAN WALKWAY



EXPANSION JOINT DIAGRAM - PEDESTRIAN WALKWAY

0 16 32 FT

MATERIAL KEYNOTES

07 4213.MWP2	METAL WALL PANELS 2
07 4213.T	TRIM
07 5000.DS	DECK SHEATHING (5/8-INCH-THICK)
07 5000.I	INSULATION
07 5000.IOB	OVERLAY BOARD
07 5000.MBF	MODIFIED BITUMEN FLASHING
07 9200.PFFR	PRECOMPRESSED FOAM SEAL, FIRE RATED
07 9513.FRFJW	INTERIOR FIRE-RATED FLOOR/WALL JOINT COVER
07 9513.FRWJC	INTERIOR FIRE-RATED WALL/CEILING JOINT COVER
09 2116.GW	GYPSUM WALLBOARD

GENERAL NOTES

SHEET SPECIFIC NOTES

1. REFER TO REFLECTED CEILING PLAN FOR CEILING FINISH.
2. VERIFY AND COORDINATE RECESS NEEDED WITH EXPANSION JOINT COVER MANUFACTURER.
3. FINISH FLOORING PER FINISH SCHEDULE AND PLANS.
4. FIRE RATED TYPE PRE-COMPRESSED SEAL USED FOR FINISH FACE ON INTERIOR. FIRE RATING IS NOT REQUIRED.
5. PREFINISHED ALUMINUM TRIM OVER EXPOSED WEATHER BARRIER BY METAL WALL PANEL MANUFACTURER.
6. TURN DOWN SIDE PEG AT END OF CURB.

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7298
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

SHEET TITLE
EXPANSION JOINTS - PEDESTRIAN WALKWAY - ALTERNATE 4

SCALE (U.N.O.)
0 6 12 IN

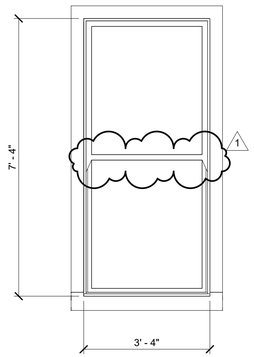
JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

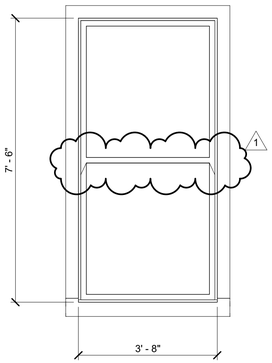
JOB. NO.
11396-00

DWG. NO.
A527



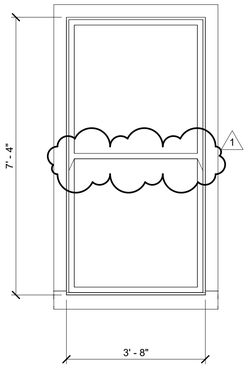
A

WINDOW TYPE 'A'



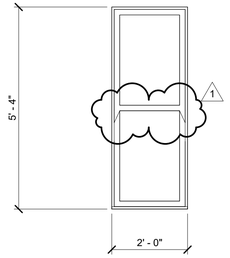
B

WINDOW TYPE 'B'



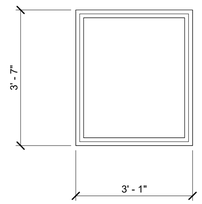
C

WINDOW TYPE 'C'



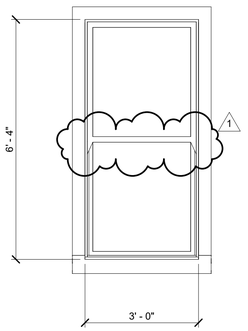
E

WINDOW TYPE 'E'



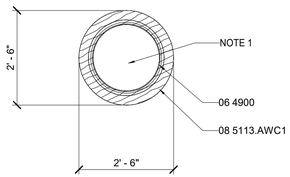
F

WINDOW TYPE 'F'



G

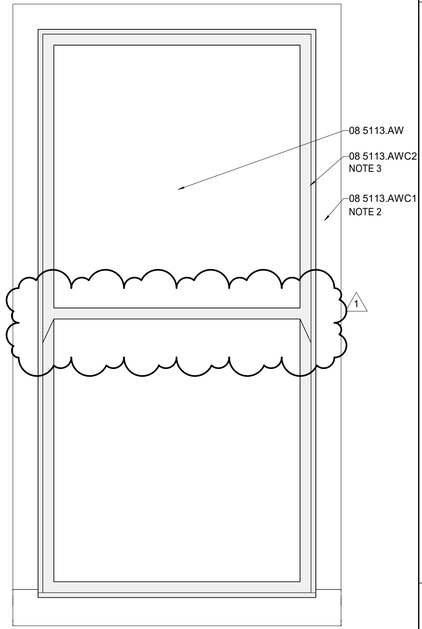
WINDOW TYPE 'G'



H

WINDOW TYPE 'H'

Window Schedule				
Level	Type Mark	Width	Height	Count
Ground Floor				
Ground Floor	G	3' - 0"	6' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	G	3' - 0"	6' - 4"	1
Ground Floor	G	3' - 0"	6' - 4"	1
Ground Floor	G	3' - 0"	6' - 4"	1
Ground Floor	G	3' - 0"	6' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	A	3' - 4"	7' - 4"	1
Ground Floor	F	3' - 1"	3' - 7"	1
Ground Floor	E	2' - 0"	5' - 4"	1
Ground Floor: 18				
First Floor				
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor	B	3' - 8"	7' - 6"	1
First Floor: 19				
Second Floor				
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	C	3' - 8"	7' - 4"	1
Second Floor	B	3' - 8"	7' - 6"	1
Second Floor	B	3' - 8"	7' - 6"	1
Second Floor: 24				
Third Floor				
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor	C	3' - 8"	7' - 4"	1
Third Floor: 24				
Grand total: 85				



A11 WINDOW ELEVATION

0 1 2 FT

MATERIAL KEYNOTES

06 4900	EXTERIOR ARCHITECTURAL WOODWORK
08 5113.AW	ALUMINUM WINDOW
08 5113.AWC1	ALUMINUM WINDOW COLOR 1
08 5113.AWC2	ALUMINUM WINDOW COLOR 2

EXTERIOR FINISH NOTES

EXTERIOR FINISHES

Exterior Paint (EP)
EP1: CORNICE, SOFFIT AND LINTEL PAINT
EP2: TRIM PAINT

Stain Finish (SF)
SF2: EXTERIOR DOOR STAIN FINISH

Window Colors (AWC) 1
AWC1: WINDOW PANNING COLOR
AWC2: WINDOW FRAME COLOR

GENERAL NOTES

SHEET SPECIFIC NOTES

1. WINDOW IS NOT BEING REPLACED. STRIP, PAINT AND CLEAN EXISTING.
2. SHERWIN WILLIAMS BONE WHITE COLOR OR SIMILAR FROM MANUFACTURER'S STANDARD LINE OF COLORS.
3. SHERWIN WILLIAMS GRAHAM BRONZE COLOR OR SIMILAR FROM MANUFACTURER'S STANDARD LINE OF COLORS.

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
NO. 7286

Karen M. Gravel

LORD AECK SARGENT
A KATERRA COMPANY

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
WINDOW ELEVATIONS & SCHEDULE

SCALE (U.N.O.)

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

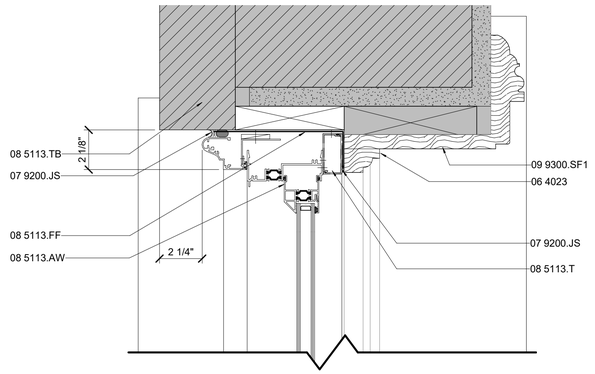
LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

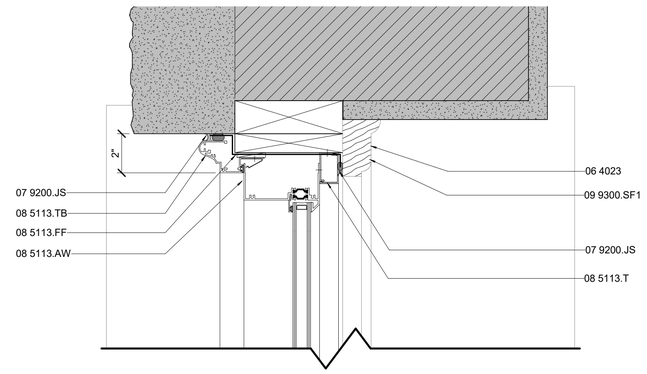
JOB. NO.
11396-00

DWG. NO.
A604

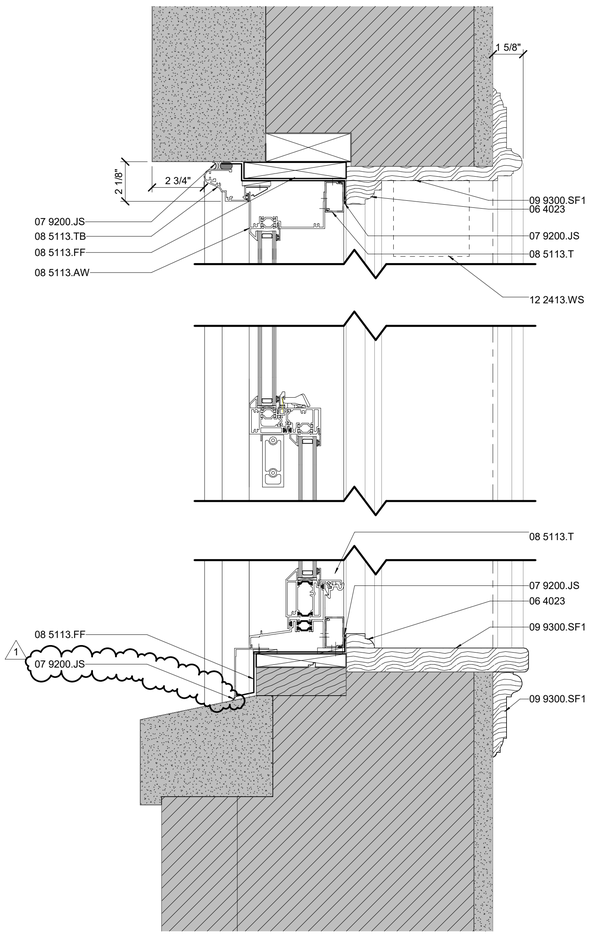
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:09 PM



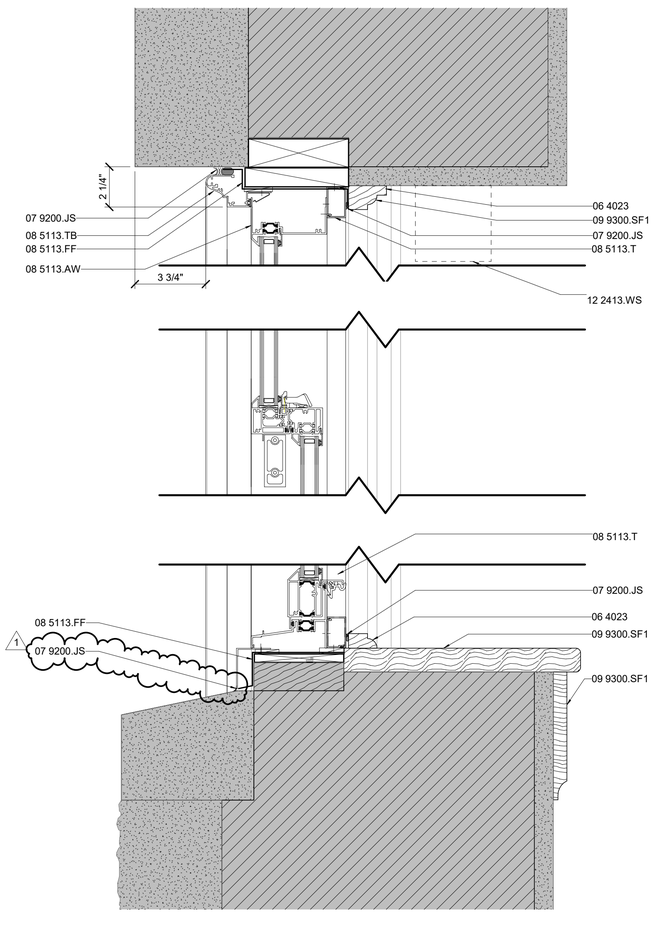
G4 WINDOW @ BRICK JAMB DETAIL



G9 WINDOW @ LIMESTONE BOX OUT JAMB DETAIL



A4 WINDOW @ BRICK DETAIL



A9 WINDOW @ LIMESTONE BOX OUT DETAIL

MATERIAL KEYNOTES

06 4023	INTERIOR ARCHITECTURAL WOODWORK RESTORATION
07 9200.JS	JOINT SEALANT
08 5113.AW	ALUMINUM WINDOW
08 5113.FF	FLEXIBLE FLASHING
08 5113.T	TRIM
08 5113.TB	TRIM, BRICKMOLD
09 9300.SF1	STAINED FINISH 1
12 2413.WS	WINDOW SHADE

GENERAL NOTES

A. FIELD VERIFY ALL DIMENSIONS.

B. VERIFY IN FIELD ALL EXISTING CONDTIONS. IF TRIM IS TOO LARGE OVER WINDOW FRAME, REMOVE TRIM AND REPLACE WITH NEW TRIM DESIGN.

C. REMOVE WINDOW CASING FOR WINDOW INSTALLATION, SURFACE PREPARATION AND FINISH APPLICATION. SEE SPECIFICATION 06 4023 FOR RESTORATION AND FINISH SCHEDULE FOR FINISH MATERIAL. WINDOW CASING SHALL BE REUSED IN EXISTING OPENINGS.

D. REMOVE ALL EXTERIOR BRICK TRIM.

E. NOTE TWO TONE PAINT SCHEME FOR EXTERIOR WINDOWS.

F. ALL NEW WOOD BLOCKING TO BE FIRE-RETARDANT TREATED. SEE SPECIFICATION 06 1000.

G. FLASHING AT HEAD, JAMBS AND SILL SHALL EXTEND FULL DEPTH OF WINDOW FRAME. FORM TURNED DAMS BETWEEN INTERIOR WOODWORK AND TRIM AS SHOWN.

H. THE EXTERIOR PERIMETER CAULK JOINT MUST ADHERE TO BOTH THE PROFILED PANNING AS WELL AS THE FLEXIBLE FLASHING MEMBRANE. COORDINATE THESE TWO ELEMENTS IN EACH OPENING.

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: WINDOW DETAILS

SCALE (U.N.O.): 0 6 12 IN

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

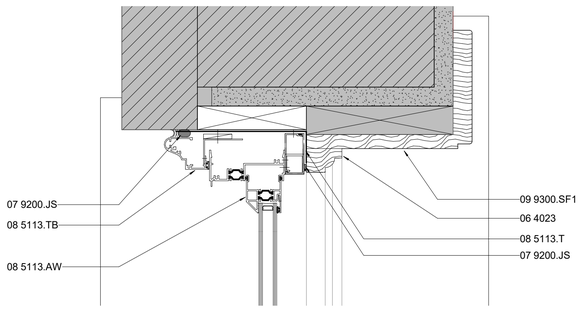
SEAL: Karen Gravel REGISTERED NO. 7288 COMMONWEALTH OF KENTUCKY ARCHITECT

ISSUE DATE: July 02, 2021

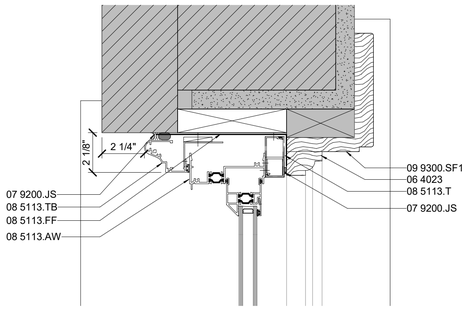
JOB. NO.: 11396-00

DWG. NO.: A605

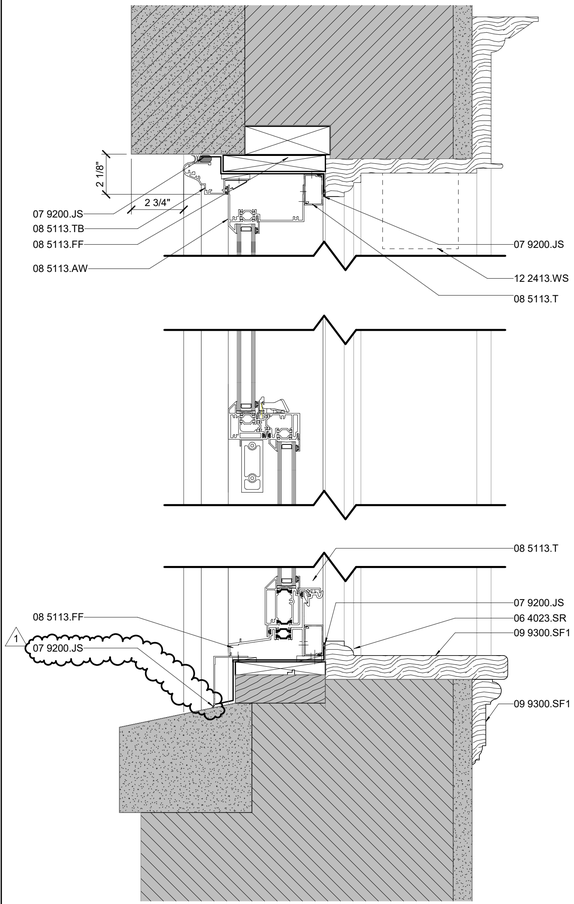
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:10 PM



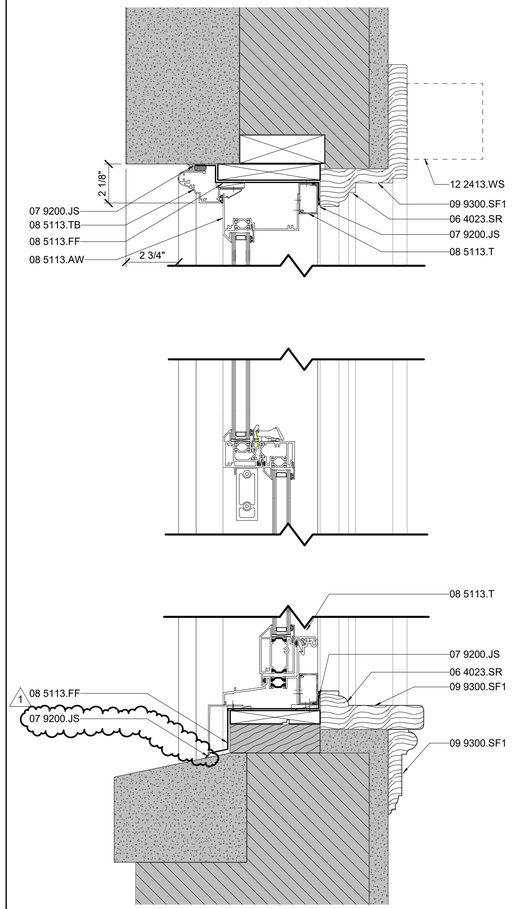
G4 WINDOW @ HISTORIC TRIM JAMB



G9 WINDOW @ 3 WYTHE JAMB



A4 WINDOW DETAILS - HISTORIC TRIM



A9 WINDOW DETAIL - 3 WYTHE BRICK

MATERIAL KEYNOTES

06 4023	INTERIOR ARCHITECTURAL WOODWORK RESTORATION
06 4023.SR	SILL REPAIR
07 9200.JS	JOINT SEALANT
08 5113.AW	ALUMINUM WINDOW
08 5113.FF	FLEXIBLE FLASHING
08 5113.T	TRIM
08 5113.TB	TRIM, BRICKMOLD
09 9300.SF1	STAINED FINISH 1
12 2413.WS	WINDOW SHADE

GENERAL NOTES

A. FIELD VERIFY ALL DIMENSIONS.

B. VERIFY IN FIELD ALL EXISTING CONDTIONS. IF TRIM IS TOO LARGE OVER WINDOW FRAME, REMOVE TRIM AND REPLACE WITH NEW TRIM DESIGN.

C. REMOVE WINDOW CASING FOR WINDOW INSTALLATION, SURFACE PREPARATION AND FINISH APPLICATION. SEE SPECIFICATION 06 4023 FOR RESTORATION AND FINISH SCHEDULE FOR FINISH MATERIAL. WINDOW CASING SHALL BE REUSED IN EXISTING OPENINGS.

D. REMOVE ALL EXTERIOR BRICK TRIM.

E. NOTE TWO TONE PAINT SCHEME FOR EXTERIOR WINDOWS.

F. ALL NEW WOOD BLOCKING TO BE FIRE-RETARDANT TREATED. SEE SPECIFICATION 06 1000.

G. FLASHING AT HEAD, JAMBS AND SILL SHALL EXTEND FULL DEPTH OF WINDOW FRAME. FORM TURNED DAMS BETWEEN INTERIOR WOODWORK AND TRIM AS SHOWN.

H. THE EXTERIOR PERIMETER CAULK JOINT MUST ADHERE TO BOTH THE PROFILED PANNING AS WELL AS THE FLEXIBLE FLASHING MEMBRANE. COORDINATE THESE TWO ELEMENTS IN EACH OPENING.

SHEET SPECIFIC NOTES

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: WINDOW DETAILS

SCALE (U.N.O.): 0 6 12 IN

JOB NAME: University of Kentucky 2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

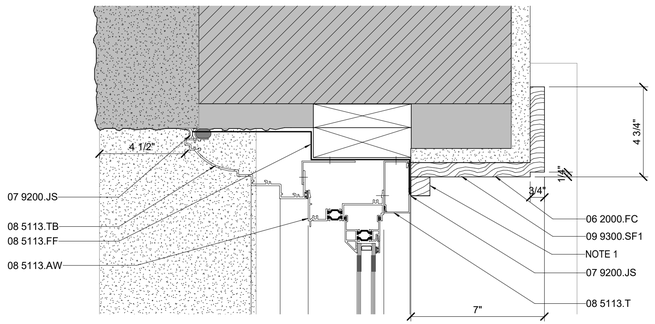
Karen Gravel REGISTERED NO. 7288 COMMONWEALTH OF KENTUCKY ARCHITECT

ISSUE DATE: July 02, 2021

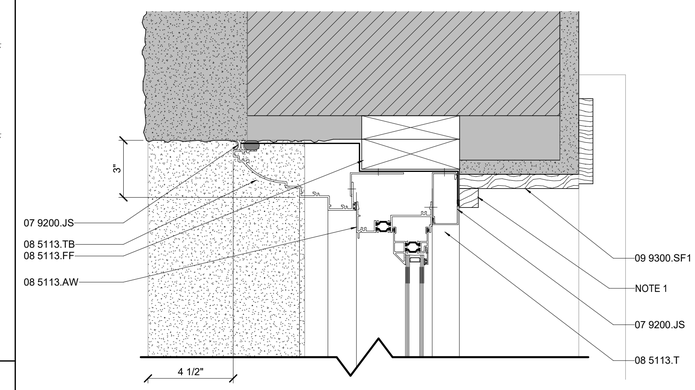
JOB. NO.: 11396-00

DWG. NO.: A606

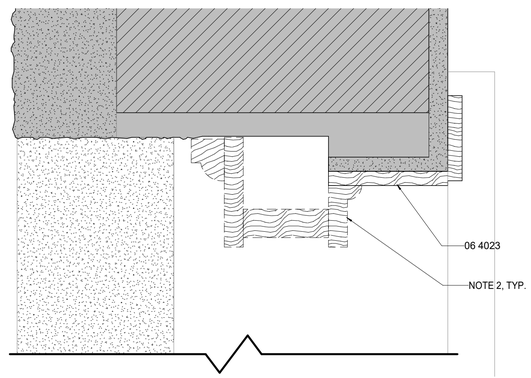
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:12 PM



