



**INVITATION FOR BIDS**  
CCK-2543.0-1-25

**CAER Carbon Fiber Development**  
**Project # 2543.0**  
**ADDENDUM # 2**  
09/16/2024

**IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 09/25/2024 @ 3:00 P.M. LEXINGTON, KY TIME**

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

**ITEM #1: CLARIFICATIONS AND MODIFICATIONS TO THE CONTRACT DOCUMENTS:**

Bidders are instructed to review and incorporate the enclosed Addendum #2 from Omni Architects into their offers.

OFFICIAL APPROVAL  
UNIVERSITY OF KENTUCKY

A blue ink signature of Corey W. Leslie is written over a horizontal line.

Corey W. Leslie

SIGNATURE

---

Typed or Printed Name

## ADDENDUM NUMBER TWO

Bidders shall conform to the following changes, as same shall become binding on the Contract to be issued in response to this Invitation to Bid.

### PROJECT INFORMATION

- Future Addenda and Bidder Questions** – The final addendum will be issued on Wednesday, September 18, 2024.
- Bidder Questions** – Any submitted questions not answered in this addendum, will be included in the final addendum.

### PRODUCT INFORMATION

For all of the product information listed below, Bidders are reminded that the listing of a manufacturer in this document is in no way an endorsement or approval of the manufacturer's products, nor is it a waiver of any specified criteria. All bidders must comply with the criteria originally specified.

### QUESTIONS & CLARIFICATIONS

- Reference Cover Sheet:** Contractor to follow site diagram which indicates project location, entrance to the job site, and contractor parking/lay down area.

### CORRECTIONS / CHANGES

- Reference Specification 11 5313 "Laboratory Fume Hoods", articles 2.4C "VAV Control": Revise the article with the article listed below.

#### 2.4 FUME HOODS

- Product Standards: Comply with SEFA 1, "Laboratory Fume Hoods - Recommended Practices." Provide fume hoods UL listed and labeled for compliance with UL 1805.
- Constant Volume Fume Hoods: Provide constant volume fume hoods without bypass.
  - Provide sufficient bypass capacity so that face velocity with sash opening of 6 inches does not exceed 3 times the face velocity with sash fully open.

- Reference Specification 11 5313 "Laboratory Fume Hoods", article 3.6A.5 & 3.6B.5 "Ventilation Type": Revise article 3.6 A.5 "Ventilation Type" with the article below.

#### 3.6 FUME HOOD SCHEDULE

- Bench-Top Fume Hood:

- Exterior: Steel with chemical-resistant finish.
- Lining Assembly: Stainless steel.
- Nominal Width: 96 inches (2,438 mm).
- Nominal Depth: Manufacturer's standard.
- Ventilation Type: Constant Volume.

- Floor-Mounted Fume Hood:

- Exterior: Steel with chemical-resistant finish.
- Lining Assembly: Stainless steel.
- Nominal Width: 96 inches (2,438 mm).
- Nominal Depth: 48 inches (1,219 mm).
- Ventilation Type: Constant Volume.
- Sash Configuration:

- Refer to the Mechanical Specifications, Section 230200 – HVAC EQUIPMENT AND HYDRONIC SPECIALTIES: Refer to paragraph "2. Equipment". Provided contract drawing and specification requirements

are met, Car-Mon shall be considered an approved equal for the dust collection unit (subsection 2 B), Barrel Hood and Canopy Hoods (subsection 2 G), and Snorkel / Fume Arms (subsection 2 H).