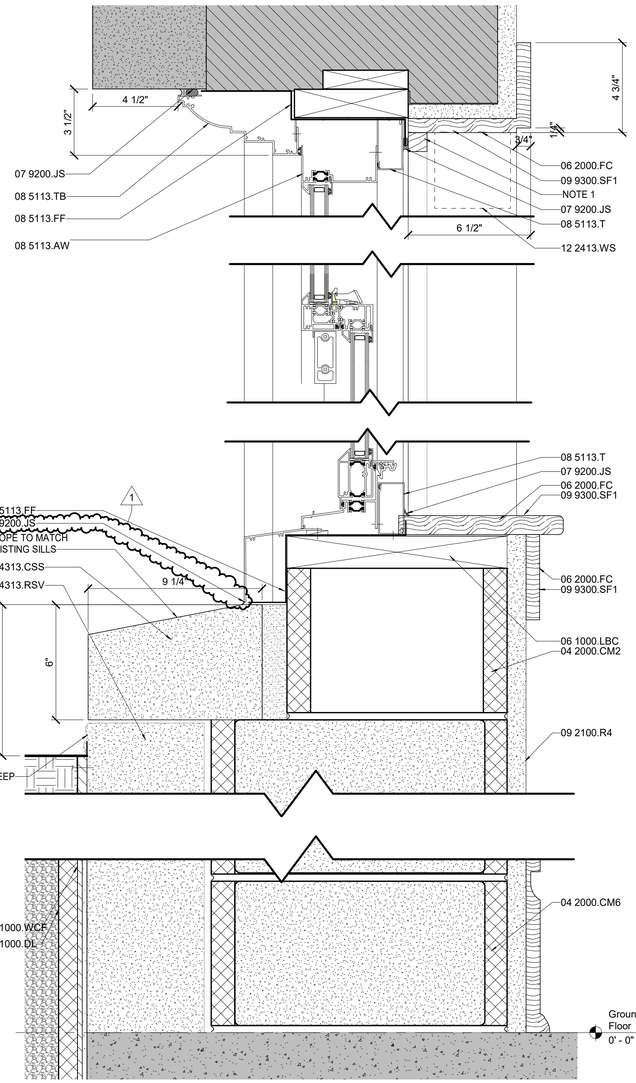
H1 WINDOW JAMB @ INFILL



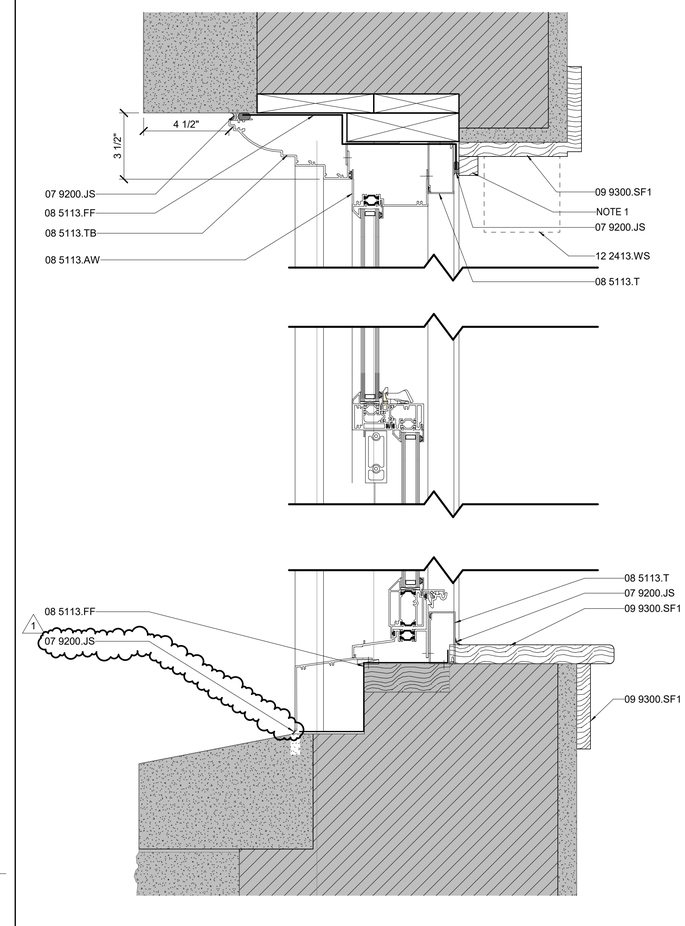
G5 WINDOW @ LIMESTONE JAMB DETAIL



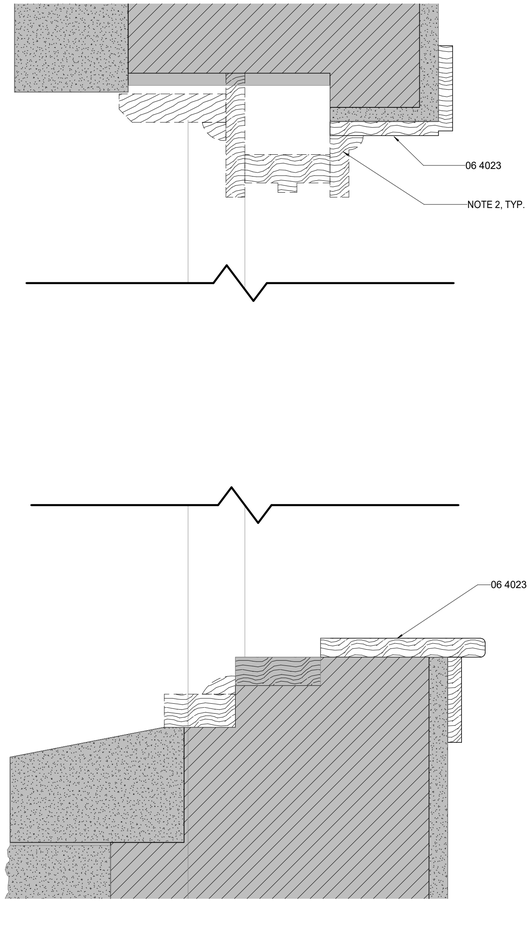
G10 WINDOW @ LIMESTONE JAMB DETAIL



A1 STONE WINDOW INFILL



A5 WINDOW @ LIMESTONE DETAIL



A10 WINDOW @ LIMESTONE DETAIL

MATERIAL KEYNOTES

04 2000.CM2	12" CONCRETE MASONRY UNITS
04 2000.CM6	16" CONCRETE MASONRY UNITS
04 4313.CSS	CUT STONE SILL
04 4313.RSV	RUBBLE STONE VENEER
06 1000.LBC	BLOCKING, CONTINUOUS
06 2000.FC	FINISH CARPENTRY
06 4023	INTERIOR ARCHITECTURAL WOODWORK RESTORATION
07 1000.DL	DRAINAGE LAYER
07 1000.WCF	COLD FLUID-APPLIED WATERPROOFING
07 9200.JS	JOINT SEALANT
08 5113.AW	ALUMINUM WINDOW
08 5113.FF	FLEXIBLE FLASHING
08 5113.T	TRIM
08 5113.TB	TRIM, BRICKMOLD
09 2100.R4	PLASTER - ALL COAT REPLACEMENT
09 9300.SF1	STAINED FINISH 1
12 2413.WS	WINDOW SHADE

GENERAL NOTES

A. FIELD VERIFY ALL DIMENSIONS.

B. VERIFY IN FIELD ALL EXISTING CONDTIONS. IF TRIM IS TOO LARGE OVER WINDOW FRAME, REMOVE TRIM AND REPLACE WITH NEW TRIM DESIGN.

C. REMOVE WINDOW CASING FOR WINDOW INSTALLATION, SURFACE PREPARATION AND FINISH APPLICATION. SEE SPECIFICATION 06 4023 FOR RESTORATION AND FINISH SCHEDULE FOR FINISH MATERIAL. WINDOW CASING SHALL BE REUSED IN EXISTING OPENINGS.

D. REMOVE ALL EXTERIOR BRICK TRIM.

E. NOTE TWO TONE PAINT SCHEME FOR EXTERIOR WINDOWS.

F. ALL NEW WOOD BLOCKING TO BE FIRE-RETARDANT TREATED. SEE SPECIFICATION 06 1000.

G. FLASHING AT HEAD, JAMBS AND SILL SHALL EXTEND FULL DEPTH OF WINDOW FRAME. FORM TURNED DAMS BETWEEN INTERIOR WOODWORK AND TRIM AS SHOWN.

H. THE EXTERIOR PERIMETER CAULK JOINT MUST ADHERE TO BOTH THE PROFILED PANNING AS WELL AS THE FLEXIBLE FLASHING MEMBRANE. COORDINATE THESE TWO ELEMENTS IN EACH OPENING.

SHEET SPECIFIC NOTES

1. NEW WOOD WINDOW CASING. STAIN TO MATCH EXISTING TRIM.
2. REMOVE EXISTING WINDOW CASING AND TRIM.

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7298
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: WINDOW DETAILS

SCALE (U.N.O.): 0 6 12" IN

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

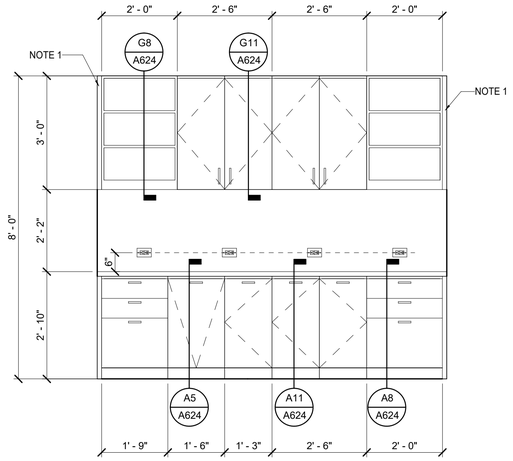
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 02, 2021

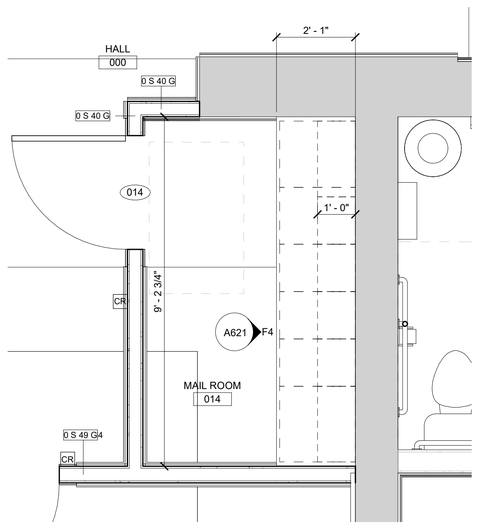
JOB. NO. 11396-00

DWG. NO. A607

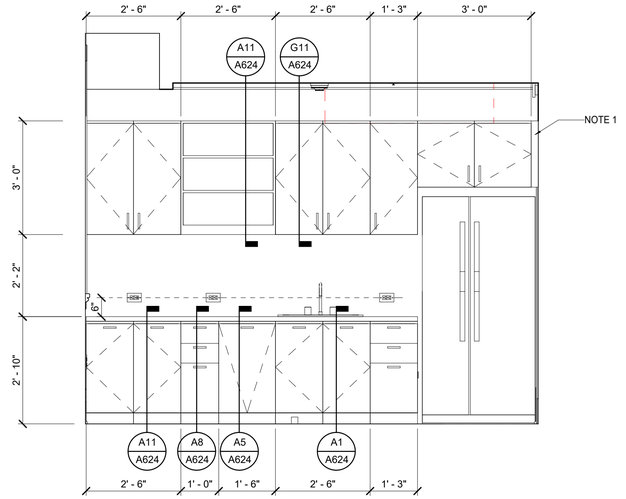
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:14 PM



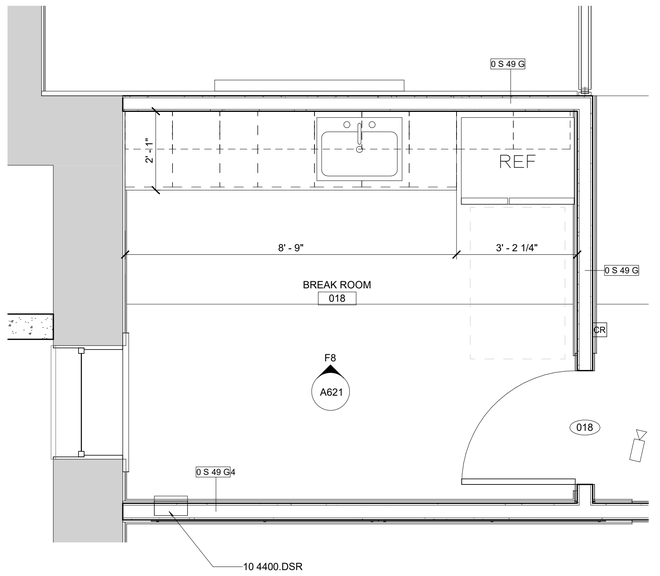
F4 ENLARGED INT. ELEV - MAIL ROOM - GF



A4 ENLARGED PLAN - WORK - GF



F8 ENLARGED INT. ELEV. - BR004 -GF



A8 ENLARGED PLAN - BR004 - GF

MATERIAL KEYNOTES

1	10 4400.DSR	DRY CHEMICAL FE AND SEMI-RECESSED CABINET

GENERAL NOTES

SHEET SPECIFIC NOTES

1. FILLER PANEL, VERIFY FIELD WIDTH.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
ENLARGED CASEWORK PLANS & ELEVATIONS

SCALE (U.N.O.)
0 2 4 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

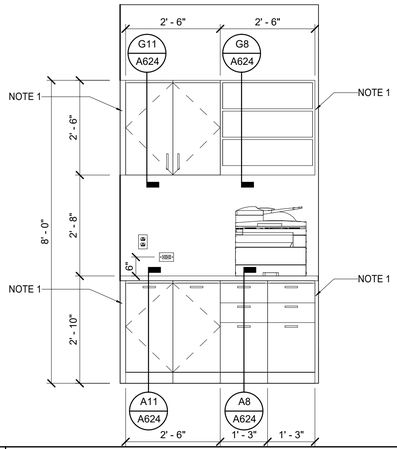
SEAL
Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

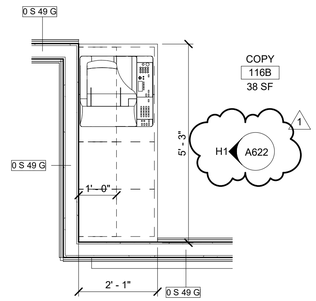
JOB. NO.
11396-00

DWG. NO.
A621

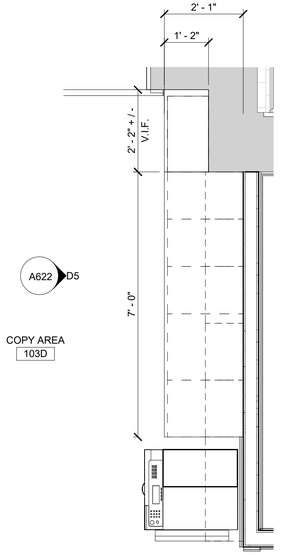
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:16 PM



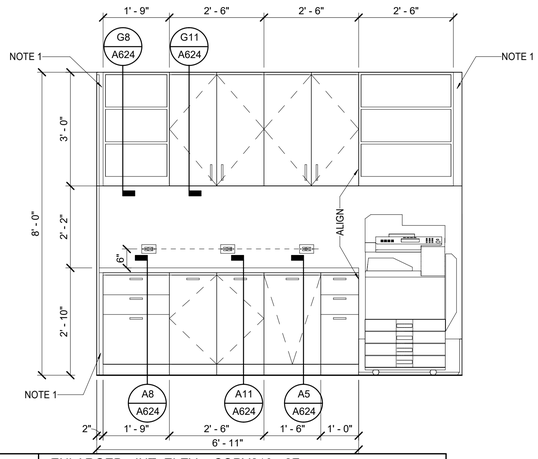
H1 ENLARGED - INT. ELV. - BIAS102 - 1F



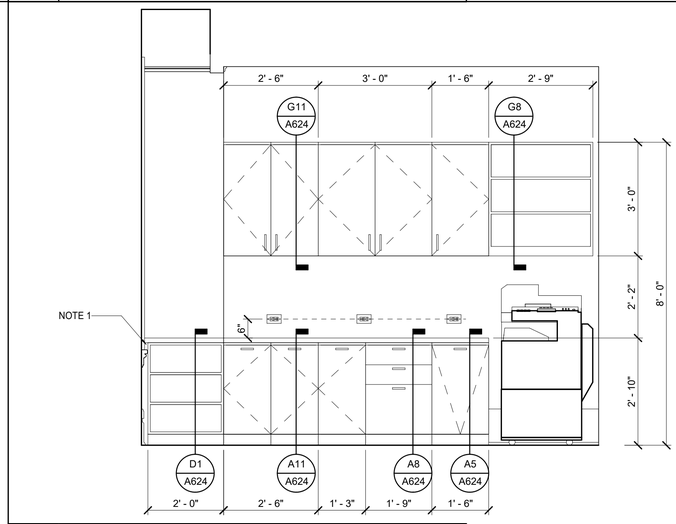
H5 ENLARGED PLAN - BIAS102 - 1F



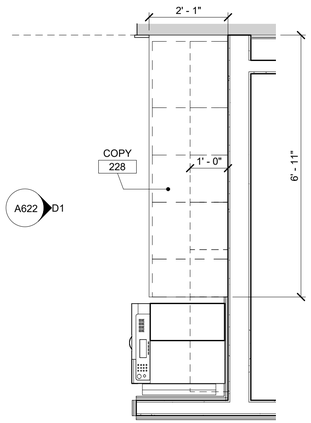
F10 ENLARGED PLAN - KWEEK - 1F



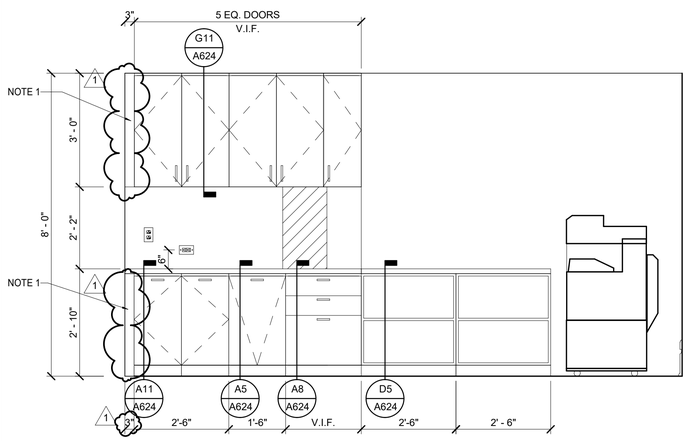
D1 ENLARGED - INT. ELEV. - COPY210 - 2F



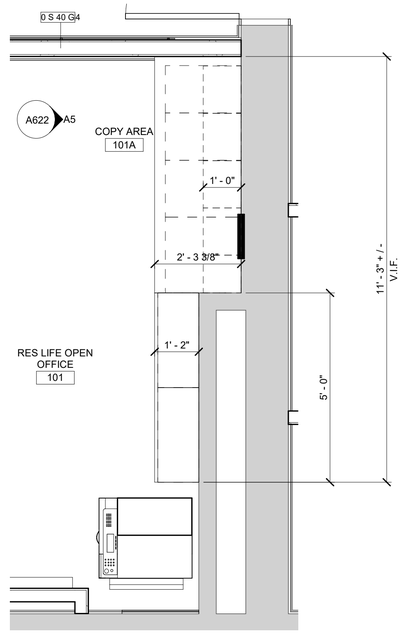
D5 ENLARGED INT ELEVATION - K WEEK COPY



A1 ENLARGED PLAN - COPY210 - 2F



A5 ENLARGED - INT. ELEV. - RESOFF - 1F



A10 ENLARGED PLAN - RESOFF - 1F

MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

1. FILLER PANEL, FIELD VERIFY WIDTH.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: ENLARGED CASEWORK PLANS & ELEVATIONS

SCALE (U.N.O.): 0 2 4FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

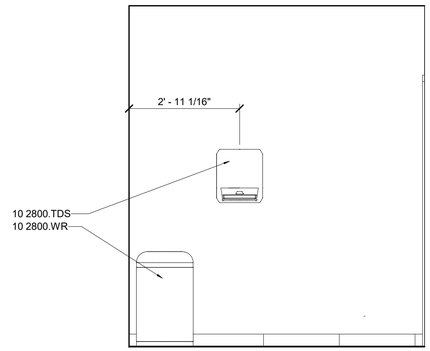
Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

ISSUE DATE: July 02, 2021

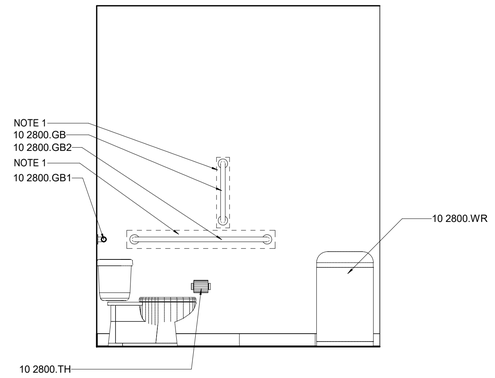
JOB. NO.: 11396-00

DWG. NO.: A622

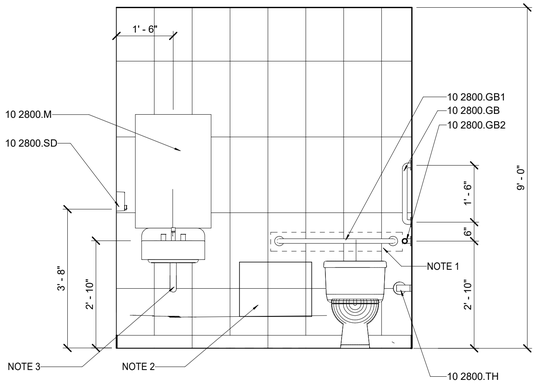
BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:17 PM



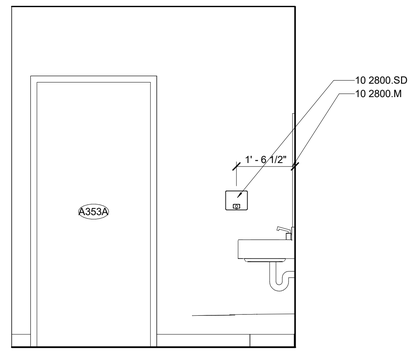
H6 | INT. ELEV - SC TOILETA353A - WEST



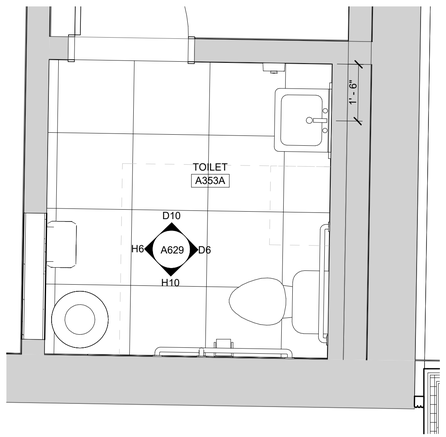
H10 | INT. ELEV - SC TOILETA353A - SOUTH



D6 | INT. ELEV - SC TOILETA353A - EAST



D10 | INT. ELEV - SC TOILETA353A - NORTH



A10 | ENLARGED PLAN - SC TOILET

MATERIAL KEYNOTES

10 2800.GB	GRAB BAR
10 2800.GB1	GRAB BAR (36")
10 2800.GB2	GRAB BAR (42")
10 2800.M	MIRROR
10 2800.SD	SOAP DISPENSER
10 2800.TDS	TOWEL DISPENSER, SURFACE MT.
10 2800.TH	TOILET TISSUE HOLDER
10 2800.WR	WASTE RECEPTACLE

GENERAL NOTES

A. REFER TO G.043 FOR TYPICAL TOILET ACCESSORY AND GRAB BAR MOUNTING HEIGHTS.
1 B. ALL TOILET ACCESSORIES ARE EXISTING U.N.O.

SHEET SPECIFIC NOTES

1. PROVIDE BLOCKING AT GRAB BARS.
2. EXISTING ACCESS PANEL TO REMAIN.
3. PIPING INSULATION COVER SEE SPECIFICATION 22 07 00

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7268
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
ENLARGED RESTROOM PLAN AND ELEVATIONS

SCALE (U.N.O.)
0 1 2 4 FT

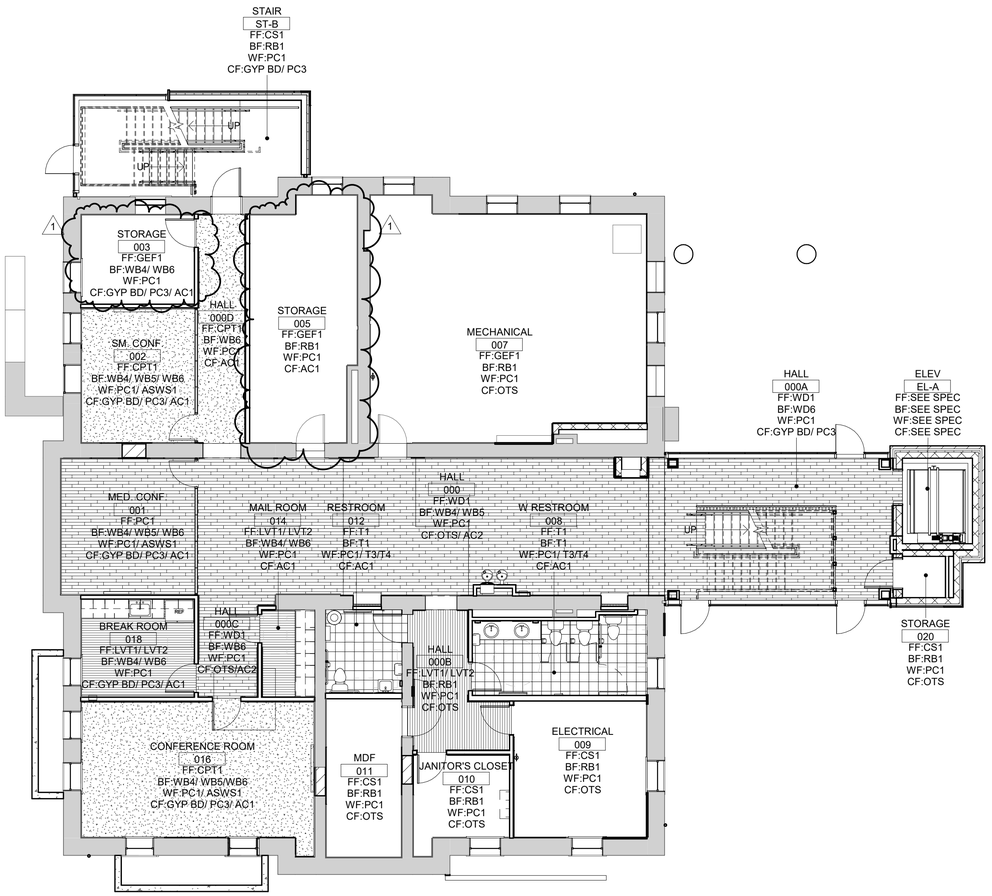
JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A629



GENERAL NOTES

A. STANDARDS AND PROCEDURES FOR THE PREPARATION AND APPLICATION OF INTERIOR FINISHES ARE DEFINED IN THE PROJECT MANUAL.

B. FINISH MATERIALS ARE LISTED IN THE LEGEND COMPONENT OF THE FINISH SCHEDULE. SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

C. PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED PC6 UNLESS NOTED OTHERWISE. MATERIAL INFORMATION FOR ALL OTHER DOORS AND FRAMES IS CONTAINED IN THE DOOR SCHEDULE AND ITS ASSOCIATED LEGENDS.

D. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).