7. Refer to the Plumbing Drawings, Sheet P2.0 – FIRST FLOOR PLUMBING PLAN: Added deck mounted emergency eye wash/drench hose, floor drain, cleanout, and associated plumbing piping. Refer to clouded revision on sheet. Revised tagging for better clarity. Refer to clouded revisions on sheet.
8. Refer to the Plumbing Drawings, Sheet P2.0A – FIRST FLOOR PLUMBING PLAN – ALT#1: Added deck mounted emergency eye wash/drench hose, floor drain, cleanout, and associated plumbing piping. Refer to clouded revision on sheet.
9. Refer to the Plumbing Drawings, Sheet P3.0 – PLUMBING DETAILS, SCHEMATICS, AND SCHEDULES: Refer to the “PLUMBING FIXTURE SCHEDULE”: Revised fixtures “P-2” and “P-3” and added fixture “P-8”. Refer to clouded revisions on sheet.
10. Refer to the Plumbing Drawings, Sheet P4.0 – SANITARY AND VENT RISER: Revised riser per the updates in this addendum. Refer to clouded revisions on sheet.
11. Refer to the Plumbing Drawings, Sheet P4.0A – SANITARY AND VENT RISER – ALT#1: Revised riser per the updates in this addendum. Refer to clouded revisions on sheet.
12. Refer to the Mechanical Drawings, Sheet UM2.0 – MECHANICAL SITE PLAN: Deleted sanitary manhole. Revised sanitary pipe routing and added exterior cleanouts. Revised tagging for better clarity. Refer to clouded revisions on sheet.

# UK CAER-CARBON FIBER DEVELOPMENT FACILITY

UK Project Number: 2543.0

Omni Project Number: 2021

**2540 RESEARCH PARK DR.  
LEXINGTON, KY 40511**

## SCHEDULE OF DRAWINGS

### GENERAL

C-0  
SS001

COVER SURVEY

**SITE**

L0.0 SITE LOGISTICS PLAN  
L1.0 EPSC PLAN  
L2.0 SITE CLEARING PLAN  
L3.0 SITE GRADING & DRAINAGE PLAN  
L4.0 SITE GRADING & DRAINAGE PLAN  
L6.0 SITE DETAILS

**STRUCTURAL**

S1.1 GENERAL NOTES  
S1.2 SPECIAL INSPECTIONS  
S1.3 ISOMETRIC VIEWS  
S2.1 FOUNDATION PLAN AND SECTIONS  
S2.2 ROOF FRAMING PLAN AND SECTIONS  
S3.1 TYPICAL FOUNDATION DETAILS  
S4.1 TYPICAL FRAMING DETAILS  
S5.1 STEEL COLUMN SCHEDULE  
S6.1 TYPICAL COLD-FORMED STEEL FRAMING DETAILS  
S6.2 TYPICAL COLD-FORMED STEEL ROOF TRUSS DETAILS

**ARCHITECTURAL**

A-0.1 GENERAL INFORMATION  
A-0.2 TYPICAL MOUNTING HEIGHTS  
A-0.3 GENERAL INFORMATION AND INTERIOR WALL TYPES  
A-1.0d DIMENSION PLAN  
A-1.1 FLOOR PLANS  
A-1.2 3D VIEWS  
A-2.1 BUILDING ELEVATIONS & SECTIONS  
A-4.1 WALL SECTIONS  
A-5.1 ENLARGED RESTROOMS & INTERIOR ELEVATIONS  
A-6.1 REFLECTED CEILING PLAN  
A-7.1 ROOF PLAN  
A-7.2 ROOF DETAILS  
A-8.1 DOOR SCHEDULE, HOLLOW METAL, SPECIALTY OPENING & DETAILS  
A-8.2 METAL WALL PANEL & MISC. DETAILS  
A-9.1 MISCELLANEOUS DETAILS  
A-10.1 EQUIPMENT PLAN

### ELECTRICAL

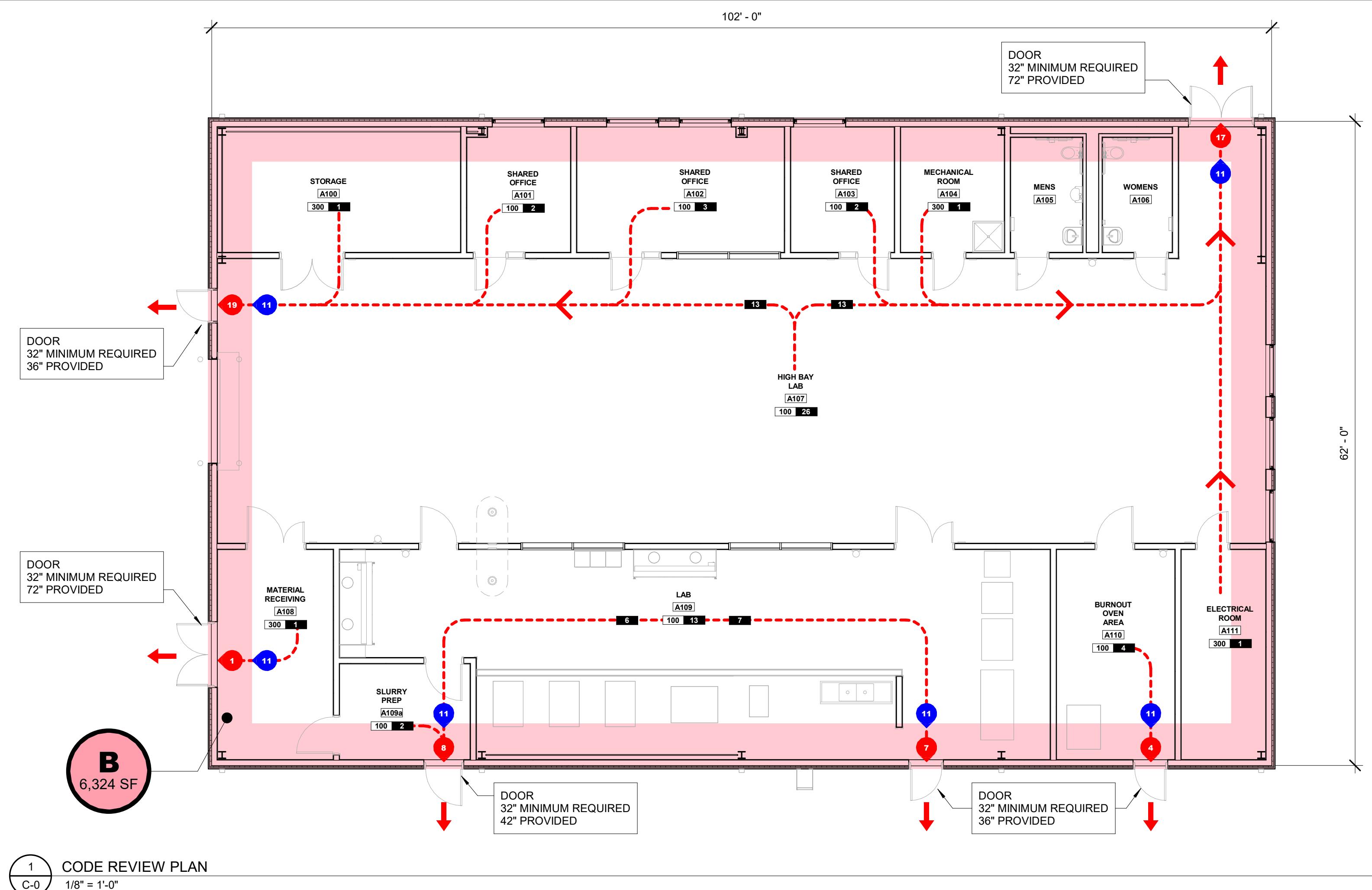
E1.0 ELECTRICAL LEGEND  
E1.2 FIRST FLOOR POWER SYSTEMS - NEW WORK  
E2.1 ROOF PLATE - ELECTRICAL NEW WORK  
E3.0 LUMINARE SCHEDULE @ ELECTRICAL DETAILS  
E5.0 ONE-LINE DIAGRAM  
E7.0 PANELBOARD SCHEDULES  
UE1.0 ELECTRICAL SITE PLAN