E. PAINT DESIGNATED FOR METAL STAIR COMPONENTS IS TO INCLUDE ALL EXPOSED METAL COMPONENTS ASSOCIATED WITH THE STAIR SYSTEM ITSELF, ALL EXPOSED STRUCTURAL STEEL COMPONENTS SUPPORTING THE STAIR SYSTEM (UNLESS NOTED OTHERWISE), AND ALL EXPOSED METAL COMPONENTS OF THE HANDRAIL AND GUARDRAIL SYSTEMS (UNLESS NOTED OTHERWISE). UNDERSIDE OF STAIR RUNS AND LANDINGS ARE CONSIDERED "EXPOSED" IN ALL SITUATIONS. INCLUDE EXPOSED ROOF DECK AND STRUCTURE AT STAIR B

F. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.

G. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.

H. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE SPECIFICATIONS, FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.

I. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.

J. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

MATERIAL KEYNOTES

FLOORS

Vinyl Composition Tile (VCT)
VCT1: VCT TO MATCH EXIST. AT STUDENT CENTER

Resilient Plank (LVT)
LVT1: LUXURY VINYL TILE, FIELD COLOR
LVT2: LUXURY VINYL TILE, ACCENT COLOR
LVT3: LUXURY VINYL TILE, IDF ROOM

Sealed Concrete (CS)
CS1: SEALED CONCRETE, CLEAR

Gloss Epoxy Floor (GEF)
GEF1: EPOXY FLOOR FINISH, COLOR 1

Carpet Tile (CPT)
CPT1: FIELD COLOR CARPET TILE
CPT2: WALK-OFF CARPET TILE
CPT3: CARPET TILE

Ceramic Tile (T)
T1: FIELD COLOR FLOOR TILE
T2: STUDENT CENTER FLOOR TILE
T6: QUARRY TILE

Wood Plank (WD)
WD1: ENGINEERED WOOD FLOORING
WD2: SOLID WOOD FLOORING

BASE

Rubber Base (RB)
RB1: RUBBER BASE, COLOR 1
RB2: RUBBER BASE, COLOR 2

Wood Base (WB)
WB1: EXISTING WOOD BASE
WB2: NEW WOOD BASE TO MATCH EXISTING
WB3: NEW WOOD BASE/ PROFILE
WB4: EXISTING WOOD BASE (GROUND FLOOR)
WB5: NEW WOOD BASE TO MATCH EXISTING (GROUND FLOOR)
WB6: NEW WOOD BASE/ PROFILE (GROUND FLOOR)

WALLS

Ceramic Tile (T)
T3: FIELD COLOR WALL TILE
T4: ACCENT COLOR WALL TILE
T5: STUDENT CENTER WALL TILE

Paint (PC)
P 1: FIELD COLOR PAINT
P 2: ACCENT COLOR PAINT
PC3: CEILING PAINT
PC4: STUDENT CENTER WALL PAINT
PC5: METAL STAIR/ RAILING PAINT
PC6: HOLLOW METAL FRAME PAINT

High Performance Coating (HPC)
HPC1: ARCHITECTURALLY EXPOSED STEEL

CEILINGS

Acoustic Ceiling (AC)
AC1: ACOUSTIC CEILING TILE
AC2: SUSPENDED CEILING CLOUD
AC2a: SUSPENDED CEILING CLOUD W/ INTEGRAL LIGHT
AC3: ACOUSTIC CEILING TILE
AC4: ACOUSTIC CEILING TILE

MISCELLANEOUS

Acoustic Wall Panel (AWP)
ASWS1: ACOUSTIC WALL PANEL, COLOR 1

Plastic Laminate (PL)
PL1: PLASTIC LAMINATE, COLOR 1

Solid Surface (SS)
SS1: COUNTERTOP
SS2: WINDOW STOOL

Window Treatment (WT)
WT1: WINDOW SHADES

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE: FINISH FLOOR PLAN - GROUND FLOOR

SCALE (U.N.O.): 0 8 16 FT

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

Karen Grave
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

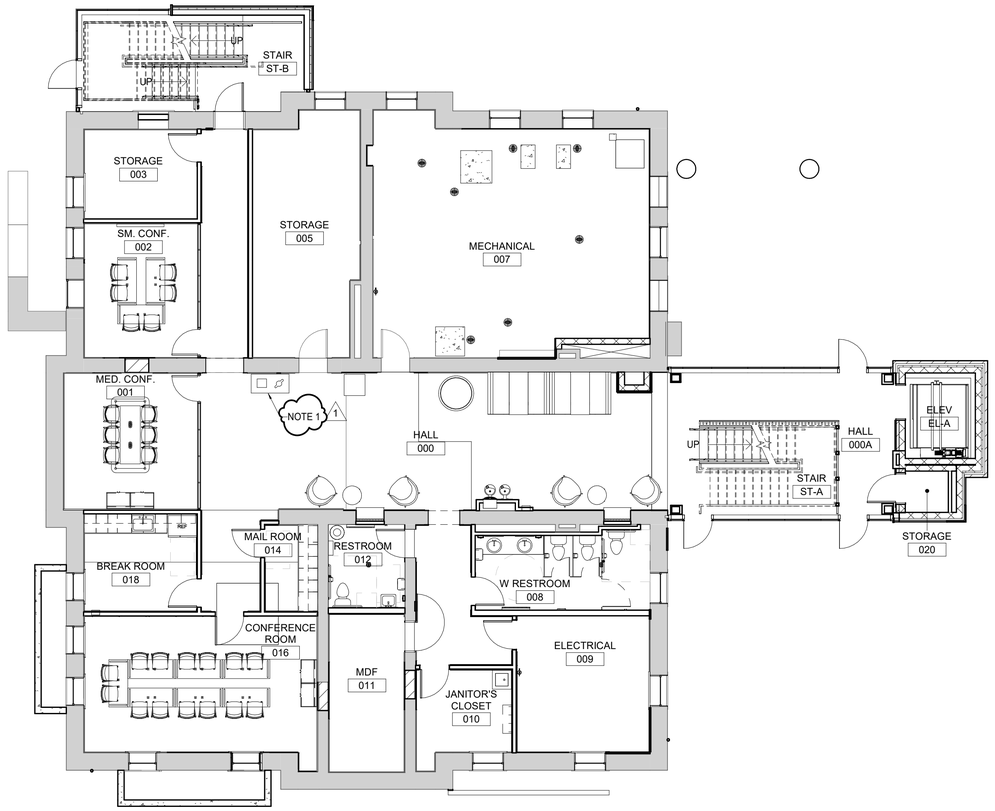
ISSUE DATE: July 02, 2021

JOB. NO.: 11396-00

DWG. NO.: A710

A1 GROUND FLOOR FINISH PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_ v21.rvt
7/29/2021 10:51:21 PM



MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

1. OWNER PROVIDED TRASH AND RECYCLE CONTAINER.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
FURNITURE PLAN - GROUND FLOOR
(REFERENCE ONLY)

SCALE (U.N.O.)
0 8 16 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL
Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

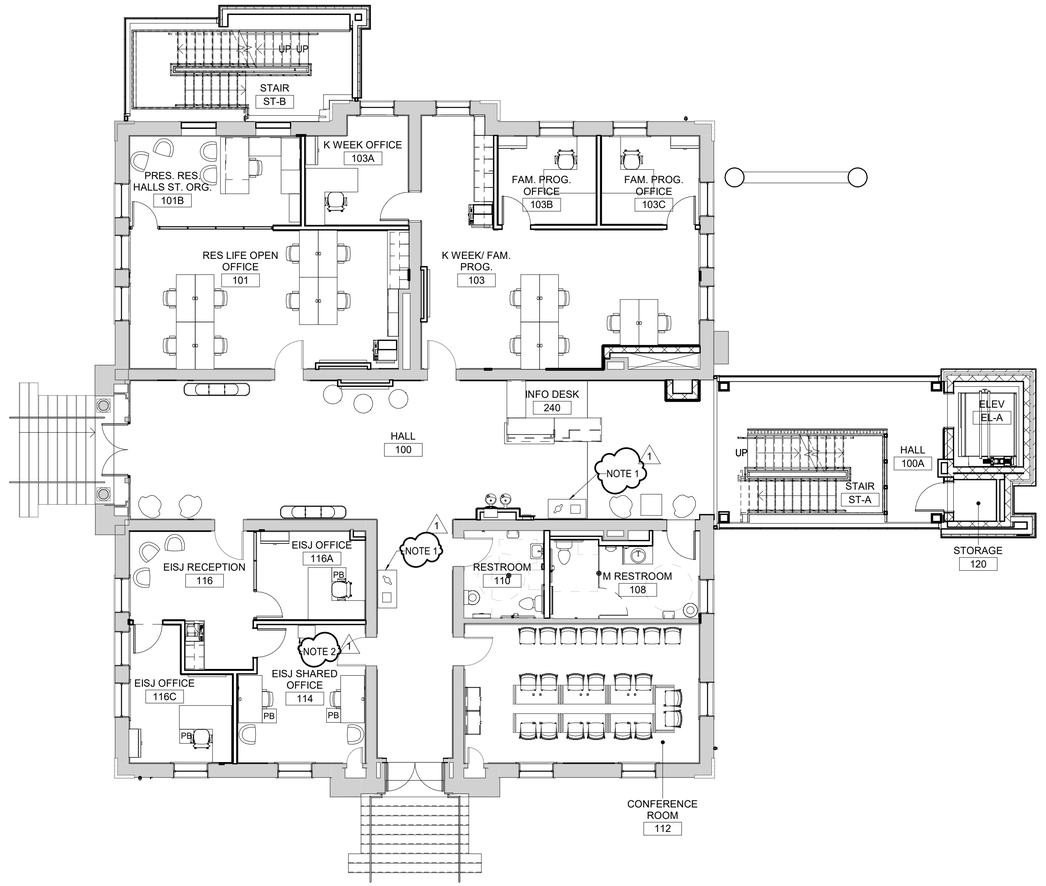
ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A800

A1 GROUND FLOOR FURNITURE PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:23 PM



MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

1. OWNER PROVIDED TRASH AND RECYCLE CONTAINER.
2. OWNER PROVIDED CONFIDENTIAL FAX CABINET.

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
FURNITURE PLAN - FIRST FLOOR
(REFERENCE ONLY)

SCALE (U.N.O.)
0 8 16 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL
Karen Gravel
REGISTERED
NO.
7288
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

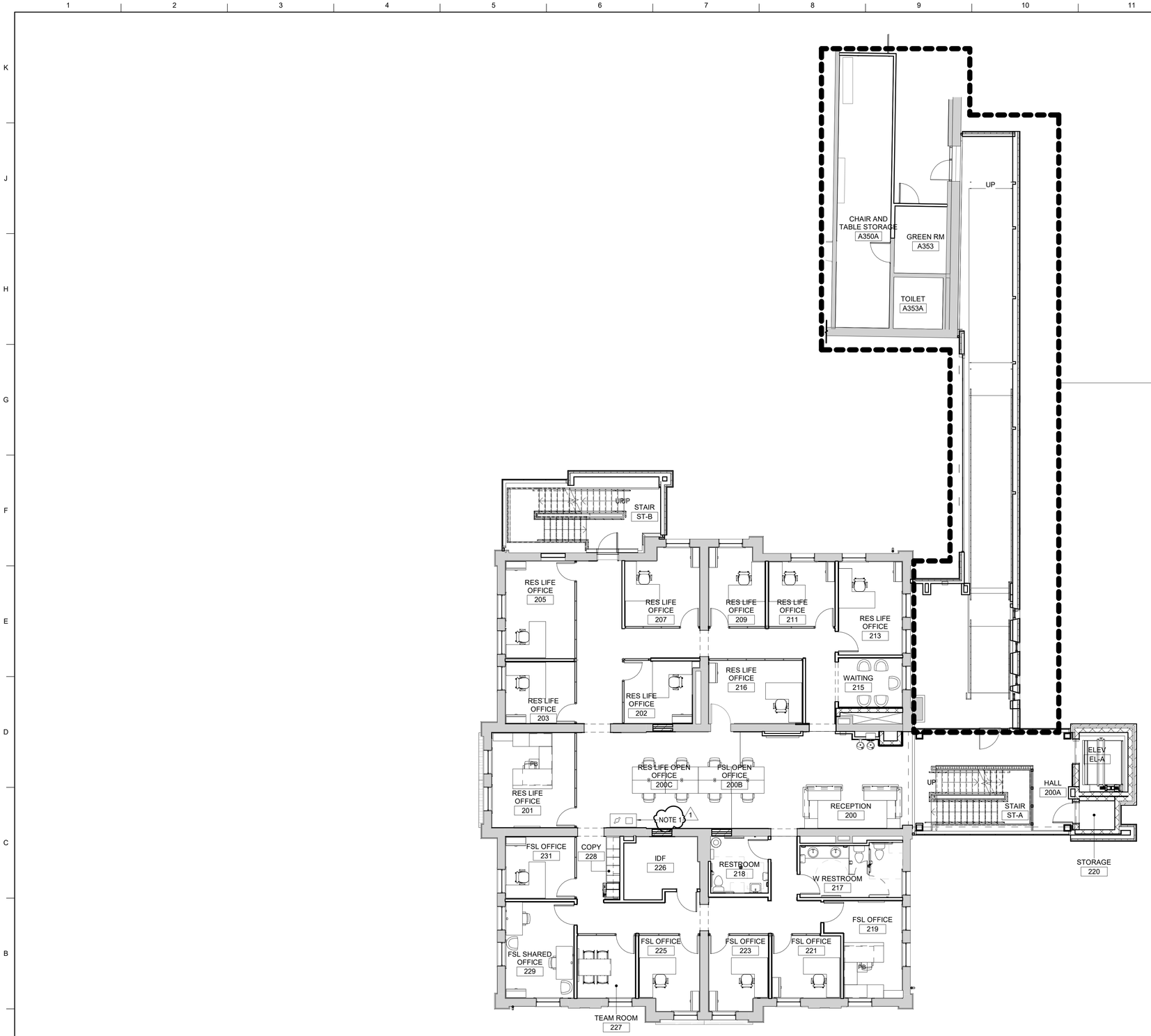
ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A801

A1 FIRST FLOOR FURNITURE PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:25 PM



MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

1. OWNER PROVIDED TRASH AND RECYCLE CONTAINER.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

SHEET TITLE
FURNITURE PLAN - SECOND FLOOR (REFERENCE ONLY)

SCALE (U.N.O.) 0 8 16 FT

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL
Karen Gravel
REGISTERED
NO. 7286
COMMONWEALTH OF KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A802

A1 SECOND FLOOR FURNITURE PLAN

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:27 PM

MATERIAL KEYNOTES

GENERAL NOTES

SHEET SPECIFIC NOTES

1. OWNER PROVIDED TRASH AND RECYCLE CONTAINER.
2. OWNER PROVIDED CONFIDENTIAL FAX CABINET.

A1 THIRD FLOOR FURNITURE PLAN

KEY PLAN

PROJECT NORTH

SEAL

Karen Gravel
REGISTERED
NO.
7286
COMMONWEALTH
OF
KENTUCKY
ARCHITECT

ISSUE DATE
July 02, 2021

JOB. NO.
11396-00

DWG. NO.
A803

JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

SHEET TITLE
FURNITURE PLAN - THIRD FLOOR
(REFERENCE ONLY)

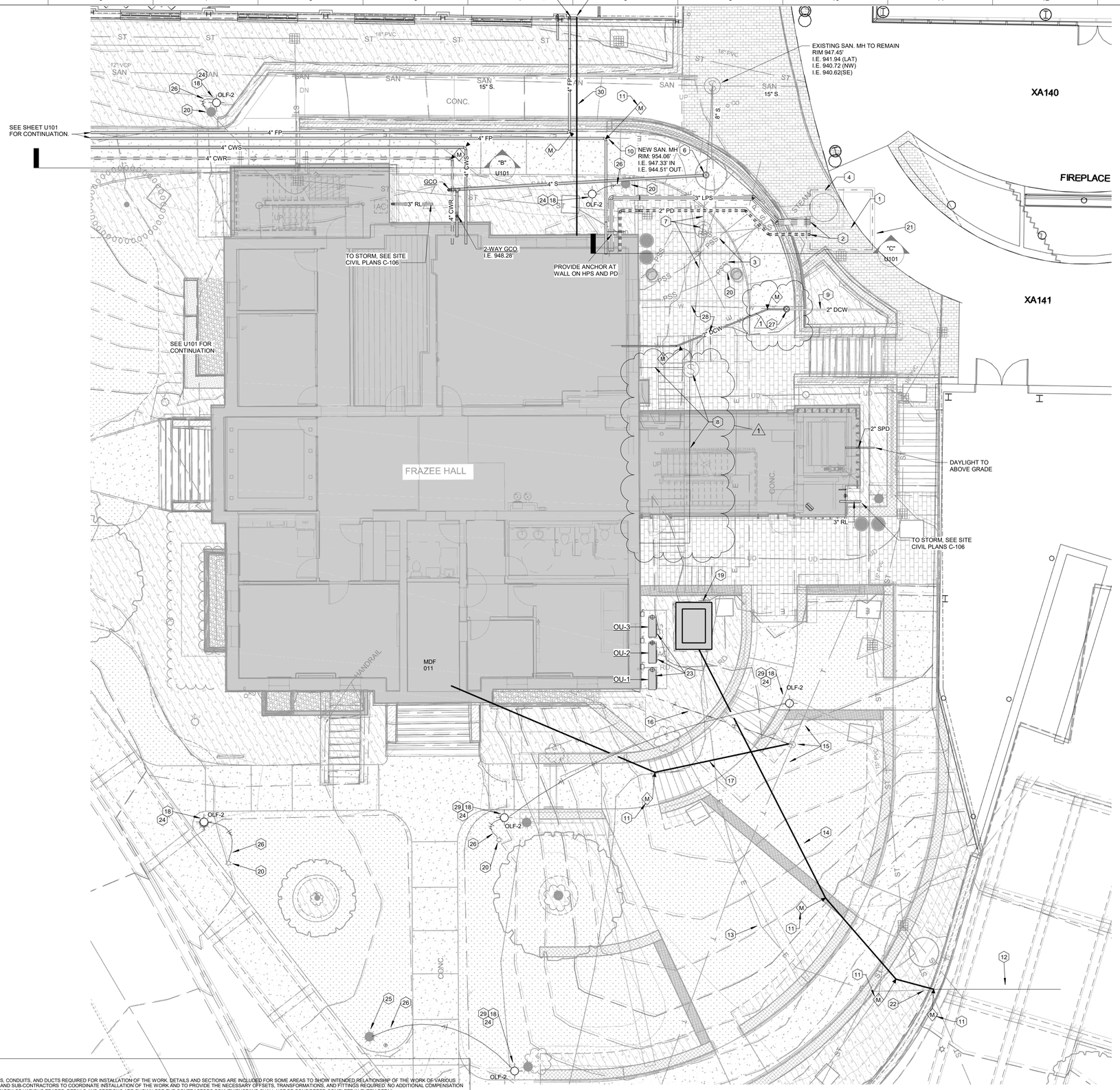
SCALE (U.N.O.)
0 8 16 FT

REVISION:

1	Addendum #1	7/30/21

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

BIM 360://11396-00 UK Frazee Hall/Central_11396-00_v21.rvt
7/29/2021 10:51:30 PM



CODED NOTES:

1. REMOVE EXISTING CONDENSTATE PUMP IN VAULT AND ALL ASSOCIATED CONTROLS AND ELECTRIC. CONNECT INLET AND OUTLET PIPING TOGETHER.
2. CONNECT TO EXISTING LPS AND PD IN EXISTING VAULT. INSTALL ANCHOR AT VAULT WALL. SEAL AT WALL (SEE DETAILS).
3. REMOVE EXISTING STEAM AND PD LINES.
4. EXISTING STEAM VAULT TO REMAIN.
5. 4" FP TO STUDENT CENTER UNDER GROUND. RISE UP INSIDE AND GO THROUGH BASEMENT AND INTO FIRE PUMP ROOM AND CONNECT TO EXISTING FIRE MAIN. SEE SHEET FP104 FOR CONTINUATION.
6. NEW MANHOLE ON EXISTING 8" S. LINE, FIELD VERIFY INVERT PRIOR TO CONSTRUCTION. SEE MANHOLE DETAIL ON SHEET U000
7. EXISTING SAN. MH & 8" DI TO BE REMOVED, RIM 952.0', I.E. 945.0'
8. EXISTING SAN. MH, 8" DI BLDG LATERAL(S) TO BE REMOVED.
9. EXISTING 2" DOMESTIC WATER LINE TO METER TO REMAIN. FIELD VERIFY LINE SIZE PRIOR TO CONSTUCTION. NOTIFY ENGINEER OF ANY DISCREPANCY.
10. THRUST BLOCK (TYPICAL). SEE DETAIL SHEET U001.
11. UTILITY MARKER (TYPICAL). SEE DETAIL SHEET U001.
12. EXISTING ELECTRIC DUCT BANK SHALL REMAIN AND BE REUSED.
13. EXISTING ELECTRIC DUCT BANK SHALL BE REMOVED.
14. NEW UNDERGROUND ELECTRIC DUCT BANK OF TWO 4" CONDUITS (CONCRETE ENCASED). SEE DETAIL.
15. EXISTING TELECOMMUNICATION DUCT BANKS AND MANHOLE U12 SHALL REMAIN. MANHOLE LID SHALL BE EXTENDED UP AS NEEDED PER NEW GRADE.
16. EXISTING TELECOMMUNICATION DUCT BANK SHALL BE REMOVED.
17. NEW TELECOMMUNICATION DUCT BANK OF TWO 4" CONDUITS AND TWO 1-1/4" QUAD BUNDLES (CONCRETE ENCASED). SLOPE TO MANHOLE.
18. NEW POST-TOP LIGHT FIXTURE IS TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT.
19. EXISTING PAD-MOUNTED TRANSFORMER IS TO REMAIN.
20. EXISTING POST-TOP LIGHT FIXTURE IS TO BE DISCONNECTED AND REMOVED. REMOVE ALL ABANDONED CONDUCTORS AND EXPOSED CONDUIT. MAINTAIN CONNECTIONS TO "DOWNSTREAM" FIXTURES.
21. DISCONNECT ELECTRICAL CIRCUIT FROM EXISTING CONDENSATE PUMP TO ALLOW PUMP TO BE DEMOLISHED. REMOVE BACK TO SOURCE OR LAST REMAINING DEVICE.
22. RUN NEW ELECTRIC DUCT BANK TO LOCATION OF EXISTING ELECTRIC DUCT BANK. EXISTING ELECTRIC DUCT BANK IS TWO 4" CONDUITS AND ONE CONDUIT CONTAINS ACTIVE MEDIUM VOLTAGE CABLES. SUGGESTION IS TO INTERCEPT AND CONNECT TO EMPTY CONDUIT FIRST TO ALLOW NEW CABLES TO BE PULLED OR BE PREPARED FOR PULLING WHILE EXISTING CABLING REMAINS IN SERVICE TO SHORTEN THE OUTAGE TIME.
23. INSTALL OUTDOOR UNITS ON CONCRET PAD.
24. ROUTE TWO DATA CABLES IN 1-1/4" CONDUIT FROM BASE OF OLF-2 LIGHT FIXTURE TO MDF. TERMINATE OSP DATA CABLE IN PATCH PANEL AND LEAVE 20' SLACK CABLE COILED IN MDF AND 5' SLACK CABLE COILED IN POLE BASE. PORTS ARE FOR OWNER PROVIDED WIFI DEVICES IN OLF-2 FIXTURES.
25. EXISTING POST-TOP LIGHT FIXTURE IS TO REMAIN IN SAME LOCATION AND CONNECTED TO EXISTING CIRCUIT.
26. CONNECT TO EXISTING LIGHTING CIRCUIT.
27. PROVIDE NEW VALVE AND VALVE BOX IN EXISTING 2" DOMESTIC WATER SERVICE LINE AS REQUIRED FOR EXTENSION OF NEW 2" SERVICE LINE. FIELD VERIFY LINE SIZE AND EXACT LOCATION PRIOR TO CONSTRUCTION.
28. REMOVE EXISTING DOMESTIC WATER SERVICE FROM POINT OF NEW VALVE AND VALVE BOX AND PROVIDE NEW 2" DOMESTIC WATER SERVICE AS INDICATED. FIELD COORDINATE FINAL ROUTING AS REQUIRED.
29. FIXTURE IS TO BE INCLUDED IN BASE BID.
30. PROPOSED ROUTE OF EMERGENCY POWER FEEDERS AND FIBER FROM STUDENT CENTER TO FRAZEE. BASE BID.
31. SEE SHEET E309 FOR CONTINUATION.

SITE UTILITIES PLAN - EAST

SCALE: 1/8" = 1'-0"

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SITE UTILITIES PLAN - EAST

SCALE (U.N.O.): 1/8" = 1'-0"

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

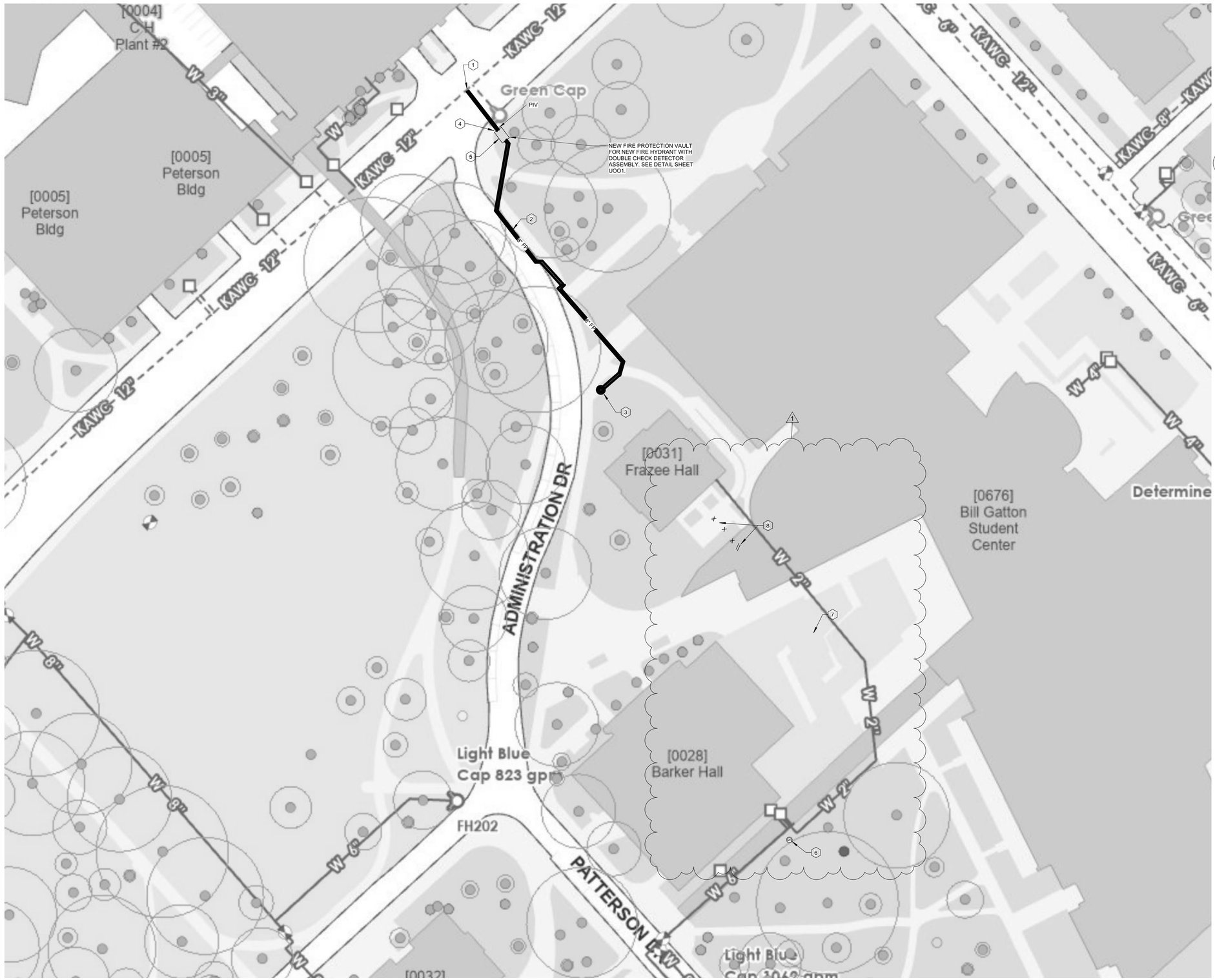
STATE OF KENTUCKY
CHRISTOPHER C KEATH
15308
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

JOB. NO.: 11396-00

DWG. NO.: U100

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 3:04:28 PM



CODED NOTES:

1. KAWC TO PROVIDE 8" FIRE PROTECTION LINE AND CONNECT AT THIS POINT. PROVIDE PIV ON OTHER SIDE OF SIDEWALK. CONTRACTOR SHALL COORDINATE WITH KAWC PRIOR TO CONSTRUCTION AND PAY ALL FEES ASSOCIATED WITH INSTALLATION.
2. 8" FIRE PROTECTION LINE WITH A MINIMUM 3' COVER.
3. NEW FIRE HYDRANT. SEE DETAIL SHEET U002.
4. PROVIDE FIRE ALARM CONNECTION TO POST INDICATOR VALVE. ALL EXPOSED CONDUIT SHALL BE RIGID.
5. PROVIDE FIRE ALARM CONNECTION TO 2 TAMPER SWITCHES IN VAULT.
6. EXISTING WATER METER SERVING FRAZEE HALL. EXISTING DOMESTIC WATER METER TO BE INCREASED TO 1.5" METER. METER PROVIDE BY KAWC. ALL OTHER WORK REQUIRED, METER SET, VAULT, VALVE BOX, FITTINGS, ETC BY THIS CONTRACTOR. PROVIDE PER KAWC SPECIFICATIONS AND DEPTH OF BURY.
7. EXISTING 2" DOMESTIC WATER LINE TO REMAIN TO POINT INDICATED. FIELD VERIFY LINE SIZE AND EXACT LOCATION.
8. EXISTING 2" DOMESTIC WATER LINE TO BE REMOVED FROM POINT INDICATED. SEE SHEET U100 FOR NEW WORK.

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

FIRE PROTECTION SITE UTILITIES PLAN

SCALE: 1" = 40'-0"

KEY PLAN

PROJECT NORTH

SEAL

STATE OF KENTUCKY
CHRISTOPHER C KEATH
19368
LICENSED
PROFESSIONAL ENGINEER

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE
FIRE PROTECTION AND DOMESTIC WATER
SITE UTILITIES PLAN

SCALE (U.N.O.)

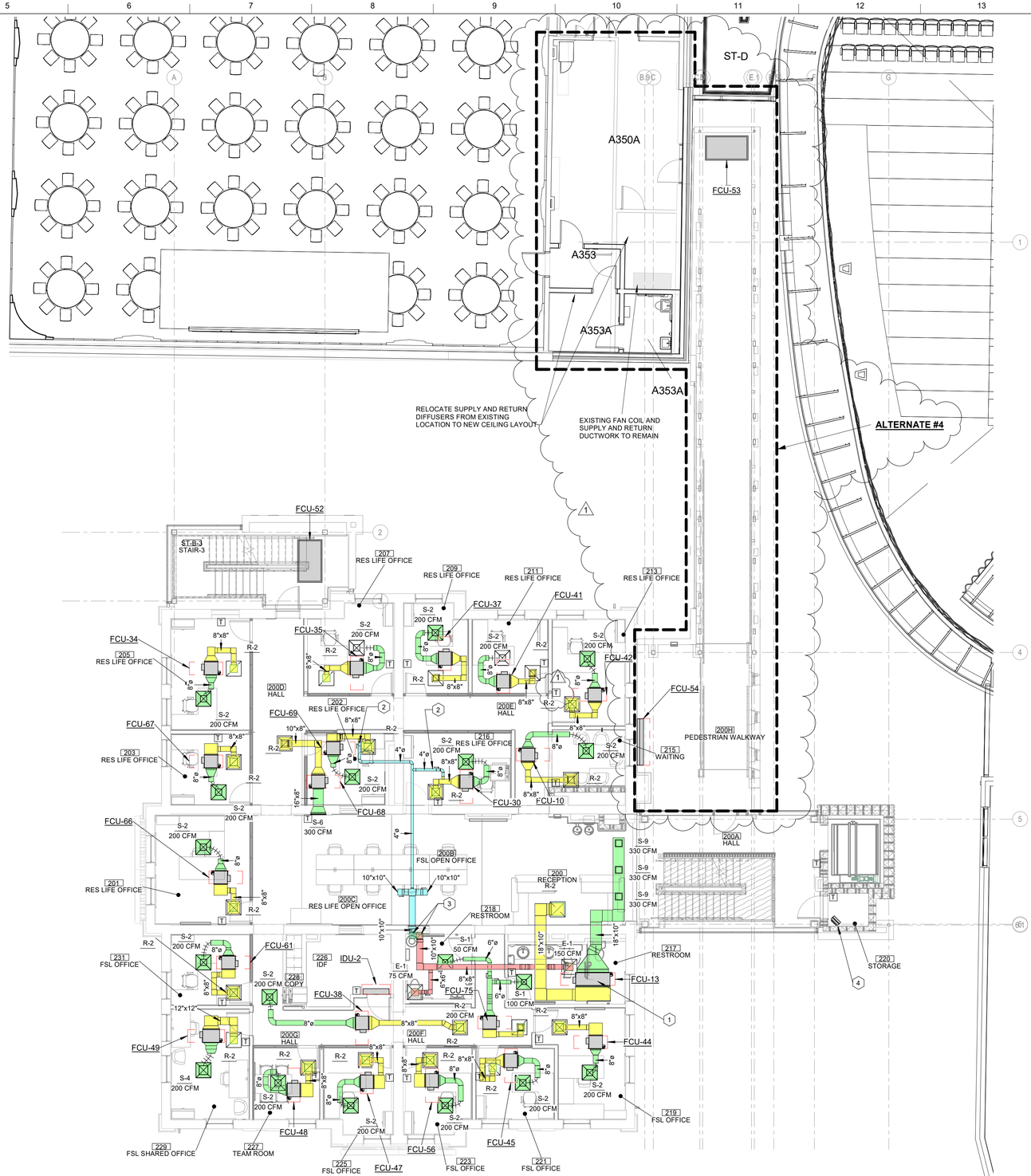
JOB NAME
University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION
406 Administration Drive Lexington, KY 40508

ISSUE DATE
July 2, 2021

JOB. NO.
11396-00

DWG. NO.
U103



CODED NOTES:

1. NEW FAN COIL UNIT ABOVE CEILING, WITH FILTER RETURN GRILL TYPICAL.
2. BALANCE FOR 15 CFM O.A.
3. OUTSIDE AIR AND EXHAUST AIR DUCT DOWN FROM THIRD FLOOR CHASE ABOVE, PROVIDE FIRE DAMPER AT ALL FIRE RATED FLOOR, CEILING, AND WALL AS REQUIRED.
4. PROVIDE ELECTRIC HEATER MODEL 3380, 1.5KW, 120 VOLT. PROVIDE DDC THERMOSTAT TO CYCLE BASED ON ROOM SETPOINT. THERMOSTAT TO CONNECT AND REPORT TO DELTA CENTER.

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
200	RECEPTION
200A	HALL
200B	FSL OPEN OFFICE
200C	RES LIFE OPEN OFFICE
200D	HALL
200E	HALL
200F	HALL
200G	HALL
200H	PEDESTRIAN WALKWAY
201	RES LIFE OFFICE
202	RES LIFE OFFICE
203	RES LIFE OFFICE
205	RES LIFE OFFICE
207	RES LIFE OFFICE
209	RES LIFE OFFICE
211	RES LIFE OFFICE
213	RES LIFE OFFICE
215	WAITING
216	RES LIFE OFFICE
217	RESTROOM
218	RESTROOM
219	FSL OFFICE
220	STORAGE
221	FSL OFFICE
223	FSL OFFICE
225	FSL OFFICE
226	IDF
227	TEAM ROOM
228	COPY
229	FSL SHARED OFFICE
231	FSL OFFICE
A300M	HALL
A350A	CHAIR AND TABLE STORAGE
A353	GREEN RM
A353A	TOILET
ST-A-2	STAIR-2
ST-B-3	STAIR-3

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

SECOND FLOOR - HVAC PLAN

SCALE: 1/8" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SECOND FLOOR - HVAC PLAN

SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: STATE OF KENTUCKY — CHRISTOPHER C. KEATH — 15368 — LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

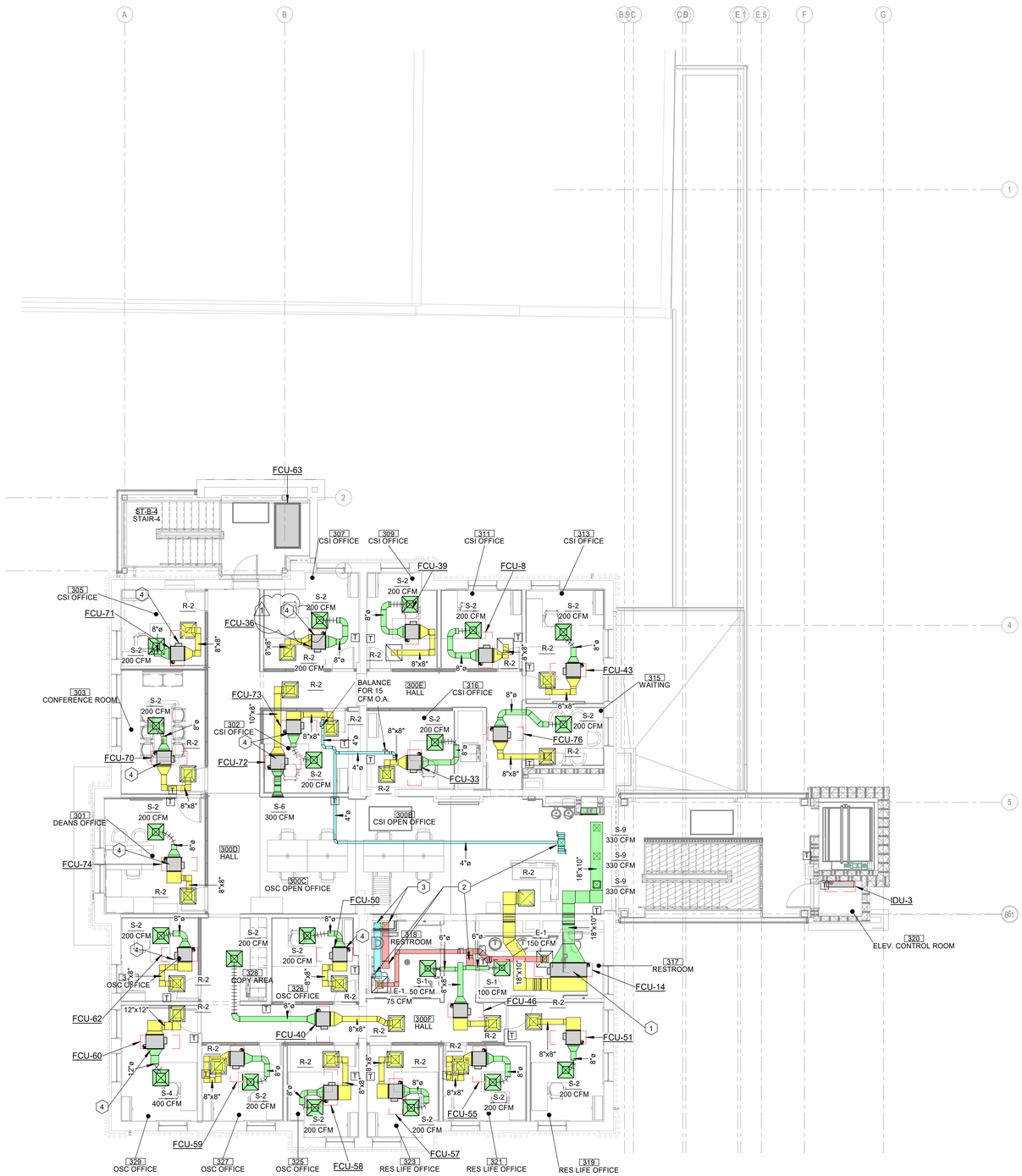
JOB. NO.: 11396-00

DWG. NO.: H102

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 11:59:24 AM

CODED NOTES:

1. NEW FAN COIL UNIT ABOVE CEILING, WITH FILTER RETURN GRILL TYPICAL.
2. SEE ATTIC PLAN FOR CONTINUATION.
3. EXHAUST DUCT AND OUTSIDE AIR DUCT DOWN THRU THIRD FLOOR CHASE TO FLOOR BELOW. PROVIDE FIRE DAMPER AT FIRE RATED WALL, CEILING, AND FLOOR AS REQUIRED.
4. SUPPORT UNIT, DUCT AND PIPING FROM UNISTRUT THAT RUNS FROM WALL TO WALL. STRUT SHALL BE INSTALLED BELOW UNIT AND ISOLATORS INSTALLED BETWEEN UNIT AND STRUT. NO VERTICAL HANGERS SHALL BE USED IN THIS ROOM.



ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
300	RECEPTION
300A	HALL
300B	CSI OPEN OFFICE
300C	OSC OPEN OFFICE
300D	HALL
300E	HALL
300F	HALL
300G	HALL
301	DEANS OFFICE
302	CSI OFFICE
303	CONFERENCE ROOM
305	CSI OFFICE
307	CSI OFFICE
309	CSI OFFICE
311	CSI OFFICE
313	CSI OFFICE
314	COPY
315	WAITING
316	CSI OFFICE
317	RESTROOM
318	RESTROOM
319	RES LIFE OFFICE
320	ELEV. CONTROL ROOM
321	RES LIFE OFFICE
323	RES LIFE OFFICE
325	OSC OFFICE
326	OSC OFFICE
327	OSC OFFICE
328	COPY AREA
329	OSC OFFICE
331	OSC OFFICE

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

THIRD FLOOR - HVAC PLAN
SCALE: 1/8" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: THIRD FLOOR - HVAC PLAN

SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

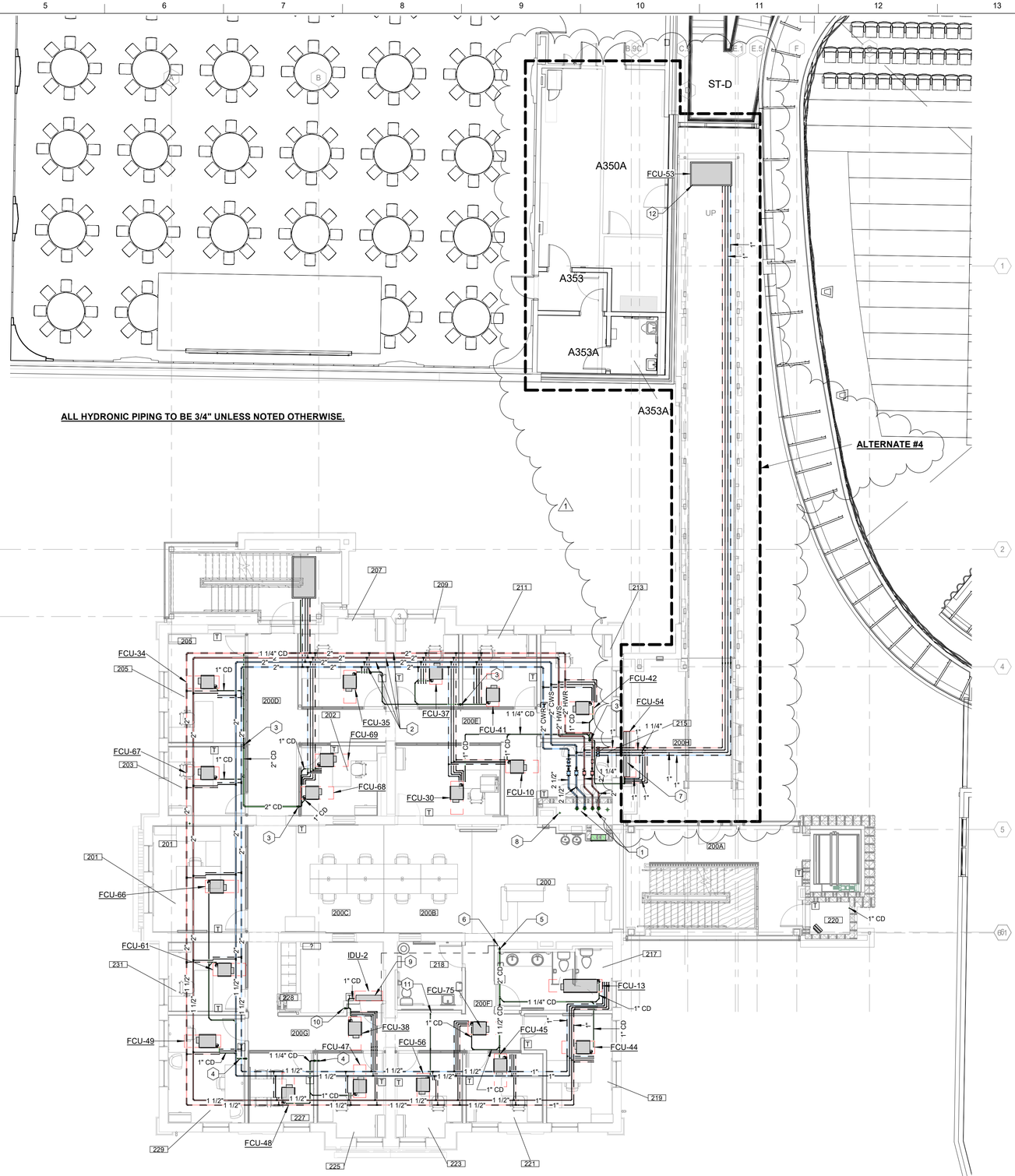
STATE OF KENTUCKY
CHRISTOPHER C KEATH
15368
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

JOB. NO.: 11396-00

DWG. NO.: H103

BIM 360://11396-00 UK Frazee Hall/20312 R21 UK Frazee Hall MEP.rvt
7/28/2021 11:59:36 AM



SECOND FLOOR - HYDRONIC PLAN

SCALE: 1/8" = 1'-0"

CODED NOTES:

1. HYDRONIC PIPING RUN UP AND DOWN IN CHASE.
2. HYDRONIC PIPING RUN ABOVE CEILING.
3. 2" CD PIPING RUN UP AND DOWN IN WALL.
4. CD PIPING DOWN FROM FLOOR ABOVE AND OFFSET (2") PIPING DOWN IN WALL TO FLOOR BELOW.
5. 2" CD PIPING DOWN FROM ABOVE CEILING AND DOWN IN CHASE TO FLOOR BELOW, COORDINATE WITH PLUMBING SYSTEM FOR LOCATION.
6. REFRIGERANT PIPING UP FROM GROUND FLOOR BELOW TO IDF ROOM IDU-2.
7. PROVIDE CONDENSATE PUMP IN VERTICAL FCU-54, CD PIPING UP TO ABOVE CEILING AND CONNECT TO 2" CD PIPING IN WALL. COORDINATE WITH ALL OTHER SYSTEM FOR ROUTING.
8. 2" CD PIPING RUN UP AND DOWN FROM ATTICE SPACE TO GROUND FLOOR MECHANICAL ROOM.
9. PROVIDE CONDENSATE PUMP WITH IDU-2.
10. 2" OFFSET IN WALL TO FLOOR BELOW.
11. DROP 1" CD LINE DOWN IN WALL AND TIE INTO LAV DRAIN AHEAD OF TRAP. INSLUATE TRAP AND DRAIN LINE IN WALL.
12. PIPE 1" CD OVER TO HEAD OF TRAP ON THE LAV IN A353A1. INSULATE TRAP AND DRAIN PIPING.

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
200	RECEPTION
200A	HALL
200B	FSL OPEN OFFICE
200C	RES LIFE OPEN OFFICE
200D	HALL
200E	HALL
200F	HALL
200G	HALL
200H	PEDESTRIAN WALKWAY
201	RES LIFE OFFICE
202	RES LIFE OFFICE
203	RES LIFE OFFICE
205	RES LIFE OFFICE
207	RES LIFE OFFICE
209	RES LIFE OFFICE
211	RES LIFE OFFICE
213	RES LIFE OFFICE
215	WAITING
216	RES LIFE OFFICE
217	RESTROOM
218	RESTROOM
219	FSL OFFICE
220	STORAGE
221	FSL OFFICE
223	FSL OFFICE
225	FSL OFFICE
226	IDF
227	TEAM ROOM
228	COPY
229	FSL SHARED OFFICE
231	FSL OFFICE
A300M	HALL
A350A	CHAIR AND TABLE STORAGE
A353	GREEN RM
A353A	TOILET
ST-A-2	STAIR-2
ST-B-3	STAIR-3

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SECOND FLOOR - HYDRONC PLAN
SCALE (U.N.O.)