### MECHANICAL

M1.0 MECHANICAL LEGEND  
M2.0 FIRST FLOOR MECHANICAL PLAN  
M2.0A FIRST FLOOR MECHANICAL PLAN - ALT #1  
M3.0 ENLARGED MECHANICAL PLANS  
M3.1 ENLARGED MECHANICAL PLANS  
M4.0 MECHANICAL DETAILS  
M5.0 MECHANICAL SECTIONS  
M5.1 MECHANICAL SECTIONS  
M6.0 MECHANICAL SCHEDULES  
M7.0 MECHANICAL SCHEDULES  
UM1.0 MECHANICAL SITE DEMOLITION PLAN  
UM2.0 MECHANICAL SITE PLAN

### PLUMBING

P1.0 PLUMBING LEGEND  
P2.0 FIRST FLOOR PLUMBING PLAN  
P2.0A FIRST FLOOR PLUMBING PLAN - ALT #1  
P3.0 PLUMBING DRAWS, SPECIALTICS, AND SCHEDULES  
P4.0 SANITARY AND VENT RISER  
P4.0A SANITARY AND VENT RISER - ALT #1  
P5.0 NATURAL GAS RISER



CODE REVIEW PLAN  
C-0  
1/8" = 1'-0"

## BUILDING CODE ANALYSIS (2018 KBC)

THE PROJECT INCLUDES NEW CONSTRUCTION OF A ONE STORY ASSEMBLY BUILDING FOR THE UK CAER CAMPUS.

OCCUPANCY GROUP: B, BUSINESS

CONSTRUCTION TYPE: TYPE II B, NON-COMBUSTIBLE

NUMBER OF STORIES: 1 OCCUPIED FLOORS

SPRINKLER SYSTEM: NON-SPRINKLERED

BUILDING HEIGHT: (1) STORIES @ 25"

BUILDING AREA: FIRST FLOOR 6,324 SF

TOTAL 6,324 SF

ALLOWABLE BUILDING AREA PER TYPE II B CONSTRUCTION (BUSINESS) NON-SPRINKLERED = 23,000 SF (PER TABLE 506.2)

OCCUPANT LOAD (1004.1.2)

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT: BUSINESS AREAS 100 GROSS ACCESSORY STORAGE/ MECHANICAL 300 GROSS

APPROXIMATE AREAS: OCCUPANT AREA AREA / LOAD FACTOR OCCUPANTS

BUSINESS AREAS 6,324 SF / 100 GROSS = 64  
ACCESSORY STORAGE / MECHANICAL 6,324 SF / 300 GROSS = 21

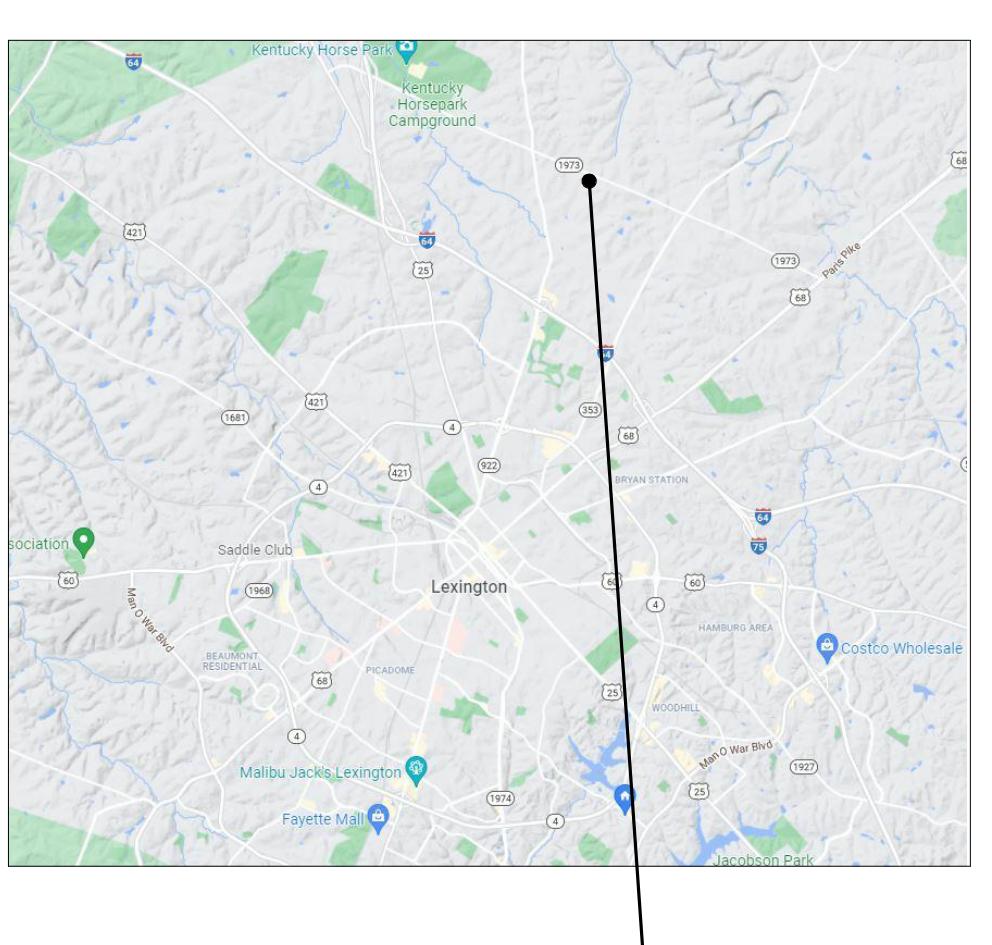
TOTAL OCCUPANT LOAD 85

FIRE-RESISTANCE RATINGS REQUIREMENTS (TABLE 601)	
BUILDING ELEMENTS FOR TYPE II B CONSTRUCTION	HOURS
STRUCTURAL FRAME	
INCLUDING COLUMNS, GIRDERS, TRUSSES (EXCLUDES DIAGONAL BRACING FOR WIND LOADS)	0
SUPPORTING ROOF ONLY (EQUIPMENT PENTHOUSE COLUMNS)	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
INTERIOR WHERE SUPPORTING ROOF ONLY	0
NON BEARING WALLS AND PARTITIONS	
EXTERIOR (BASED ON FIRE SEPARATION DISTANCE GREATER THAN 30 FEET PER TABLE 602)	0
INTERIOR	0
FLOOR CONSTRUCTION	
INCLUDING METAL DECK, SUPPORTING BEAM, AND JOIST	0
ROOF CONSTRUCTION	
INCLUDING METAL DECK, SUPPORTING BEAM, AND JOIST	0
SPECIAL CONDITIONS	
SHAFT ENCLOSURES (PER 713.4)	0