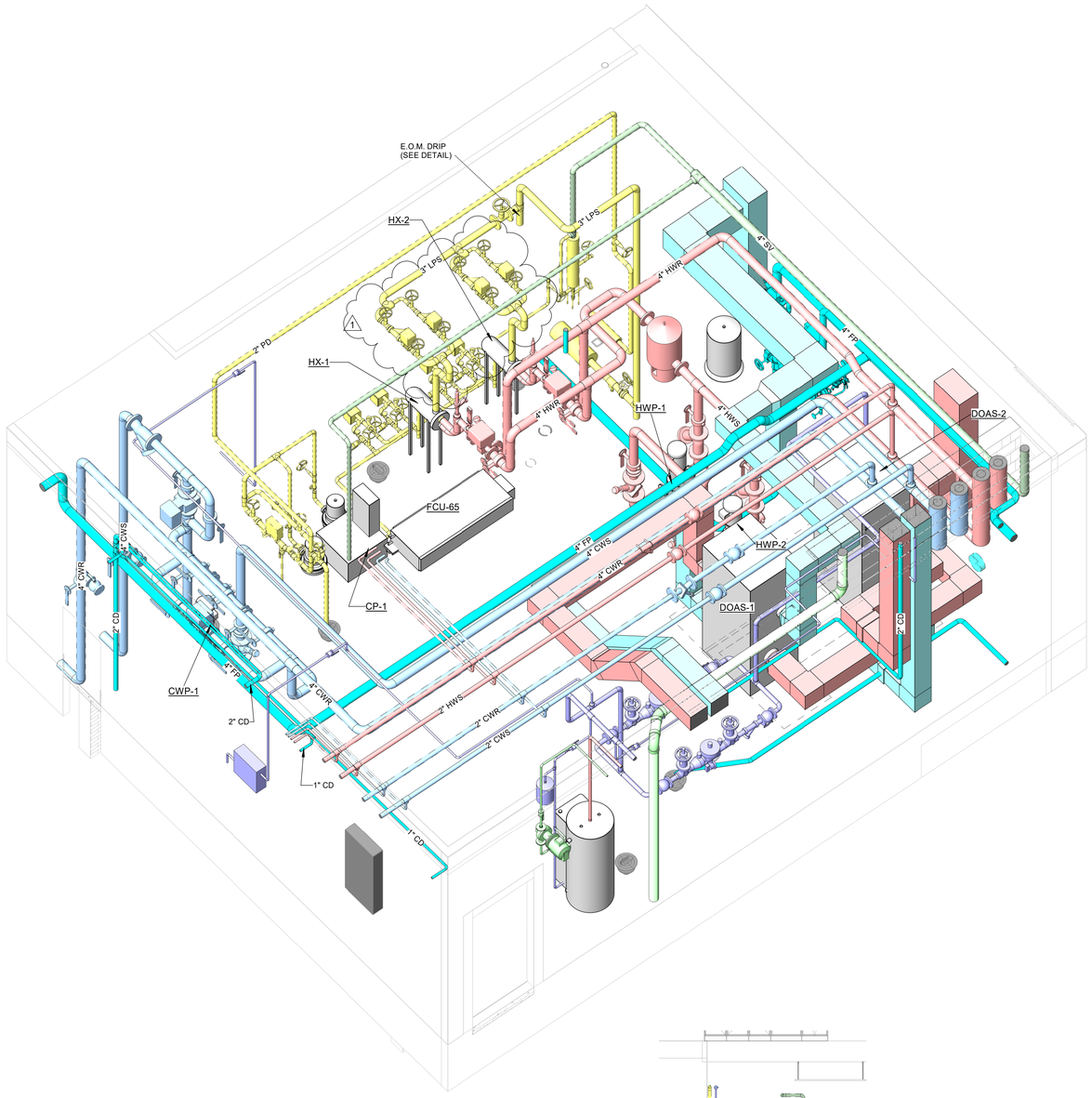
JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

SEAL: STATE OF KENTUCKY · CHRISTOPHER C KEATH · 19368 · LICENSED PROFESSIONAL ENGINEER

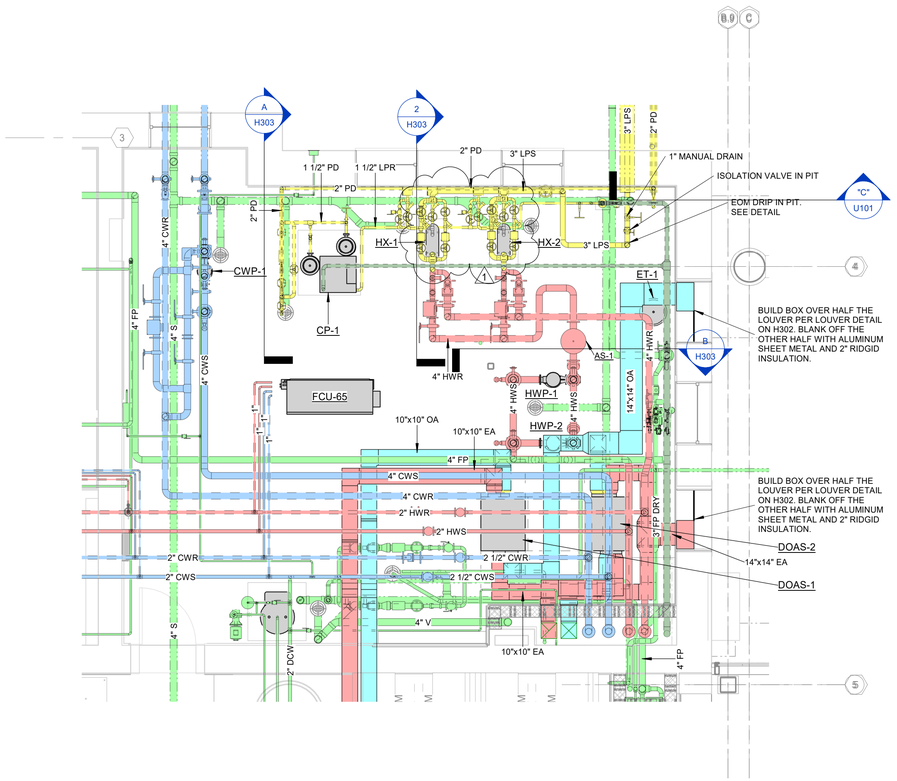
ISSUE DATE: July 2, 2021
JOB. NO.: 11396-00
DWG. NO.: H202

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 11:59:50 AM



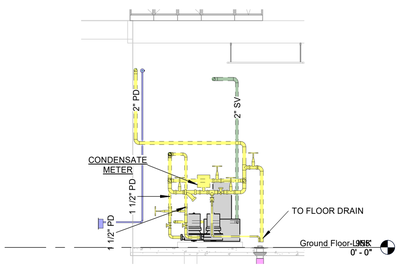
3D - MECHANICAL ROOM

SCALE:



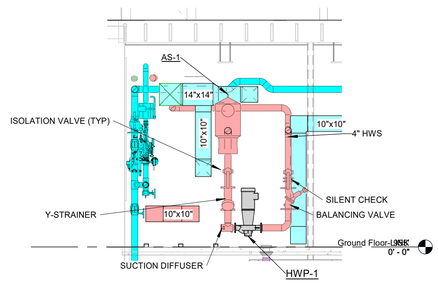
ENLARGED MECHANICAL ROOM

SCALE: 1/4" = 1'-0"



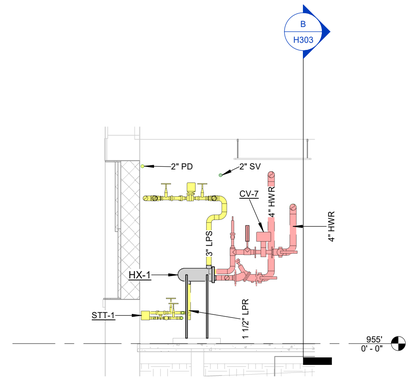
Section A

SCALE: 1/4" = 1'-0"



Section B

SCALE: 1/4" = 1'-0"



Section E

SCALE: 1/4" = 1'-0"

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

KEY PLAN

PROJECT NORTH

SEAL

STATE OF KENTUCKY
CHRISTOPHER C. KEATH
15283
LICENSED PROFESSIONAL ENGINEER

LORD AECK SARGENT
A KATERRA COMPANY

LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive Lexington, KY 40517 | 859-271-3246

SHEET TITLE: ENLARGED PLANS

SCALE (U.N.O.)

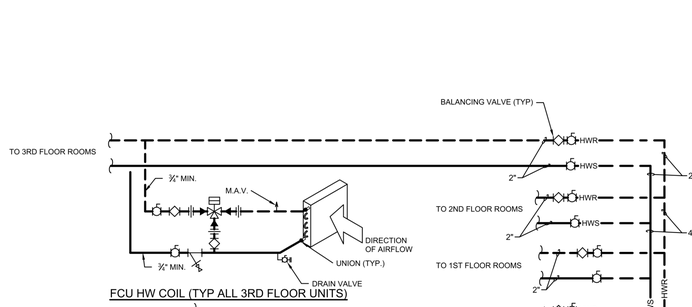
JOB NAME: University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

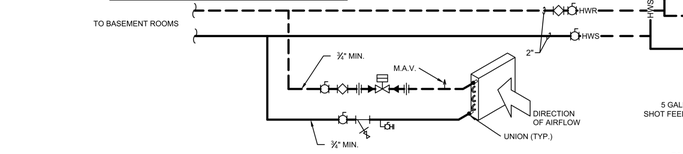
ISSUE DATE: July 2, 2021

JOB. NO.: 11396-00

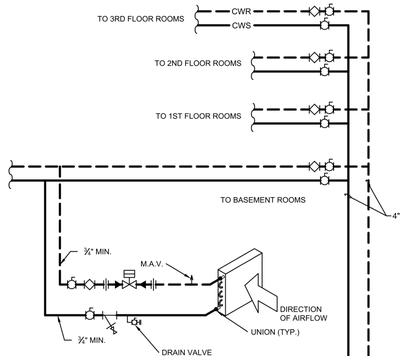
DWG. NO.: H303



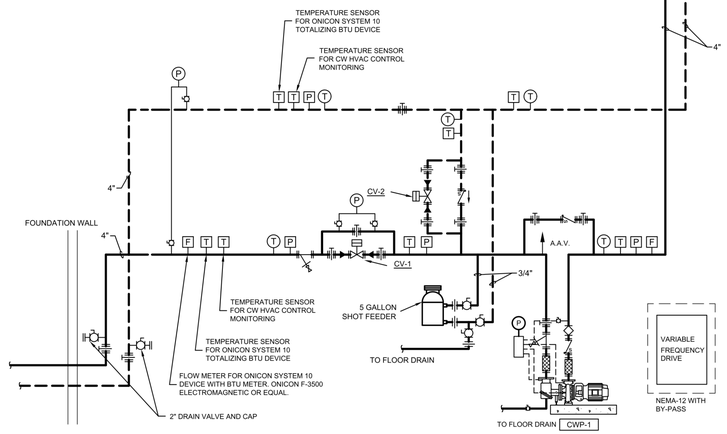
FCU HW COIL (TYP ALL 3RD FLOOR UNITS)

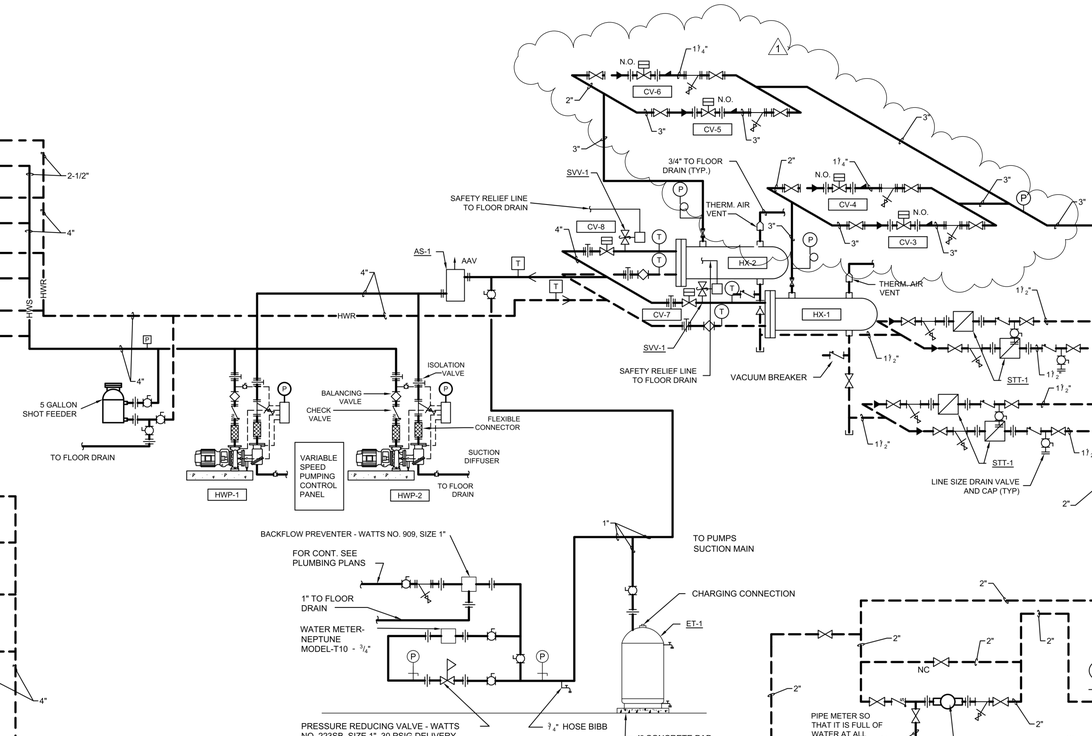


FCU HW COIL (TYP)



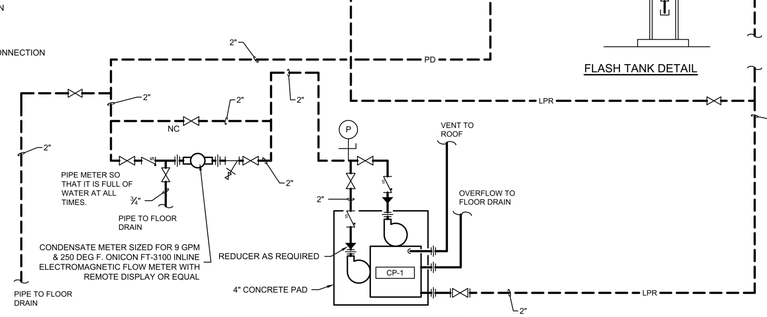
FCU CW COIL (TYP)





FILL SYSTEM PIPING

FLASH TANK DETAIL



CONDENSATE PUMP PIPING

FLOW DIAGRAM

NO SCALE

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive Lexington, KY 40517 | 859-271-3246

SHEET TITLE: HVAC FLOW DIAGRAM
SCALE: (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

SEAL: STATE OF KENTUCKY — CHRISTOPHER C KEATH 15328 — LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021
JOB. NO.: 11396-00
DWG. NO.: H400

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/30/2021 9:45:22 AM

CONTROL SYSTEM MATRIX

	ELECTRICAL CONTRACTOR	MECHANICAL CONTRACTOR	CONTROLS CONTRACTOR	UK UEM	IRRIGRATION CONTRACTOR	COMMISSIONER
INSTALL COMMUNICATION CABLE	X					
INSTALL CONTROL PANEL			X			
GRAPHICS				X		
CONTROL WIRE AND CONTROL POWER WIRING			X			
INSTALL MECHANICAL EQUIPMENT		X				
PROGRAM CONTROLS			X			
INSTALL FAN COIL CONTROLS			X			
INSTALL PRESSURE, TEMPERATURE SENSORS		X				
PROVIDE PRESSURE, TEMPERATURE SENSORS			X			
IRRIGATION SYSTEM BACNET INTEGRATOR					X	
PROGRAM IRRIGATION SYSTEM					X	
PROVIDE AND INSTALL VFDS		X				
COMMISSIONING	X	X	X	X	X	X
ELECTRICAL METER, INTERFACE, INSTALL AND PROGRAMMING			X			
CW METER, INTERFACE, INSTALL AND PROGRAMMING			X			
CONDENSATE METER, INTERFACE, INSTALL AND PROGRAMMING			X			
DOM. WATER METER, INTERFACE, INSTALL AND PROGRAMMING			X			
METER INTEGRATION			X			
LIGHTING CONTROL AND INTERFACE	X					
LIGHTING INTEGRATION	X					

1

DEDICATED OUTSIDE AIR UNITS:

INTERFACE TO UNITS BACNET/MSTP INTERFACE, SEE POINTS BELOW AVAILABLE FOR INTERFACE.

UNIT SHALL BE ENABLED THROUGH AN OCCUPIED/UNOCCUPIED SCHEDULE. DURING OCCUPIED UNIT SHALL BE SET TO PROVIDE 325 CFM (ADJ.) OUTSIDE AIR AND 225 CFM (ADJ.) EXHAUST AIR. DURING UNOCCUPIED TIMES UNIT SHALL BE SET TO PROVIDE 200 CFM (ADJ.) OUTSIDE AIR AND 100 CFM (ADJ.) EXHAUST AIR. IF OUTSIDE AIR TEMPERATURE DROPS BELOW 0 DEG. F. THE UNIT SHALL BE CYCLED OFF.

UNIT SHALL OPERATE TO ON INTERNAL CONTROLLER TO PROVIDE NEUTRAL AIR AT 72 DEG. F. (ADJ.) TO THE OCCUPIED SPACES.

Binary Values						
Index	**Type**	**Variable Name**	**Description**	**Access**	**Inactive**	**Active**
1	BV	UnitOn	Turn unit off/on by BMS	R/W	0	1
2	BV	Occupied	Occupied Mode off/on by BMS - Optional	R/W	0	1
10	BV	SupplyFan_On	Status - Supply fan on by Modbus	R	0	1
11	BV	ExhaustFan_On	Status - Exhaust fan on by Modbus	R	0	1
12	BV	Compressor_On	Status - Compressor relay output energized	R	0	1
13	BV	ReversingValve_On	Status - Reversing valve relay output energized	R	0	1
14	BV	EnthalpyWheel_On	Status - Enthalpy wheel relay output energized	R	0	1
30	BV	CoolMode	Unit is in dehumidification Mode	R	0	1
31	BV	HeatMode	Unit is in Heating Mode	R	0	1
32	BV	EconMode	Unit is in Economizer Mode	R	0	1
33	BV	DefrostMode	Unit is in Defrost Mode	R	0	1
60	BV	Alarm_Global	Active when any alarm is active	R	0	1
61	BV	Alarm_Airflow	Alarm - Loss of Airflow or ECM Communications	R	0	1
62	BV	Alarm_DrainPan	Alarm - Drain Pan Overflow	R	0	1
63	BV	Alarm_EmergencyShutdown	Alarm - Emergency Stop Activated	R	0	1
64	BV	Alarm_DirtyAirFilter	Alarm - Dirty Air Filters	R	0	1
65	BV	Alarm_CompressorHighPressure	Alarm - Compressor High Pressure	R	0	1
66	BV	Alarm_CompressorLowPressure	Alarm - Compressor Low Pressure	R	0	1
67	BV	Alarm_ControlTempSensorFailure	Alarm - Control Temperature Sensor Failure	R	0	1
68	BV	Alarm_SupplyDewpointSensorFailure	Alarm - Supply Dewpoint Temperature Sensor Failure	R	0	1
69	BV	Alarm_SupplyDryBulbSensorFailure	Alarm - Supply Dry Bulb Temperature Sensor Failure	R	0	1
80	BV	Alarm_Reset	Reset alarms by BMS	R/W	0	1
Analog Inputs						
Index	**Type**	**Variable Name**	**Description**	**Access**	**Min**	**Max**
1	AI	ControlTemperature	Control Temperature; Air leaving enthalpy wheel	R	-58 F	221 F
2	AI	SupplyDewpointTemperature	Supply Air Dewpoint Temperature; Air leaving dx coil	R	-58 F	221 F
3	AI	SupplyDryBulbTemperature	Supply Air Dry Bulb Temperature; Air leaving the unit	R	-58 F	221 F
4	AI	SupplyDifferentialPressure	Pressure drop across supply air fan venturi	R	0.0 iwc	1.00 iwc
5	AI	ExhaustDifferentialPressure	Pressure drop across exhaust air fan venturi	R	0.0 iwc	1.00 iwc
Analog Values						
Index	**Type**	**Variable Name**	**Description**	**Access**	**Min**	**Max**
50	AV	OCC_CoolingSetPoint	Occupied dehumidification set point	R/W	50.0 F	99.0 F
51	AV	OCC_HeatingSetPoint	Occupied Heating set point	R/W	0.0 F	90.0 F
52	AV	OCC_SA_CFM_SetPoint	Occupied Supply Air CFM set point	R/W	100 cfm	500 cfm
53	AV	OCC_EA_CFM_SetPoint	Occupied Exhaust Air CFM setpoint	R/W	100 cfm	500 cfm
54	AV	UNOCC_CoolingSetPoint	Unoccupied dehumidification set point	R/W	50.0 F	99.0 F
55	AV	UNOCC_HeatingSetPoint	Unoccupied Heating set point	R/W	0.0 F	90.0 F
56	AV	UNOCC_SA_CFM_SetPoint	Unoccupied Supply Air CFM set point	R/W	100 cfm	500 cfm
57	AV	UNOCC_EA_CFM_SetPoint	Unoccupied Exhaust Air CFM setpoint	R/W	100 cfm	500 cfm
Analog Values						
Index	**Type**	**Variable Name**	**Description**	**Access**	**Min**	**Max**
10	IV	RunHours_Compressor	Compressor Lifetime Run Hours	R	0h	200000h
11	IV	RunHours_EnthalpyWheel	Enthalpy Wheel Lifetime Run Hours	R	0h	200000h
12	IV	RunHours_SupplyBlower	Supply Blower Lifetime Run Hours	R	0h	200000h
13	IV	RunHours_ExhaustBlower	Exhaust Blower Lifetime Run Hours	R	0h	200000h

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

DUCTLESS MINI-SPLIT UNIT

DDC SHALL MONITOR AND MAKE SETPOINT CHANGES TO SYSTEM THRU SYSTEM MANUFACTURER'S GATEWAY.

COORDINATE WITH SPLIT SYSTEM MANUFACTURER TO PROVIDE THE FOLLOWING, AT A MINIMUM.

- SYSTEM SHALL CONTROL INDOOR UNIT TO MAINTAIN ROOM SETPOINT.
- DDC SYSTEM SHALL HAVE CAPABILITY OF OVERRIDING THERMOSTAT SETPOINTS. IN ADDITION, OWNER WILL HAVE CAPABILITY OF SETTING TEMEPRATURE SETPOINT RANGES THRU DDC SYSTEM.
- MONITOR AND PROVIDE NOTIFICASTION FOR ALL ALARMS.

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Zone Temp	x								x		x
Zone Setpoint Adjust	x										x
Zone Override			x						x		x
Fan Status			x						x		x
Fan Start/Stop				x					x		x
Reversing Valve				x					x		x
Compressor				x					x		x
Heating				x					x		x
Emergency Shutdown						x			x	x	x
Schedule								x			x
Heating Setpoint									x		x
Cooling Setpoint									x		x
High Zone Temp										x	
Low Zone Temp										x	
Compressor Runtime Exceeded										x	
Filter Change Required										x	
Fan Failure										x	
Discharge Air Temperature	x								x	x	x

DOMESTIC HOT WATER HEATERS

HEATERS SHALL OPERATE FROM THEIR PACKAGED CONTROLS. MONITOR DOMESTIC HOT WATER TEMPERATURE. PROVIDE REMOTE TEMPERATURE AND HIGH TEMPERATURE ALARM INDICATION AND REMOTE TEMPERATURE ADJUSTMENT.

DOMESTIC WATER RECIRCULATING PUMPS SHALL RUN CONTINUOUSLY DURING OCCUPIED AND OFF DURING UNOCCUPIED. IF MULTIPLE PUMPS, PROVIDE LEAD/LAG CYCLE FOR EQUAL RUNTIME. PROVIDE STATUS/ALARM INFORMATION AS OUTLINED IN THE I/O SUMMARY.

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Building Supply Temp	x								x	x	x
Water Heater Stop/Start						x		x	x		x
Heater 1 Supply Temp	x								x	x	x
Heater 2 Supply Temp	x								x	x	x
Recirc Pump 1 Status			x						x	x	x
Recirc Pump 2 Status			x						x	x	x
Return Water Temperature	x								x		x
Heater 1 Setpoint					x				x		x
Heater 2 Setpoint					x				x		x
Recirc Pump 1						x			x		x
Recirc Pump 2						x			x		x

SUMP PUMPS/DUPLEX STORM AND SEWAGE EJECTORS (INCLUDING IN EXTERIOR VAULTS)

MONITOR ALL SUMP PUMPS, STORM EJECTORS, AND SEWAGE EJECTORS. PROVIDE ALARM FOR HIGH WATER LEVEL.

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
High Level			x						x	x	x
Pump Status			x						x	x	x
Power to Pumps			x						x	x	x

EXTERIOR VAULT EXHAUST FAN

MONITOR VAULT TEMPERATURE AND STATUS OF THE EXTERIOR VAULT EXHAUST FANS.

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Temperature	x								x	x	x
Temperature Setpoint		x							x		x
Fan Status			x						x	x	x
Fan Command				x					x		x
Power to Fan			x						x	x	x

SEQUENCE OF OPERATION - MISCELLANEOUS ITEMS

1.1 MULTIPLE COMPONENTS IN SYSTEMS

A. WHERE MORE THAN ONE COMPONENT IS SHOWN IN A SYSTEM (SUCH AS FANS, VALVES, DAMPERS, ETC.) COMPONENTS SHALL OPERATE TOGETHER IN PARALLEL SEQUENCE.

1.2 RANDOM START SEQUENCE

A. WHEN EMERGENCY POWER OPERATION BEGINS, PROVIDE RANDOM START SEQUENCE FOR FANS AND PUMPS CONNECTED TO THE EMERGENCY POWER SYSTEM SO THAT ALL MOTORS DO NOT START AT ONCE (TO REDUCE START-UP LOAD ON EMERGENCY GENERATOR). START MOTORS REQUIRED BY THE SEQUENCE ONE AT A TIME, WITH A 20 SECOND TIME DELAY (ADJUSTABLE) BETWEEN EACH START.

1.3 SAFETY CONTROLS

A. CONNECT ALL SAFETY CONTROLS TO THE SYSTEM SO THAT IF ANY SAFETY CONTROL ACTIVATES, IT WILL PERFORM THE SAFETY FUNCTION AT ALL TIMES THAT ITS SYSTEM IS IN HAND (MANUAL) OR AUTOMATIC POSITION. MANUAL OPERATION SHALL NOT BYPASS ANY FIRE, SMOKE, LOW OR HIGH LIMIT CONTROLS OR SEQUENCES THAT REQUIRE DAMPERS TO BE OPENED BEFORE FANS START, ETC.

1.4 EIP

A. CAMPUS FREEZE PROTECTION: WHEN ISSUED THE DOAS AND FAN COILS SHALL LOCK INTO STANDBY/OCCUPIED MODE.

B. CAMPUS HOT WATER: WHEN ISSUED LOCK ON OR OFF THE HEATING HOT WATER SYSTEM AS COMMANDED BY THE EIP.

C. CAMPUS CHILLED WATER: WHEN ISSUED LOCK ON OR OFF THE CHILLED WATER SYSTEM AS COMMANDED BY THE EIP.

1.5 CONDESATE METER:

A. PROVIDE CONDENSATE METER THAT IS RATED FOR 300°F FOR 2" AND SMALLER. IS REGISTERED IN GALLONS. THE METER MUST ACCEPT PULSERS TO PERMIT MONITORING BY THE CAMPUS FMS. MUST HAVE A LOCAL READOUT IN A NEMA 4 ENCLOSURE AND INTERFACE WITH AN ONICON OR EQUAL TOTALIZING DISPLAY MODULE.

1.6 CHILLED WATER BTU METER:

A. PRIMARY CHILLED WATER METER SHALL REPORT BACK TO THE CAMPUS FMS. MUST HAVE A LOCAL READOUT IN A NEMA 4 ENCLOSURE AND INTERFACE WITH AN ONICON OR EQUAL TOTALIZING DISPLAY MODULE. FLOW METER SHALL BE ELECTROMAGNETIC INSERTION STYLE.

1.7 DOMESTIC WATER METER:

A. DOMESTIC WATER METER IS REGISTERED IN GALLONS. THE METER MUST ACCEPT PULSERS TO PERMIT MONITORING BY THE CAMPUS FMS. MUST HAVE A LOCAL READOUT IN A NEMA 4 ENCLOSURE AND INTERFACE WITH AN ONICON OR EQUAL TOTALIZING DISPLAY MODULE.

1.8 BLUE LIGHT:

A. PROVIDE 10 COLOR SCENE CAMPUS STANDARD LIGHTING CONTROL THROUGH THE DELTA ROOM OF THE "BLUE LIGHT" IN THE CONNECTOR.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:
1 Addendum #1 7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: INSTRUMENTATION AND CONTROLS
SCALE (U.N.O.)

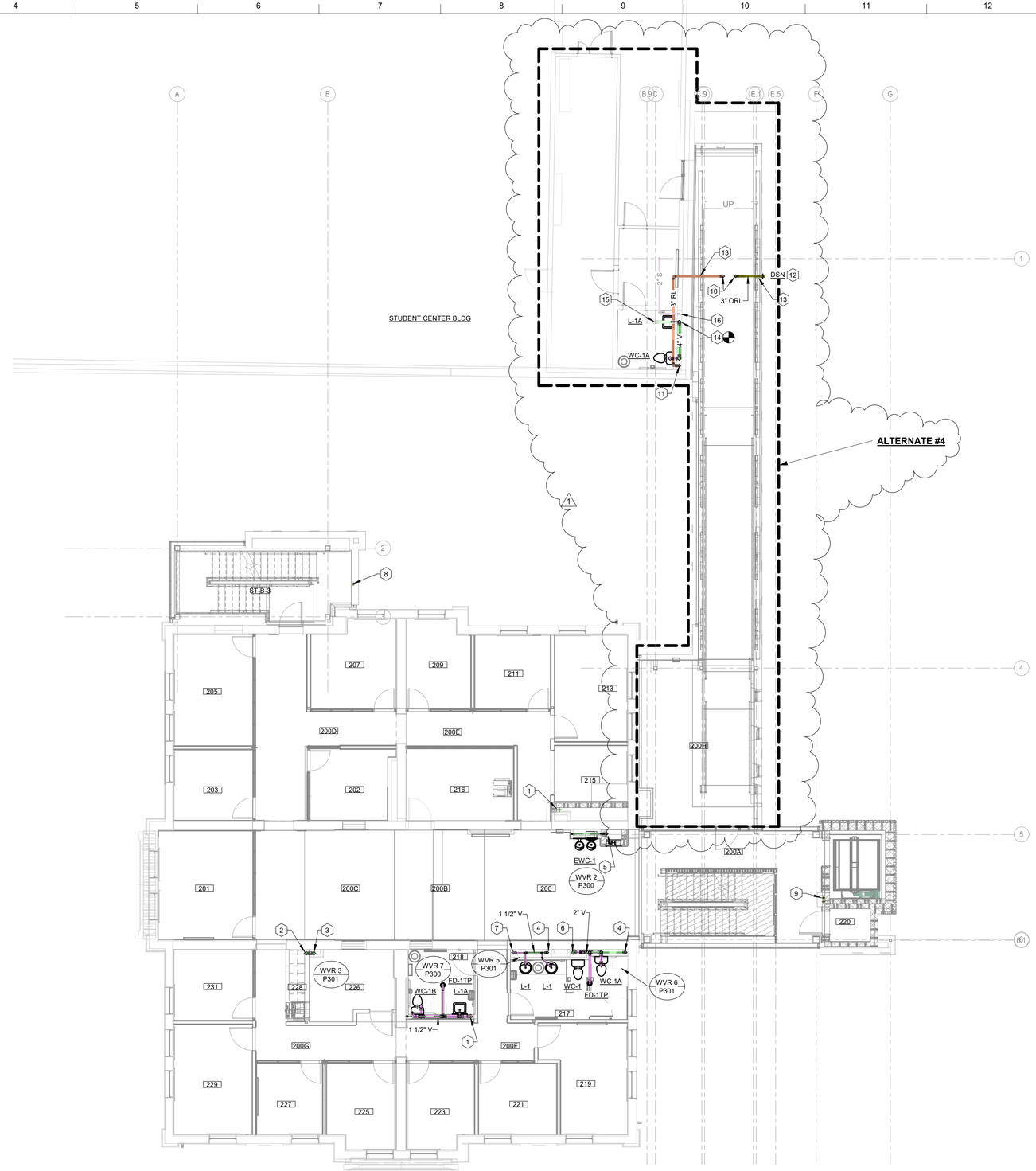
JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

SEAL
STATE OF KENTUCKY
CHRISTOPHER C. KEATH
15908
LICENSED

ISSUE DATE: July 2, 2021
JOB. NO. 11396-00
DWG. NO. IC503

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 12:00:00 PM



CODED NOTES:

1. 4" V. UP AND DOWN.
2. 4" V. FROM BELOW.
3. 4" V. UP.
4. 3" V. UP AND DOWN.
5. 2" S. UP AND DOWN.
6. 4" S. UP AND DOWN.
7. 4" S. DOWN AND 4" V. UP.
8. 3" ROOF LEADER UP AND DOWN.
9. 3" ROOF LEADER AND 3" OVERFLOW ROOF LEADER UP AND DOWN.
10. 3" ROOF LEADER AND 3" OVERFLOR ROOF LEADER FROM ROOF DRAIN ABOVE.
11. 3" ROOF LEADER DOWN.
12. DSN - DOWNSPOUT NOZZLE. ZURN MODEL #Z-199 OR EQUAL, STAINLESS STEEL FINISH, INTEGRAL ANCHORING FLANGE. PROVIDE WITH STAINLESS STEEL SCREEN. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
13. ROUTE PIPING BELOW GIRDER THRU STRUCTURAL FRAMING. FIELD COORDINATE.
14. CONNECT TO EXISTING 4" V. IN VERTICAL. FIELD COORDINATE PRIOR TO CONSTRUCTION .
15. EXISTING 4" V. UP TO REMAIN.
16. EXISTING 2" S. DOWN TO REMAIN.

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
200	RECEPTION
200A	HALL
200B	FSL OPEN OFFICE
200C	RES LIFE OPEN OFFICE
200D	HALL
200E	HALL
200F	HALL
200G	HALL
200H	PEDESTRIAN WALKWAY
201	RES LIFE OFFICE
202	RES LIFE OFFICE
203	RES LIFE OFFICE
205	RES LIFE OFFICE
207	RES LIFE OFFICE
209	RES LIFE OFFICE
211	RES LIFE OFFICE
213	RES LIFE OFFICE
215	WAITING
216	RES LIFE OFFICE
217	RESTROOM
218	RESTROOM
219	FSL OFFICE
220	STORAGE
221	FSL OFFICE
223	FSL OFFICE
225	FSL OFFICE
226	IDF
227	TEAM ROOM
228	COPY
229	FSL SHARED OFFICE
231	FSL OFFICE
A300M	HALL
A350A	CHAIR AND TABLE STORAGE
A353	GREEN RM
A353A	TOILET
ST-A-2	STAIR-2
ST-B-3	STAIR-3

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

SECOND FLOOR - SANITARY WASTE & VENT PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN

PROJECT NORTH

SEAL

STATE OF KENTUCKY
CHRISTOPHER C KEATH
15908
LICENSED
PROFESSIONAL ENGINEER

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SECOND FLOOR - SANITARY WASTE & VENT PLAN

SCALE (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

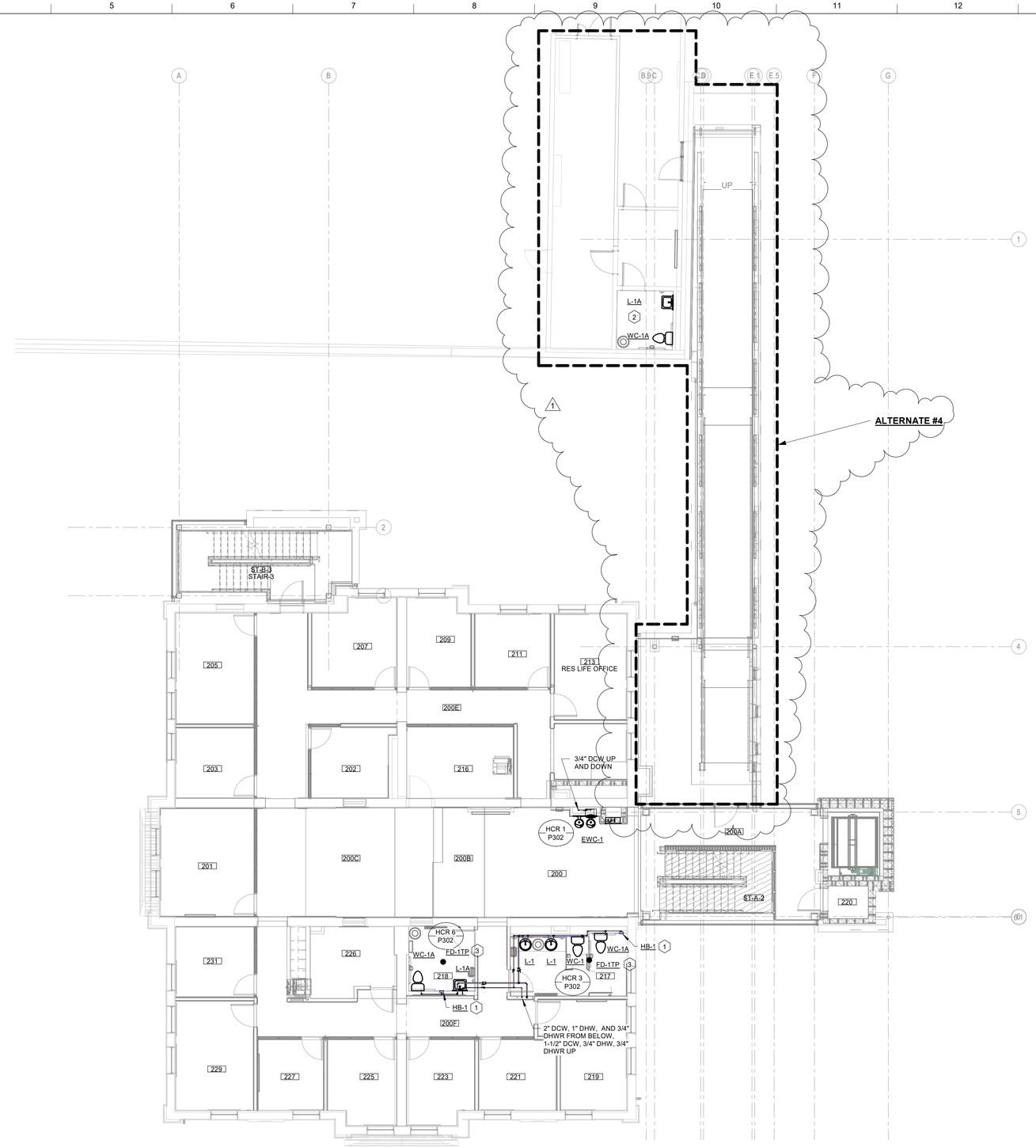
LOCATION: 406 Administration Drive Lexington, KY 40508

ISSUE DATE: July 2, 2021

JOB. NO. 11396-00

DWG. NO. P102

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 12:00:13 PM



CODED NOTES:

1 HOSE BIBB (HB-1): ZURN #Z1350-EZ, NARROW WALL HYDRANT WITH BRONZE BODY, 3/4" INLET, INTEGRAL ASSE 1011 VACUUM BREAKER, KEY OPERATED CONTROL VALVE, SCREW DRIVER VALVE STOP, 3/4" THREADED HOSE CONNECTION, STAINLESS STEEL WALL BOX WITH HINGED COVER AND MOUNTING BRACKETS.

2 EXTEND DHW AND DCW SUPPLIES TO NEW FIXTURES AS REQUIRED.

3 ROVIDE 1/2" SOFT COPPER TRAP PIRMER LINE FROM FLUSH VALVE TRAP PRIMER CONNECTION TO FLOOR DRAIN AS REQUIRED.

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
200	RECEPTION
200A	HALL
200B	FSL OPEN OFFICE
200C	RES LIFE OPEN OFFICE
200D	HALL
200E	HALL
200F	HALL
200G	HALL
200H	PEDESTRIAN WALKWAY
201	RES LIFE OFFICE
202	RES LIFE OFFICE
203	RES LIFE OFFICE
205	RES LIFE OFFICE
207	RES LIFE OFFICE
209	RES LIFE OFFICE
211	RES LIFE OFFICE
213	RES LIFE OFFICE
215	WAITING
216	RES LIFE OFFICE
217	RESTROOM
218	RESTROOM
219	FSL OFFICE
220	STORAGE
221	FSL OFFICE
223	FSL OFFICE
225	FSL OFFICE
226	IDF
227	TEAM ROOM
228	COPY
229	FSL SHARED OFFICE
231	FSL OFFICE
A300M	HALL
A350A	CHAIR AND TABLE STORAGE
A353	GREEN RM
A353A	TOILET
ST-A-2	STAIR-2
ST-B-3	STAIR-3

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

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

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SECOND FLOOR - DOMESTIC WATER PLAN

SCALE: (U.N.O.)

JOB NAME: University of Kentucky
2511 8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL

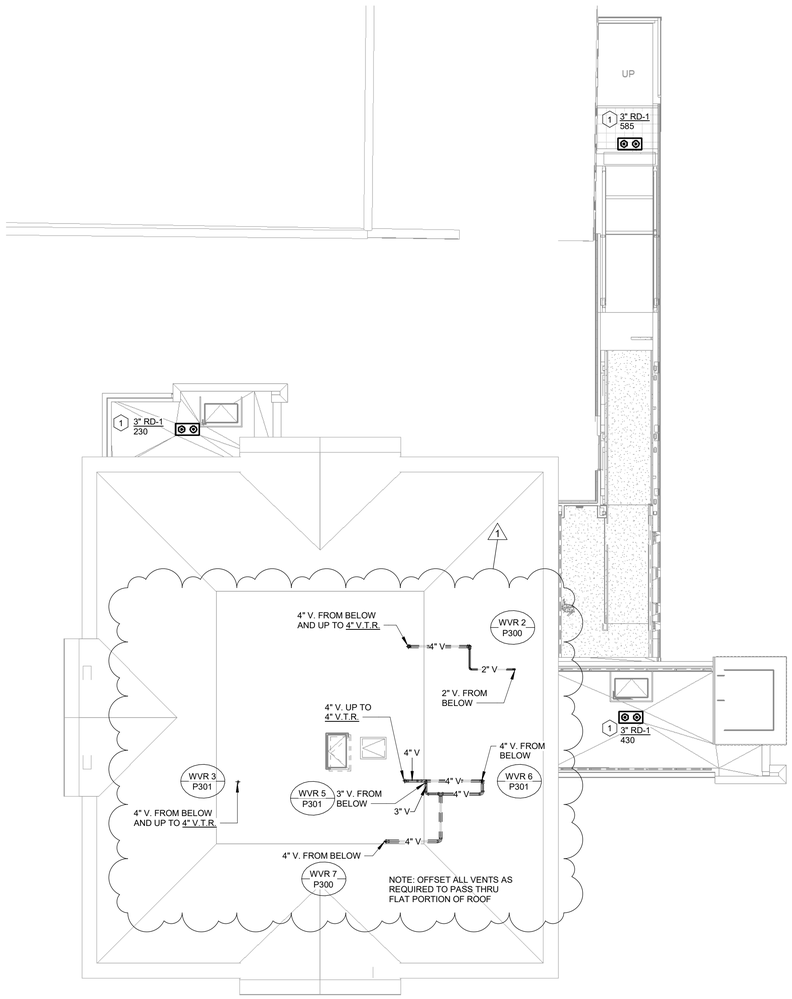
STATE OF KENTUCKY
CHRISTOPHER C. KEATH
15368
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

JOB. NO.: 11396-00

DWG. NO.: P202

BIM 360://11396-00 UK Frazee Hall/20312 R21 UK Frazee Hall MEP.rvt
7/28/2021 12:00:23 PM



PLUMBING ATTIC AND ROOF PLAN

SCALE: 3/32" = 1'-0"

CODED NOTES:

1 DUAL ROOF DRAIN (RD-1): WATTS RD-700-D, CAST IRON DUAL OUTLET ROOF DRAIN/OVERFLOW COMBINATION WITH FLASHING CLAMP, INTEGRAL GRAVEL STOP, 4" HIGH INTERNAL OVERLFOW STANDPIPE, SECURED DUCTILE IRON DOME, NO HUB OUTLETS, UNDERDECK CLAMP, AND SUMP RECEIVER. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL 1" THICK MINIMUM INSULATION PER SPECIFICATIONS AROUND DRAIN BODY AND IN ALL VOID SPACES AT ROOF DRAIN BODY AND SUMP (SEAL WITH VAPOR BARRIER).

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

FIXTURE SCHEDULE AND ROUGHING-IN REQUIREMENTS

FIXTURE NUMBER	FIXTURE	MFR.	MODEL NO.	FLUSH VALVE, FAUCET	ACCESSORIES	MOUNTING	WALL HUNG, FLOOR MOUNTED, COUNTERTOP	MOUNTING HEIGHT (SEE REMARKS)	HOT	COLD	WASTE (MIN.)	VENT (MIN.)	REMARKS
WC-1	WATER CLOSET	KOHLER	K-96053-B, WELLCOMME, VITREOUS CHINA, WHITE	SLOAN REGAL 111 SFSM -1.28 GPF, AUTOMATIC	SEAT STANDARD WHITE	STANDARD	FLOOR MOUNT	---	---	1"	4"	2"	
WC-1A	WATER CLOSET	KOHLER	K-96057-B, HIGHCLIFF, VITREOUS CHINA, WHITE	SLOAN REGAL 111 SFSM -1.28 GPF, AUTOMATIC	SEAT STANDARD WHITE	ADA	FLOOR MOUNT	---	---	1"	4"	2"	PROVIDE SLOAN VBF-72-A2 TRAP PRIMER OR EQUAL
WC-1B	WATER CLOSET	AMERICAN STANDARD	#3641.001, RIGHT WIDTH, VITREOUS CHINA, WHITE	SLOAN REGAL 111 SFSM -1.28 GPF, AUTOMATIC	"RIGHT WIDTH" SEAT, STANDARD WHITE	ADA	FLOOR MOUNT	---	---	1"	4"	2"	PROVIDE SLOAN VBF-72-A2 TRAP PRIMER OR EQUAL
U-1	URINAL	KOHLER	K-4904-ET, VITREOUS CHINA	SLOAN REGAL 186 SFSM -0.125 GPF, AUTOMATIC	---	ADA	WALL HUNG	---	---	---			SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
L-1	LAVATORY	KOHLER	K-2337-4, VITREOUS CHINA	SLOAN EBF-650 -0.5 GPF, AUTOMATIC	GRID STRAINER, P-TRAP, STOPS & SUPPLIES	SEE ARCH. DWGS	COUNTERTOP	----	1/2"	1/2"	1-1/4" P-TRAP	1-1/2"	
L-1A	LAVATORY	KOHLER	K-1997-4, VITREOUS CHINA	SLOAN EBF-650 -0.5 GPF, AUTOMATIC	GRID STRAINER, P-TRAP, STOPS & SUPPLIES	ADA	WALL HUNG	----	1/2"	1/2"	1-1/4" P-TRAP	1-1/2"	SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS. PROVIDE WHITE TRUEBRO LAV GUARDS
S-1	SINK	ELKAY	ELUHAD211555, STAINLESS STEEL	CHICAGO 786-E3, 2.2 GPM, WRIST BLADES, GOOSENECK SWING SPOUT	CUP STRAINER, P-TRAP, STOPS & SUPPLIES	SEE ARCH. DWGS	COUNTER UNDERMOUNT	---	1/2"	1/2"	1-1/2" P-TRAP	1-1/2"	
EWC-1	WATER COOLER & BOTTLE FILLER	ELKAY	LZWS-LRPBM28K, RECESSED	---	P-TRAP, SHUT-OFF VALVE, FRONT ACCESS PANEL	BI-LEVEL	WALL HUNG	---	---	1/2"	1-1/2"	1-1/2"	MOUNT ADA BUBBLER WITH SPOUT 36" FROM FLOOR, VANDAL RESISTANT, WATER FILTER
MB-1	MOP BASIN	STERN WILLIAMS	SB-902, 24"X24"X12"	T-10-VB SERVICE FAUCET	SS DOME & LINT STRAINER, SS CAPS	---	FLOOR MOUNTED	---	1/2"	1/2"	3"	1-1/2"	STAINLESS STEEL MOP HANGER, HOSE & WALL HOOK

FLOOR DRAIN SCHEDULE

TYPE	MANUFACTURER	MODEL NO.	BODY	TOP	REMARKS
FD-1	ZURN	ZN-415	CAST IRON (DURA-COATED)	NICKEL BRONZE	(1)
FD-2	ZURN	Z-550	CAST IRON (DURA-COATED)	CAST IRON (DURA-COATED)	(2) (3) (4)

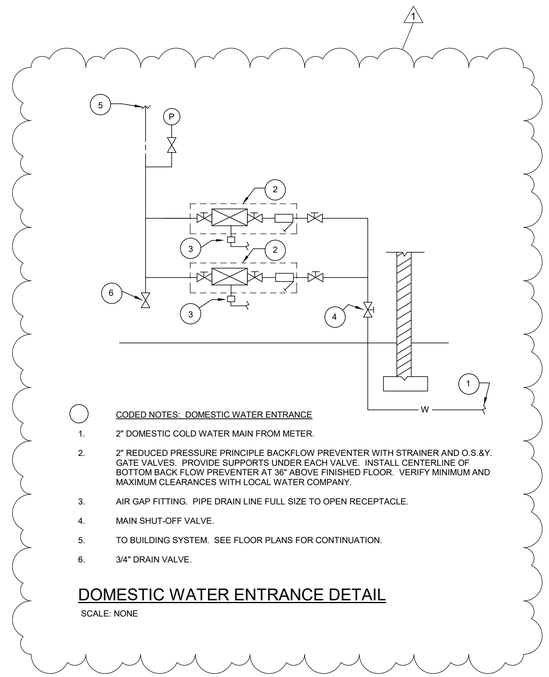
REMARKS:

(1) 6" DIAMETER STRAINER.

(2) 9" DIAMETER STRAINER.

(3) DRAINS INDICATED ON THE DRAWINGS WITH A PREFIX "F" SHALL BE PROVIDED WITH A Z-329-9 OVAL FUNNEL, 4" HIGH WITH NICKEL BRONZE FINISH FOR NICKEL BRONZE DRAINS AND DURA-COATED FOR CAST IRON DRAINS.

(4) FLOOR DRAINS INDICATED ON THE DRAWINGS WITH A SUFFIX "TP" SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION.

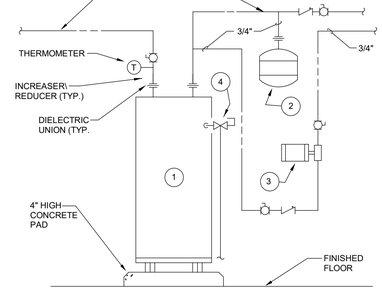


CODED NOTES: DOMESTIC WATER ENTRANCE

1. 2" DOMESTIC COLD WATER MAIN FROM METER.
2. 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH STRAINER AND O.S.&Y. GATE VALVES. PROVIDE SUPPORTS UNDER EACH VALVE. INSTALL CENTERLINE OF BOTTOM BACK FLOW PREVENTER AT 36" ABOVE FINISHED FLOOR. VERIFY MINIMUM AND MAXIMUM CLEARANCES WITH LOCAL WATER COMPANY.
3. AIR GAP FITTING. PIPE DRAIN LINE FULL SIZE TO OPEN RECEPTACLE.
4. MAIN SHUT-OFF VALVE.
5. TO BUILDING SYSTEM. SEE FLOOR PLANS FOR CONTINUATION.
6. 3/4" DRAIN VALVE.

DOMESTIC WATER ENTRANCE DETAIL

SCALE: NONE



CODED NOTES: WATER HEATER DETAIL

1. ELECTRIC WATER HEATER - A.O. SMITH MODEL NO. DRE - 52, GLASS LINED TANK, 50 GALLON STORAGE, 3 KW. EACH ELEMENT, 9 KW TOTAL, 208 VOLT, 3-PHASE. SET TO 110°F.
2. EXPANSION TANK - AMTROL AST EXTROL MODEL NO. AST-12, 4.7 GALLON TANK VOLUME, 2.4 GALLON ACCEPTANCE VOLUME, PRECHARGED AT 55 PSIG, ASME TANK.
3. DOMESTIC HOT WATER RECIRCULATING PUMP - B&G ALL BRONZE SERIES PR, 3/4" 10 GPM AT 11 FT. HEAD, 1750 RPM, 1/6 H.P.,115 VOLT, 1 PHASE.
4. TEMPERATUER-PRESSUER RELIEF VALVE - PIPE DISCHARGE LINE FULL SIZE DOWN TO STORAGE ROOM. SEE FLOOR PLAN, FOR CONTINUATION.

ELECTRIC WATER HEATER

SCALE: NONE

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: PLUMBING ATTIC & ROOF PLAN, SCHEDULES AND DETAILS

SCALE (U.N.O.): 3/32" = 1'-0"

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN

PROJECT NORTH

SEAL: STATE OF KENTUCKY, CHRISTOPHER C KEATH, 15308, LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

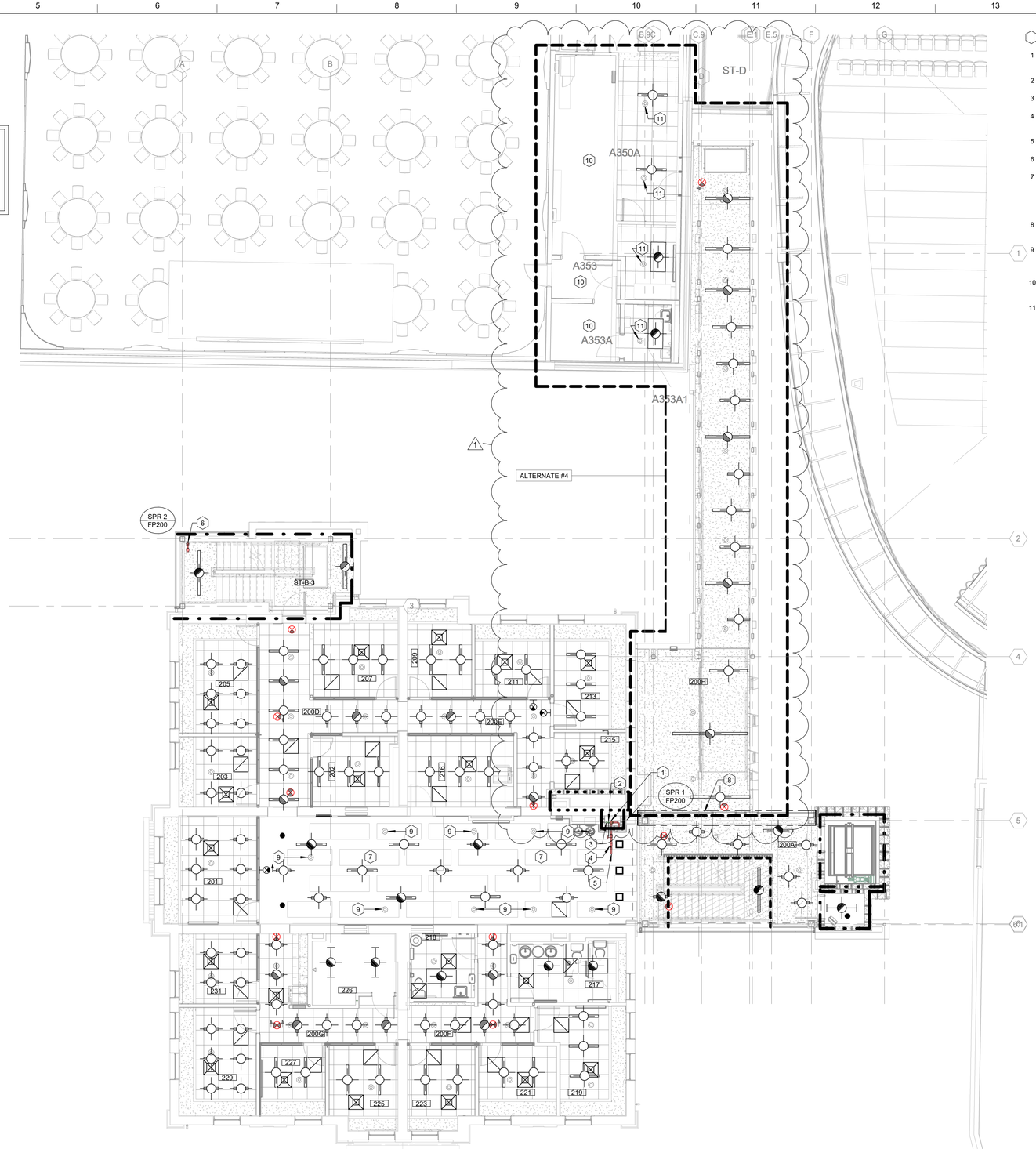
JOB. NO.: 11396-00

DWG. NO.: P400

BIM 360://11396-00 UK Frazee Hall/20312 R21 UK Frazee Hall MEP.rvt
7/30/2021 10:04:26 AM

NOTE:
AREAS ABOVE DROP CEILINGS ON THE GROUND, FIRST AND SECOND FLOORS ARE OF COMBUSTIBLE CONSTRUCTION AND THE CONTRACTOR SHALL PROVIDE UPRIGHT SPRINKLER COVERAGE IN ACCORDANCE WITH **NFPA 13.**

BUILDING SHALL BE 100% SPRINKLED IN ACCORDANCE WITH THE KENTUCKY BUILDING CODE AND NFPA 13.



CODED NOTES:

1 4" COMBINATION SPRINKLER/STANDPIPE UP & DOWN WITH 2-1/2" HOSE VALVE IN CABINET.

2 2" SPRINKLER DRAIN/INSPECTORS TEST DRAIN DOWN FROM ABOVE.

3 3" DRY PIPE RISER UP.

4 FLOOR CONTROL VALVE WITH REMOTE TEST AND DRAIN. SEE DETAIL SHEET FP200.

5 TO SECOND FLOOR SPRINKLERS.

6 4" STANPIPE WITH 2-1/2" HOSE VALVE.

7 AREAS ABOVE CLOUD CEILINGS AND ARCHITECTURAL CEILING FEATURES ARE OF COMBUSTIBLE CONSTRUCTION AND REQUIRES SPRINKLER COVERAGE ABOVE CEILING FEATURE IN ACCORDANCE WITH NFPA 13 (SPRINKLERS NOT SHOWN). SPRINKLER CONTRACTOR TO PROVIDE APPROPRIATE SPRINKLER COVERAGE.

8 PROVIDE A LISTED WINDOW SPRINKLER ASSEMBLY TO ACHIEVE NECESSARY WALL ASSEMBLY RATING.

9 PROVIDE PENDENT SPRINKLER WITH SHIELD BELOW HANGING BAFFLE IN ACCORDANCE WITH NFPA 13. ROUTE IN BRANCH PIPING ABOVE BAFFLES AND ARMOVER AND DOWN TO SPRINKLER.

10 AREA WAS PREVIOUSLY SPRINKLED WITH THE STUDENT CENTER FIRE PROTECTION SYSTEM. RELOCATE SPRINLER HEADS AS REQUIRED.

11 REMOVE AND REPLACE EXISTING SPRINKLER HEAD IN NEW LOCATION. REVISE BRANCH PIPING AS REQUIRED.

LIFE SAFETY LEGEND

- SMOKE PARTITION
- DRAFT CURTAIN
- 1-HOUR RATED WALL
- 2-HOUR RATED WALL

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
200	RECEPTION
200A	HALL
200B	FSL OPEN OFFICE
200C	RES LIFE OPEN OFFICE
200D	HALL
200E	HALL
200F	HALL
200G	HALL
200H	PEDESTRIAN WALKWAY
201	RES LIFE OFFICE
202	RES LIFE OFFICE
203	RES LIFE OFFICE
205	RES LIFE OFFICE
207	RES LIFE OFFICE
209	RES LIFE OFFICE
211	RES LIFE OFFICE
213	RES LIFE OFFICE
215	WAITING
216	RES LIFE OFFICE
217	RESTROOM
218	RESTROOM
219	FSL OFFICE
220	STORAGE
221	FSL OFFICE
223	FSL OFFICE
225	FSL OFFICE
226	IDF
227	TEAM ROOM
228	COPY
229	FSL SHARED OFFICE
231	FSL OFFICE
A300M	HALL
A350A	CHAIR AND TABLE STORAGE
A353	GREEN RM
A353A	TOILET
ST-A-2	STAIR-2
ST-B-3	STAIR-3

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

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

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum 1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SECOND FLOOR - FIRE PROTECTION PLAN
SCALE (U.N.O.)

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

SEAL: STATE OF KENTUCKY — CHRISTOPHER C. KEATH 15288 — LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021
JOB. NO.: 11396-00
DWG. NO.: FP102

BIM 360://11396-00 UK Frazee Hall/20312 R21 UK Frazee Hall MEP.rvt
7/28/2021 1:01:54 PM

ELECTRICAL LEGEND

EQUIPMENT, CONDUITS, ETC.

	CONDUIT BELOW FLOOR
	CONDUIT ABOVE FLOOR
o	ENTRANCE POINT OF CONDUIT THROUGH FLOOR
	WIREWAY OR CABLE TRAY
	WIRE MOLD (FOR POWER AND/OR DATA)
	PANELBOARD OR TERMINAL CABINET (REFER TO PLANS AND RISER FOR SIZE)
	SECTIONAL SWITCH GEAR (REFER TO PLANS AND RISER FOR NUMBER OF SECTIONS AND LAYOUT)
	TRANSFORMER (REFER TO PLANS AND RISER FOR SIZE)
J	JUNCTION BOX
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH
	FUSED DISCONNECT
	COMBINATION MAGNETIC STARTER AND FUSED SWITCH
	MOTOR
HOT GROUND NEUTRAL	WIRE / CONDUIT
12	BOTTOM OF DEVICE (IN INCHES A.F.F.)
1	SEE NOTE 1 THIS SHEET
HW ??	HEADWALL - FOR SERVICES, SEE DETAILS
	GROUND

LIGHTING & LIGHTING DEVICES

	LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE)
	EMERGENCY LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE)
	WALL MOUNTED LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE)
	EMERGENCY WALL MOUNTED LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE)
	TRACK LIGHTING
	EMERGENCY TRACK LIGHTING
W	WALL-MOUNTED WARNING LIGHT
	EXIT LIGHT
	EXIT LIGHT WITH DIRECTION
	EXIT LIGHT (WALL MOUNTED)
	COMBINATION EMERGENCY BATTERY PACK AND EXIT SIGN
	EMERGENCY BATTERY PACK
LR	LIGHTING CONTROL RELAY
ETR	EMERGENCY TRANSFER RELAY
OS	OCCUPANCY / VACANCY SENSOR
OS	WALL MOUNTED OCCUPANCY / VACANCY SENSOR
1 PC	PHOTO SENSOR
LCP	LIGHTING CONTROL PANEL
1 LF-# a NL	LF-# = LIGHT FIXTURE TYPE TAG (REFER TO LIGHT FIXTURE SCHEDULE) 1 = CIRCUIT NUMBER a = SWITCHING/ZONING DESIGNATION (IF APPLICABLE) NL = FIXTURE IS A NIGHT LIGHT (IF APPLICABLE)

WALL SWITCHES (BOTTOM 44" A.F.F.)
(EXCEPT AS NOTED OTHERWISE)

$	SINGLE POLE
$2	DOUBLE POLE
$3	THREE-WAY
$4	FOUR-WAY
$LV	LOW-VOLTAGE, MOMENTARY
$OS	OCCUPANCY/VACANCY SENSOR SWITCH
$D	DIMMER
$P	PILOT LIGHT
$OL	THERMAL OVERLOAD
$P OL	THERMAL OVERLOAD WITH PILOT LIGHT
$K	KEY OPERATED SWITCH
CS	LIGHTING CONTROL STATION
MS	MASTER LIGHTING CONTROL STATION

RECEPTACLES (BOTTOM 16" A.F.F.)
(EXCEPT AS NOTED OTHERWISE)

	DUPLEX CONVENIENCE OUTLET
	QUADRAPLEX CONVENIENCE OUTLET
GFI	GROUND FAULT INTERRUPTING OUTLET
WP	WEATHERPROOF OUTLET
SW	SWITCHED/CONTROLLED DUPLEX OUTLET
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT
CM	CEILING MOUNTED RECEPTACLE.
USB	USB DUPLEX RECEPTACLE.
	SIMPLEX WALL OUTLET (RATING AS NOTED)
	WALL OUTLET (240V, 1-PHASE) (RATING AS NOTED)
	WALL OUTLET (240V, 3-PHASE) (RATING AS NOTED)
	FLOOR BOX / POKE-THRU FOR POWER AND/OR DATA
H	HOOD CONNECTION
	EQUIPMENT CONNECTION
R	CONTROL RELAY

COMMUNICATIONS

	TELECOMMUNICATIONS RACK
	DATA OUTLET (DATA & COMMUNICATIONS) (MOUNTED AT 16" TO THE BOTTOM AFF) (UNLESS OTHER WISE NOTED)
xD xC xV	COMMUNICATION OUTLET NOTATION: xD NUMBER OF DATA PORTS xC NUMBER OF CATV PORTS xV NUMBER OF VOICE PORTS
	GROUNDING BAR

SECURITY

CR	CARD READER / PROXIMITY READER
P	DOOR PUSH PLATE
K	KEY PAD
	DOOR CONTACTS
	T.V./SECURITY CAMERA OUTLET
PB	PANIC BUTTON
S	SIREN
AS	AUDIO OR GLASS BREAK SENSOR

FIRE ALARM

F	FIRE ALARM BREAKGLASS STATION (BOTTOM 44" A.F.F.)
F	FIRE ALARM SPKR/FLASHING LIGHT (80" TO BOTTOM, WALL MNT)
F	FIRE ALARM FLASHING LIGHT (80" TO BOTTOM, WALL MOUNTED)
	FIRE ALARM SPEAKER (80" TO BOTTOM, WALL MOUNTED)
FA	FIRE ALARM SPEAKER /FLASHING LIGHT (CEILING MOUNTED)
F	FIRE ALARM SPEAKER (CEILING MOUNTED)
S	SINGLE STATION SMOKE DETECTOR (CEILING MOUNTED)
SD	ADDRESSABLE SMOKE DETECTOR (CEILING MOUNTED)
SD	DUCT TYPE SMOKE DETECTOR
HD	AUTOMATIC HEAT DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
EDH	ELECTROMAGNETIC DOOR HOLDER
EDC	ELECTROMAGNETIC DOOR CLOSER
TS	TAMPER SWITCH
FS	FLOW SWITCH
RA	REMOTE TEST ACTIVATOR

SOUND AND INTERCOM

	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
H	WALL MOUNTED HORN
A	ALARM TYPE SPEAKER
V	VOLUME CONTROL
I M	MASTER INTERCOM STATION
I	INTERCOM STATION
M	MICROPHONE OUTLET IN FLOOR (FLUSH TYPE)
M	MICROPHONE OUTLET IN WALL (BOTTOM 16" A.F.F.)
C	CALL IN SWITCH

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ATCP	AUTOMATIC TEMPERATURE CONTROL PANEL
C	CONDUIT
FA	FIRE ALARM
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
JB	JUNCTION BOX
TTC	TELEPHONE TERMINAL CABINET
W	WIRE
F	FLUSH
P	PEDESTAL
CKT	CIRCUIT
REC(S)	RECEPTACLE(S)
LTG	LIGHTING
NL	NIGHT LIGHT
AIC	AMPERE INTERRUPTING CAPACITY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
LCP	LIGHTING CONTOL PANEL

NOTE:

THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THIS SET OF CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED THE ITEM SHALL BE FURNISHED AND INSTALLED.

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

ELECTRICAL GENERAL NOTES

1. INSTALL PANELBOARDS WITH THE TOP AT 6-6" ABOVE FINISHED FLOOR.
2. PROVIDE SUPPORTS FOR ALL VERTICAL CONDUIT RUNS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. INSTALL SECONDARY UNDERGROUND CONDUCTORS A MINIMUM OF 36" DEEP TO TOP OF CONDUIT OR ENCASEMENT.
4. FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) 1" SPARE CONDUITS CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING. TURN OUT 4" FROM WALL AND CAP.
5. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
6. PROVIDE A COPY OF ALL COMPLETED PANEL SCHEDULES IN THE O & M MANUAL.
7. LIGHTS IN MECHANICAL SPACES SHALL BE LOCATED SO AS TO CLEAR PIPING, DUCTWORK, AND EQUIPMENT ON CEILING. FIELD VERIFY.
8. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
9. FLEXIBLE CONDUIT SHALL BE USED FOR FIXTURE WHIPS TO LIGHT FIXTURES. FLEXIBLE CONDUITS TO LIGHT FIXTURES SHALL NOT EXCEED 6'-0" AND SHALL BE A MINIMUM OF 1/2".
10. CHAIN FOR SUPPORTING LIGHT FIXTURES SHALL BE GALVANIZED STEEL WELL CHAIN WITH A MINIMUM DEAD WEIGHT CAPACITY OF 100 LBS.
11. RECESSED LIGHTING FIXTURE WITHIN A GRID TYPE CEILING TO BE SUPPORTED INDEPENDENTLY FROM THE GRID. SUPPORT FIXTURE FROM STRUCTURE ABOVE WITH 12 GUAGE WIRE ONE ON EACH CORNER.
12. WALL MOUNTED OCCUPANCY/VACANCY SENSORS SHALL BE MOUNTED AND INSTALLED IMMEDIATELY BELOW THE CEILING AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR BEST COVERAGE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS.
13. CONTRACTOR SHALL CHECK ALL DOOR SWINGS AND SHALL BE RESPONSIBLE FOR INSTALLING ALL ROOM LIGHT SWITCHES/CONTROL STATIONS ASSOCIATED WITH DOORS ON THE STRIKE SIDE OF THE DOORS REGARDLESS OF THE INDICATION ON THE ELECTRICAL DRAWINGS. SWITCHES NOT COMPLYING SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
14. ALL CONDUIT SHALL BE HOMERUN TO PANELBOARD AS INDICATED ON THE DRAWINGS. COMBINING OF CIRCUITS IN HOMERUNS WILL NOT BE ACCEPTABLE. ANY DEVIATIONS IN SUCH WORK WILL NOT BE APPROVED EXCEPT AS REQUIRED TO MEET THE NATIONAL ELECTRICAL CODE OR BY PERMISSION OF THE ENGINEER.
15. ALL CONDUIT SHALL BE CONCEALED IN EXISTING AND NEW WALLS AND CEILINGS EXCEPT MECHANICAL ROOMS. REFER TO SPECIFICATIONS.
16. ELECTRICAL CONTRACTOR SHALL LOCATE ALL ELECTRICAL EQUIPMENT AS REQUIRED TO INSURE MINIMUM CLEARANCES ARE PROVIDED IN ACCORDANCE WITH THE N.E.C.
17. CONCERNING ALL RISER DIAGRAMS: AN ATTEMPT HAS BEEN MADE TO SHOW ALL DEVICES ON RISER DIAGRAM. ANY DEVICES SHOWN ON FLOOR PLANS AND NOT SHOWN ON RISER DIAGRAMS SHALL BE CONNECTED TO SYSTEM, AS REQUIRED.
18. ALL SCHEMATICS ARE FOR BID PURPOSES ONLY. SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM THE MANUFACTURER.
19. ALL DEVICES SHALL BE LOCATED ON CLEAR WALL SPACES, CLEAR OF ALL SHELVING, CHALKBOARDS, TACKBOARDS, CASEWORK, ETC. OUTLETS NOT COMPLYING WITH THE ABOVE SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
20. ROUGH-IN FOR ELECTRIC DRINKING FOUNTAINS (WATER COOLERS) SHALL BE PERFORMED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
21. ROUGH-IN FOR EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE HEIGHT OF ALL DEVICES AT ALL CASEWORK LOCATIONS TO AVOID CONFLICTS. ALL OUTLETS SHALL BE ROUGHED-IN IN ACCORDANCE WITH ARCHITECTURAL CASEWORK ELEVATIONS. EXACT LOCATION OF ALL OUTLETS SHALL BE AS DIRECTED BY THE OWNER.
23. COORDINATE EXACT LOCATION OF ALL DEVICES IN THE CEILING WITH THE ARCHITECTURAL, HVAC, LIGHTING, AND FIRE PROTECTION REFLECTED CEILING PLANS.
24. THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS TO GROUND BUS IN PANELBOARDS AND IN ALL CIRCUITS TO EQUIPMENT AND RECEPTACLES. SEE SPECIFICATIONS.
25. ALL EXTERIOR UNDERGROUND CIRCUITS SHALL BE INSTALLED WITH TOP OF CONDUIT OR CONCRETE ENCASEMENT A MINIMUM OF 24" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
26. LIQUIDTITE FLEXIBLE METAL CONDUIT (LFMC) SHALL BE USED FOR FIXTURE WHIPS TO MOTORS. FLEXIBLE CONDUIT TO MOTORS SHALL BE A MINIMUM OF 3/4" AND SHALL NOT EXCEED 24" IN LENGTH.
27. ALL ELECTRICAL OUTLETS WITHIN 6'-0" OF A WATER SOURCE SHALL BE OF THE GFI TYPE.
28. FIRE ALARM SYSTEM LAYOUT IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER. DEVICE QUANTITY AND LOCATION SHALL PROVIDE COVERAGE IN ALL AREAS PER NFPA 72. PROVIDE DEVICES AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT.
29. PROVIDE 5' EXCESS CABLE COILED ABOVE THE CEILING FOR EACH DATA DROP.
30. LABEL CABLES BOTH AT THE RACK AND AT THE INDIVIDUAL OUTLET.
31. INSTALL STEEL SLEEVES BETWEEN TELECOMMUNICATIONS ROOMS. SLEEVES SHALL EXTEND 4" AFF AND 4" BELOW THE DECK. A MINIMUM OF TWO (2) SLEEVES ON THREE (3) WALLS IS REQUIRED. ALL SLEEVES MUST BE FIRE CAULKED AND SEALED, INITIAL FIRE CAULKING IS THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE SLEEVES. INSTALL GROUND BUSHINGS ON ALL SLEEVES AND PROPERLY GROUND TO THE GROUNDING BAR. TELECOMMUNICATIONS ROOMS THAT ARE NOT STACKED WILL REQUIRE THE INSTALLATION OF SIX (6) RISER CONDUITS (4 INCH MINIMUM DIAMETER) WITH PULL STRINGS AND APPROPRIATE JUNCTION PULL BOXES CONNECTING ALL TELECOMMUNICATIONS ROOMS.
32. FIRE TREATED PLYWOOD, 3/4 INCH THICK, MUST BE MECHANICALLY FASTENED TO ALL WALLS OF EACH TELECOMMUNICATIONS ROOM. THE FIRE TREATED PLYWOOD WILL BEGIN AT 4" AFF AND END AT 8' 4" AFF. THE ROOM WALLS WILL BE FINISHED WITH DRYWALL (COMPLETELY TAPED, SANDED, AND PAINTED) OR CONCRETE BLOCK (PAINTED) PRIOR TO MOUNTING THE PLYWOOD.
33. CABLE TRAY WILL LOOP THE ENTIRE PERIMETER INSIDE A TELECOMMUNICATIONS ROOM AT 8' AFF. MAINTAIN A 4" CLEARANCE FROM EACH WALL. SUPPORT WITH TRAPEZE MADE UP OF ALL THREAD AND UNISTRUT. UNIVERSAL 12" CABLE TRAY WILL BE INSTALLED AT THE TOP OF THE COMMUNICATIONS RACKS SPANNING THE WIDTH OF THE ROOM. RADIUS DROP OUTS WILL BE INSTALLED ON ALL CABLE TRAYS WHERE CABLES EXIT THE TRAY TO A LOWER ELEVATION.
34. ALL TELECOMMUNICATIONS ROOMS SHALL HAVE A GROUNDING BAR, WHICH MEASURES 12" LONG BY 4" WIDE BY ¼" THICK WITH PRE-DRILLED ¼" HOLES. THE GROUND BAR SHALL BE CONNECTED TO THE MAIN BUILDING GROUND USING # 2 OR GREATER AWG COPPER WIRE WITH A MAXIMUM RESISTANCE OF 0.5 OHMS OR LESS. NEC REQUIREMENTS SHALL BE FOLLOWED.
35. ALL CABLE TRAY WITHIN THE TELECOMMUNICATIONS ROOM SHALL BE GROUNDED TO THE MAIN BUILDING GROUNDING SYSTEM WITH A WIRE NOT SMALLER THAN #2 AWG COPPER. GROUND WIRE AND CLAMPS WILL BE INSTALLED ON THE EXTERIOR OF THE CABLE TRAY.
36. NO MORE THAN AN EQUIVALENT OF 270 DEGREES OF BEND, INCLUDING OFFSETS, IS ALLOWED IN A CONDUIT RUN BETWEEN JUNCTION BOXES OR PULL BOXES.
37. ABSOLUTELY NO "LB'S" ARE ALLOWED IN ANY COMMUNICATIONS CONDUIT INSTALLATION.
38. CONDUIT ENDS AT A CABLE TRAY WILL HAVE PLASTIC BUSHINGS AND BE WIRE BONDED TO THE TRAY.
39. CONDUIT THAT TERMINATES IN THE TELECOMMUNICATIONS ROOM MUST HAVE PLASTIC BUSHINGS AND BE WIRE BONDED TO THE GROUND BAR LOCATED IN THE ROOM.
40. ALL COMMUNICATIONS OUTLETS SHALL BE FED WITH CONDUIT AND PULL STRING, WITH AN ABSOLUTE MINIMUM NUMBER OF BENDS FROM THE OUTLET TO THE CABLE TRAY, OR HOMERUN DIRECTLY TO THE TELECOMMUNICATIONS ROOM. PULL BOXES MUST BE INSTALLED AFTER EVERY 270 DEGREES OF BEND (INCLUDING OFFSETS) OR 100 FEET OF THE CONDUIT RUN.
41. PREPACKAGED INTUMESCENT MATERIALS ARE THE PREFERRED MATERIAL FOR FIREPROOFING FOR TELECOMMUNICATIONS. DO NOT USE CONCRETE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUIT. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED.
42. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL / STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
43. WHERE WALLS WILL BE TRENCHED TO CONCEAL NEW CONDUITS, TRENCH WIDTH SHALL NOT EXCEED HALF OF A SINGLE BRICK WIDTH. COORDINATE WITH ARCHITECT.
44. SECURITY CAMERAS ARE TO BE CEILING MOUNTED UNLESS OTHERWISE SPECIFIED.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:

1	Addendum #1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: ELECTRICAL LEGEND AND GENERAL NOTES
SCALE (U.N.O.)

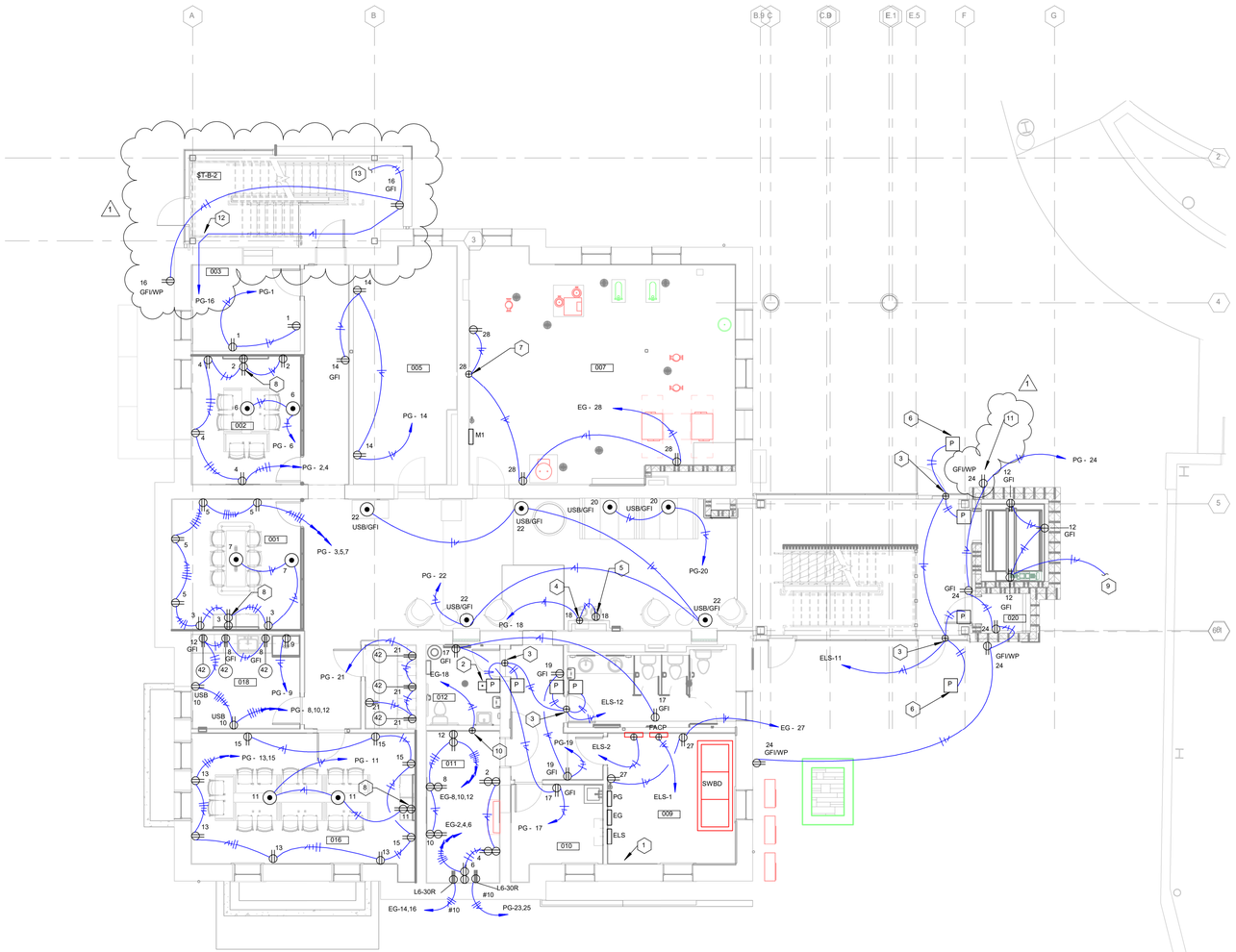
JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

SEAL: STATE OF KENTUCKY · WAYNE A. THOMAS · 18353 · LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021
JOB. NO.: 11396-00
DWG. NO.: E000

BIM 360://11396-00 UK Frazee Hall/20312 R21 UK Frazee Hall MEP.rvt
7/28/2021 1:20:42 PM



CODED NOTES:

1. INSTALL REMOTE OPERATOR FOR MAIN BREAKER OF SWITCHBOARD "SWBD" AT THIS LOCATION AT 48" AFF. LABEL AS "REMOTE OPERATOR FOR MAIN BREAKER" AND COVER WITH HINGED PLASTIC COVER.
2. ELECTRIC PUSH BUTTON DOOR LOCK. INSTALL ABOVE DOOR PUSHPLATE, PROVIDE CONNECTIONS AS REQUIRED TO DOOR HARDWARE SYSTEM. COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.
3. PROVIDE CONNECTION TO AUTOMATIC DOOR OPERATOR.
4. PROVIDE CONNECTION TO WATER FOUNTAIN / BOTTLE FILLER. COORDINATE WITH EQUIPMENT SHOP DRAWINGS.
5. RECEPTACLE FOR CLOCK. INSTALL SO TOP OF CLOCK WILL BE APPROXIMATELY 8.5' AFF. PROVIDE AND INSTALL CLOCK PER SPECIFICATIONS.
6. PUSH PLATE IS TO BE MOUNTED ON BOLLARD. SEE ARCHITECTURAL PLANS.
7. PROVIDE CONNECTION TO TRAP PRIMER UNIT.
8. INSTALL RECEPTACLE FOR TELEVISION AT SAME HEIGHT AS AND ADJACENT TO TELEVISION MOUNT. COORDINATE WITH ARCHITECTURAL DRAWINGS.
9. CONTINUE CIRCUIT TO ELEVATOR PIT LIGHTING.
10. PROVIDE POWER CONNECTIONS FOR SECURITY / ACCESS CONTROLS PANELS AS REQUIRED.
11. MOUNT RECEPTACLE TO BE ACCESSIBLE ABOVE PLANTER.
12. FOLLOW ROUTE OF FIRE PROTECTION LINES AS SHOWN ON FP 100.
13. CONTINUE CIRCUIT TO FLOOR ABOVE.

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
000	HALL
000A	HALL
000B	HALL
000C	HALL
000D	HALL
001	MED. CONF.
002	SM. CONF.
003	STORAGE
005	STORAGE
007	MECHANICAL
009	ELECTRICAL
010	JANITOR'S CLOSET
011	MDF
012	RESTROOM
012	RESTROOM
014	MAIL ROOM
016	CONFERENCE ROOM
018	BREAK ROOM
020	STORAGE

NOTE:
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

GROUND FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum 1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: GROUND FLOOR - POWER PLAN
SCALE: (U.N.O.)

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

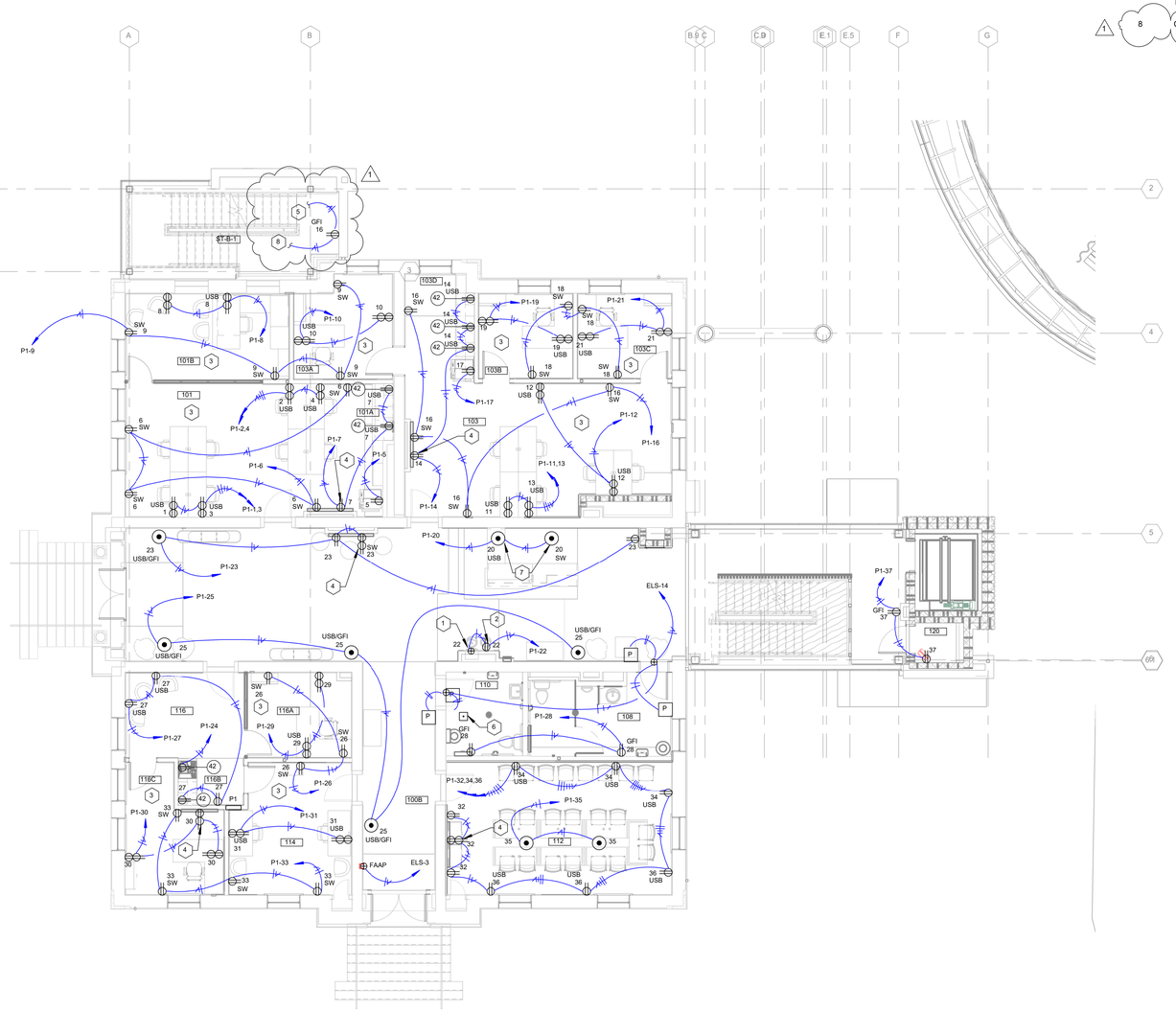
SEAL: STATE OF KENTUCKY — WAYNE A. THOMAS — 18553 — LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021
JOB. NO. 11396-00
DWG. NO. E200

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 12:19:00 PM

CODED NOTES:

1. PROVIDE CONNECTION TO WATER FOUNTAIN / BOTTLE FILLER. COORDINATE WITH EQUIPMENT SHOP DRAWINGS.
2. RECEPTACLE FOR CLOCK. INSTALL SO TOP OF CLOCK WILL BE APPROXIMATELY 9' AFF. PROVIDE AND INSTALL CLOCK PER SPECIFICATIONS.
3. SWITCHED RECEPTACLES ARE TO BE CONTROLLED BY THE LIGHTING CONTROL SYSTEM. SEE LIGHITNG SEQUENCE OF OPERATIONS.
4. INSTALL RECEPTACLE FOR TELEVISION AT SAME HEIGHT AS AND ADJACENT TO TELEVISION MOUNT. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5. CONTINUE CIRCUIT TO FLOOR ABOVE.
6. ELECTRIC PUSH BUTTON DOOR LOCK. INSTALL ABOVE DOOR PUSHPLATE, PROVIDE CONNECTIONS AS REQUIRED TO DOOR HARDWARE SYSTEM. COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.
7. COORDINATE EXACT LOCATION OF FLOORBOX WITH FURNITURE PRIOR TO ROUGH-IN.
8. CONTINUE CIRCUIT FROM FLOOR BELOW.



FIRST FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
100	HALL
100A	HALL
100B	HALL
101	RES LIFE OPEN OFFICE
101A	COPY AREA
101B	PRES. RES. HALLS ST. ORG.
103	K WEEK/ FAM. PROG.
103A	K WEEK OFFICE
103B	FAM. PROG. OFFICE
103C	FAM. PROG. OFFICE
103D	COPY AREA
108	RESTROOM
110	RESTROOM
112	CONFERENCE ROOM
114	EISJ SHARED OFFICE
116	EISJ RECEPTION
116A	EISJ OFFICE
116B	COPY
116C	EISJ OFFICE
120	STORAGE

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum 1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: FIRST FLOOR - POWER PLAN

SCALE: (LAYOUT)

JOB NAME: University of Kentucky
2511.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40506

KEY PLAN

PROJECT NORTH

SEAL

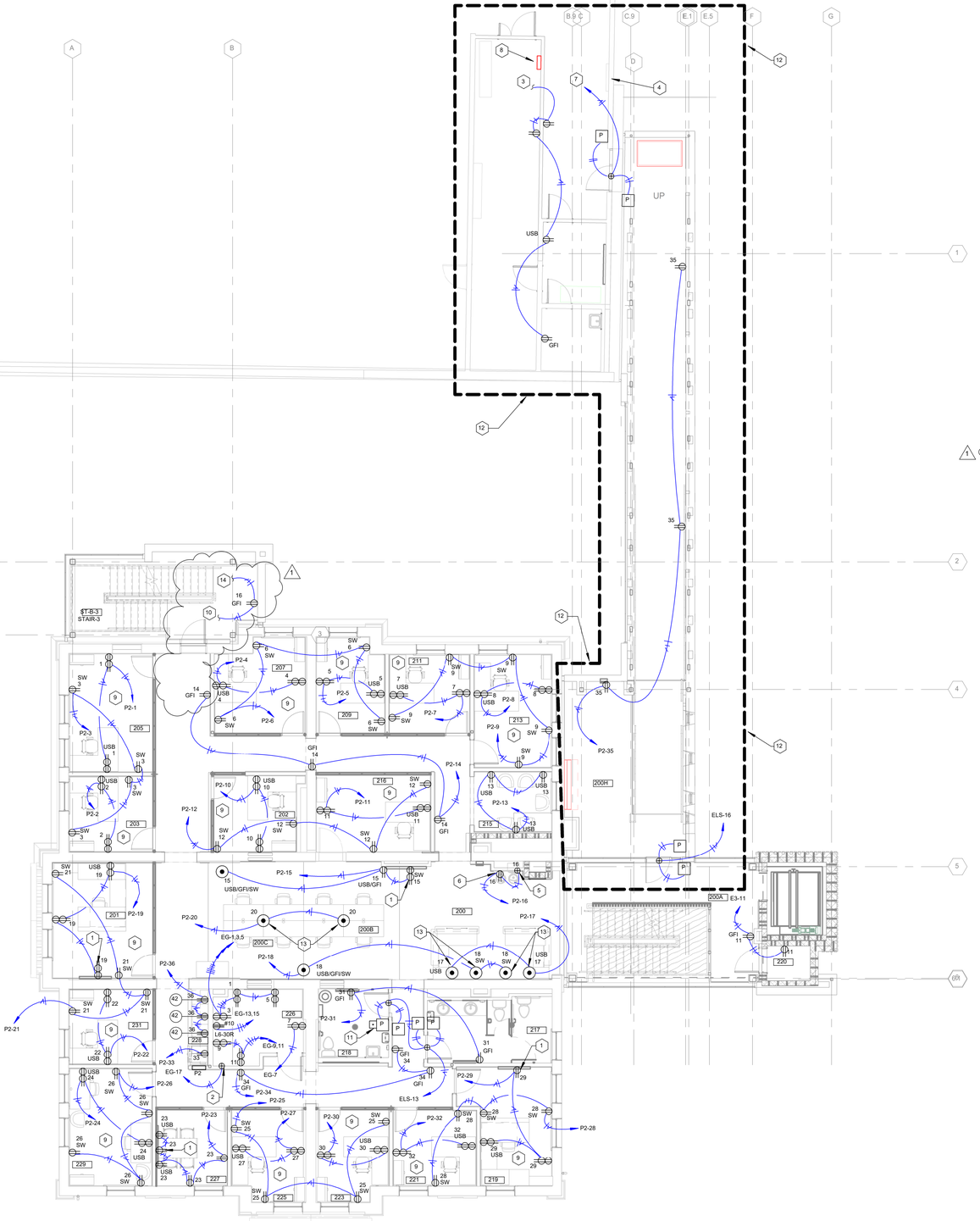
STATE OF KENTUCKY
WAYNE A. THOMAS
18353
LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

JOB. NO. 11396-00

DWG. NO. E201

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/29/2021 12:23:37 PM



CODED NOTES:

1. INSTALL RECEPTACLE FOR TELEVISION AT SAME HEIGHT AS AND ADJACENT TO TELEVISION MOUNT. COORDINATE WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE POWER CONNECTIONS FOR SECURITY / ACCESS CONTROLS PANELS AS REQUIRED.
3. RECONNECT TO EXISTING RECEPTACLE CIRCUIT IN THIS LOCATION.
4. RELOCATE EXISTING LIGHTING CONTROL PANEL AND ASSOCIATED DISCONNECT. EXTEND AND RECONNECT ALL EXISTING FEEDERS, BRANCH CIRCUITS, AND CONTROL CABLING.
5. PROVIDE CONNECTION TO WATER FOUNTAIN / BOTTLE FILLER. COORDINATE WITH EQUIPMENT SHOP DRAWINGS.
6. RECEPTACLE FOR CLOCK. INSTALL SO TOP OF CLOCK WILL BE APPROXIMATELY 9' AFF. PROVIDE AND INSTALL CLOCK PER SPECIFICATIONS.
7. ROUTE CIRCUIT TO A SPARE 20A / 1P CIRCUIT BREAKER IN STUDENT CENTER PANEL A333EP4 LOCATED IN STUDENT CENTER ELEC ROOM A333. SEE SHEET E209.
8. NEW LOCATION OF EXISTING LIGHTING CONTROL PANEL AND ASSOCIATED DISCONNECT. RECONNECT TO EXISTING CIRCUITS AS REQUIRED. EXTEND EXISTING LIGHTING CIRCUITS AND RECONNECT. VERIFY ALL LIGHTING CIRCUITS WORK AS INTENDED.
9. SWITCHED RECEPTACLES ARE TO BE CONTROLLED BY THE LIGHTING CONTROL SYSTEM. SEE LIGHTING SEQUENCE OF OPERATIONS.
10. CONTINUE CIRCUIT TO FLOOR BELOW.
11. ELECTRIC PUSH BUTTON DOOR LOCK. INSTALL ABOVE DOOR PUSHPLATE. PROVIDE CONNECTIONS AS REQUIRED TO DOOR HARDWARE SYSTEM. COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.
12. ALL WORK SHOWN WITHIN DASHED BOX IS TO BE INCLUDED IN ADD ALTERNATE #4.
13. COORDINATE EXACT LOCATION OF FLOORBOX WITH FURNITURE PRIOR TO ROUGH-IN.
14. CONTINUE CIRCUIT TO FLOOR ABOVE.

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
200	RECEPTION
200A	HALL
200B	FSL OPEN OFFICE
200C	RES LIFE OPEN OFFICE
200D	HALL
200E	HALL
200F	HALL
200G	HALL
200H	PEDESTRIAN WALKWAY
201	RES LIFE OFFICE
202	RES LIFE OFFICE
203	RES LIFE OFFICE
205	RES LIFE OFFICE
207	RES LIFE OFFICE
209	RES LIFE OFFICE
211	RES LIFE OFFICE
213	RES LIFE OFFICE
215	WAITING
216	RES LIFE OFFICE
217	RESTROOM
218	RESTROOM
219	FSL OFFICE
220	STORAGE
221	FSL OFFICE
223	FSL OFFICE
225	FSL OFFICE
226	IDF
227	TEAM ROOM
228	COPY
229	FSL SHARED OFFICE
231	FSL OFFICE
A300M	HALL
A350A	CHAIR AND TABLE STORAGE
A353	GREEN RM
A353A	TOILET
ST-A-2	STAIR-2
ST-B-3	STAIR-3

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

SECOND FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

BIM 360://11396-00 UK Frazee Hall/20312.R21 UK Frazee Hall MEP.rvt
7/28/2021 12:25:30 PM

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum 1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive, Lexington, KY 40517 | 859-271-3246

SHEET TITLE: SECOND FLOOR - POWER PLAN
SCALE (1/4"=1'-0"):

JOB NAME: University of Kentucky 2511.8 Renew/Modernize Facilities (Frazee Hall)
LOCATION: 406 Administration Drive Lexington, KY 40508

KEY PLAN
PROJECT NORTH

SEAL: STATE OF KENTUCKY · WAYNE A. THOMAS · 18555 · PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021
JOB. NO.: 11396-00
DWG. NO.: E202

CODED NOTES:

1 PROVIDE CONNECTION TO WATER FOUNTAIN / BOTTLE FILLER. COORDINATE WITH EQUIPMENT SHOP DRAWINGS.

2 RECEPTACLE FOR CLOCK. INSTALL SO TOP OF CLOCK WILL BE APPROXIMATELY 9' AFF. PROVIDE AND INSTALL CLOCK PER SPECIFICATIONS.

3 SWITCHED RECEPTACLES ARE TO BE CONTROLLED BY THE LIGHTING CONTROL SYSTEM. SEE LIGHITNG SEQUENCE OF OPERATIONS.

4 INSTALL RECEPTACLE FOR TELEVISION AT SAME HEIGHT AS AND ADJACENT TO TELEVISION MOUNT. COORDINATE WITH ARCHITECTURAL DRAWINGS.

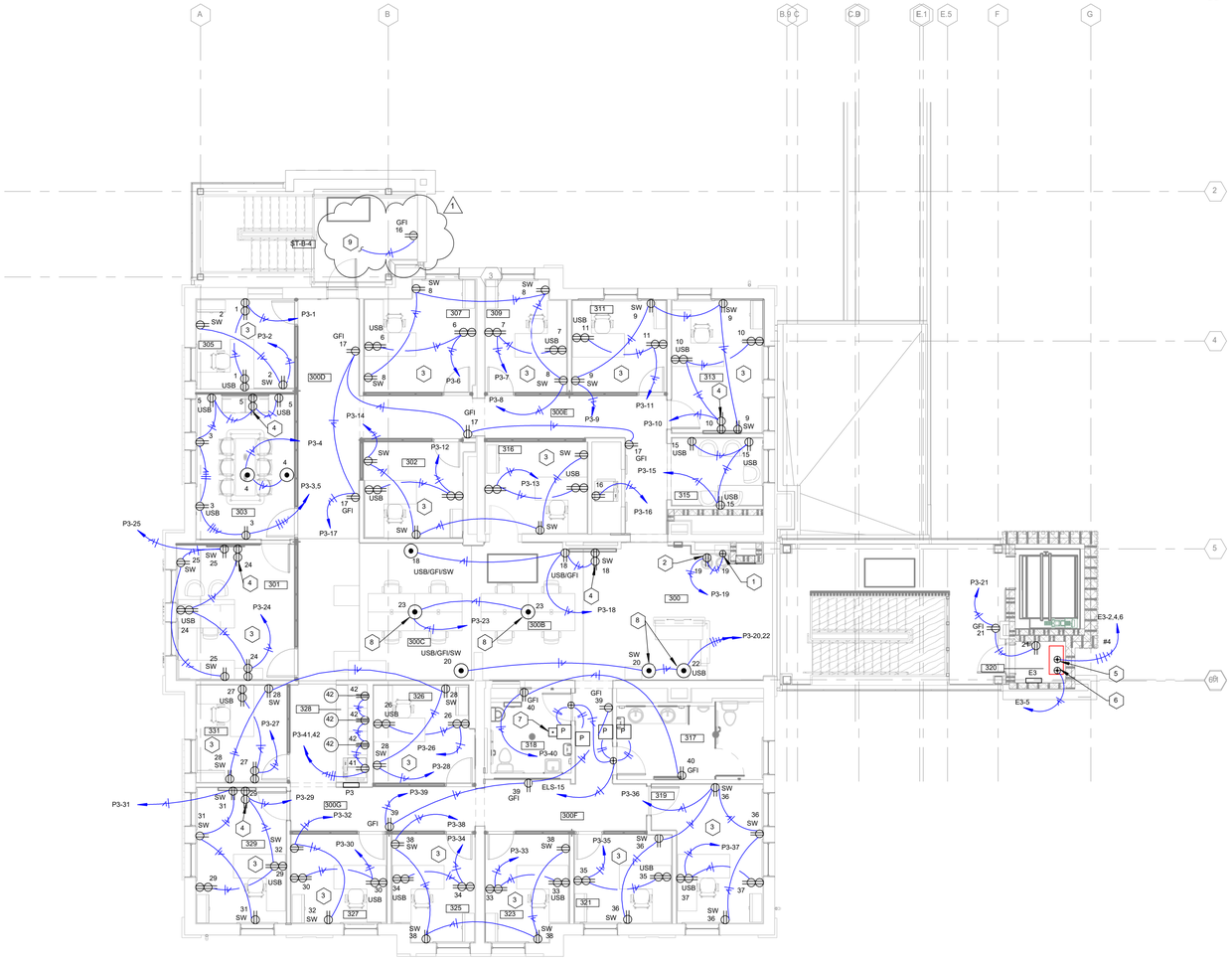
5 PROVIDE CONNECTION TO ELEVATOR. COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN. ROUTE ENTIRE CIRCUIT WITH #4 AND 1#8 GROUND IN 1-1/4" CONDUIT.

6 PROVIDE CONNECTION TO ELEVATOR CONTROLLER FOR CONTROLS AND CAB LIGHTS. COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.

7 ELECTRIC PUSH BUTTON DOOR LOCK. INSTALL ABOVE DOOR PUSHPLATE. PROVIDE CONNECTIONS AS REQUIRED TO DOOR HARDWARE SYSTEM. COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.

8 COORDINATE EXACT LOCATION OF FLOORBOX WITH FURNITURE PRIOR TO ROUGH-IN.

9 CONTINUE CIRCUIT FROM FLOOR BELOW.



ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
300	RECEPTION
300A	HALL
300B	CSI OPEN OFFICE
300C	OSC OPEN OFFICE
300D	HALL
300E	HALL
300F	HALL
300G	HALL
301	DEANS OFFICE
302	CSI OFFICE
303	CONFERENCE ROOM
305	CSI OFFICE
307	CSI OFFICE
309	CSI OFFICE
311	CSI OFFICE
313	CSI OFFICE
314	COPY
315	WAITING
316	CSI OFFICE
317	RESTROOM
318	RESTROOM
319	RES LIFE OFFICE
320	ELEV. CONTROL ROOM
321	RES LIFE OFFICE
323	RES LIFE OFFICE
325	OSC OFFICE
326	OSC OFFICE
327	OSC OFFICE
328	COPY AREA
329	OSC OFFICE
331	OSC OFFICE

NOTE:
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

THIRD FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

LORD AECK SARGENT
A KATERRA COMPANY
LordAeckSargent.com

REVISION:		
1	Addendum 1	7/30/21

STAGGS & FISHER
CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive Lexington, KY 40517 | 859-271-3246

SHEET TITLE: THIRD FLOOR - POWER PLAN

SCALE: (UNO)

JOB NAME: University of Kentucky
25111.8 Renew/Modernize Facilities (Frazee Hall)

LOCATION: 406 Administration Drive Lexington, KY 40506

KEY PLAN

PROJECT NORTH

SEAL: STATE OF KENTUCKY · WAYNE A. THOMAS · 18553 · LICENSED PROFESSIONAL ENGINEER

ISSUE DATE: July 2, 2021

JOB. NO.: 11396-00

DWG. NO.: E203

BIM 360://11396-00 UK Frazee Hall/20312 R21 UK Frazee Hall MEP .rvt
7/28/2021 12:25:50 PM