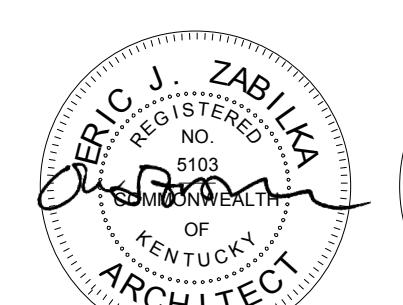
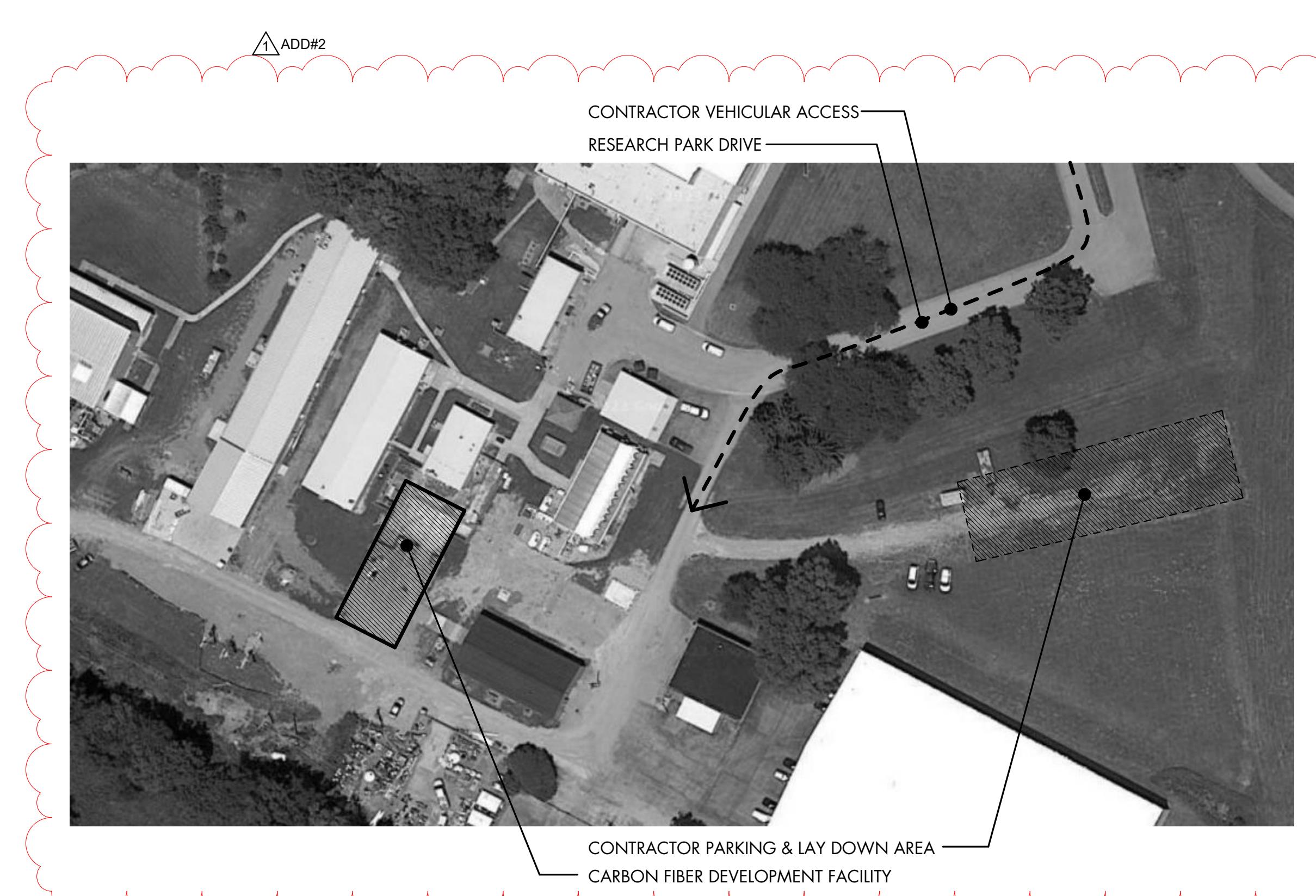
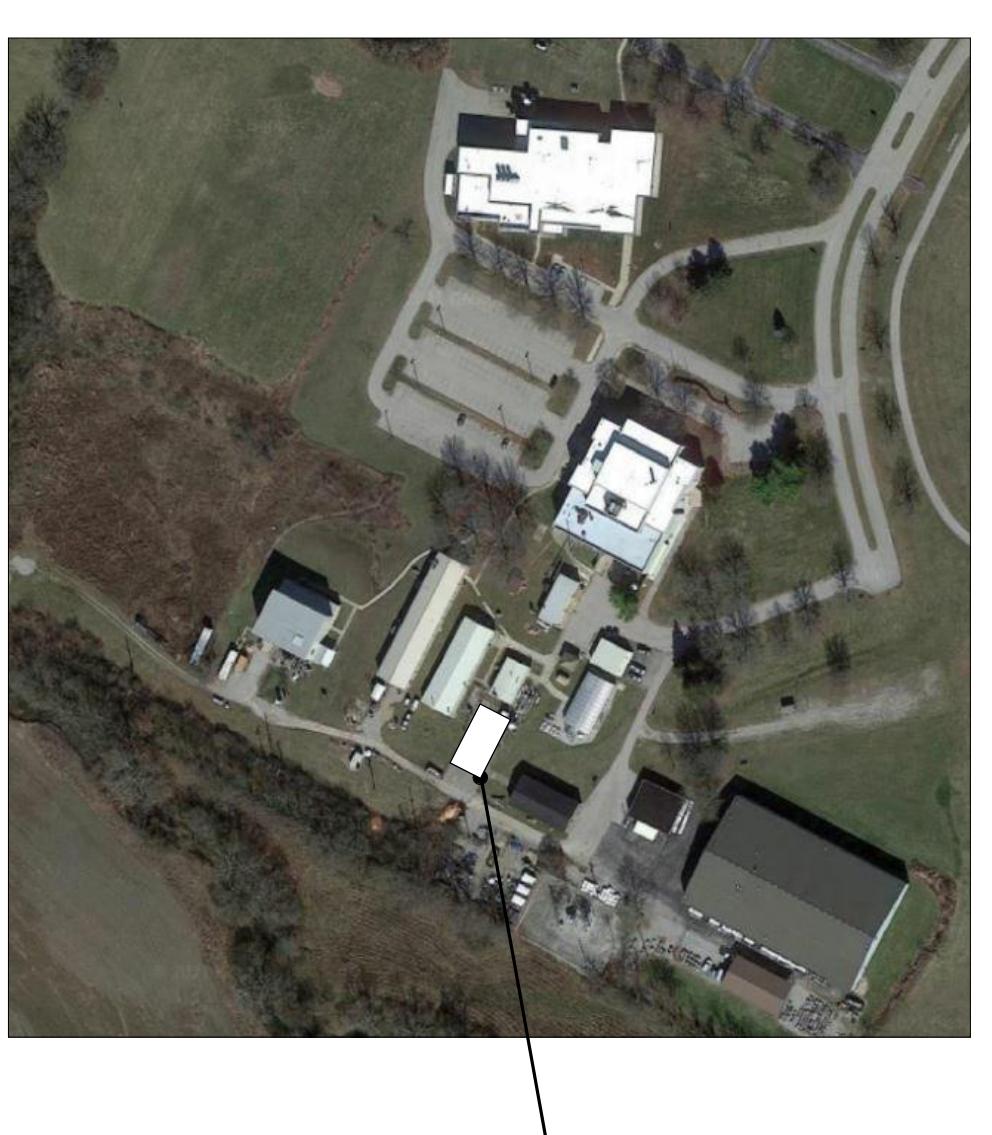
## GRAPHIC LEGEND

	USE GROUP TAG
	USE GROUP
	GROSS SQUARE FOOTAGE
	USE GROUP - BUSINESS (B) PER CHAPTER 3
	1-HOUR RATED FIRE BARRIER
	EGRESS TRAVEL DISTANCE
	EGRESS PATH
	EXIT ACCESS SEPARATION DISTANCE
	CUMULATIVE OCCUPANT LOAD DISCHARGE (EXTERIOR)
	CUMULATIVE OCCUPANT LOAD DISCHARGE (INTERIOR)
	OCCUPANT LOAD DISCHARGE
	ROOM TAG
	ROOM NUMBER
	ANTICIPATED OCCUPANT LOAD
	VALUE FROM TABLE 1004.2 BASED ON SPACE FUNCTION
	EGRESS POINT
	OCCUPANT LOAD LIMIT SIGNAGE

## VICINITY MAP 1



## VICINITY MAP 2



212 North Upper Street  
Lexington, Kentucky 40507  
p. 859.252.6664  
www.omniarchitects.com



**BROWN + KUBICAN**  
Structural Engineers

2224 Young Drive, Lexington, KY 40505  
p 859.543.0933



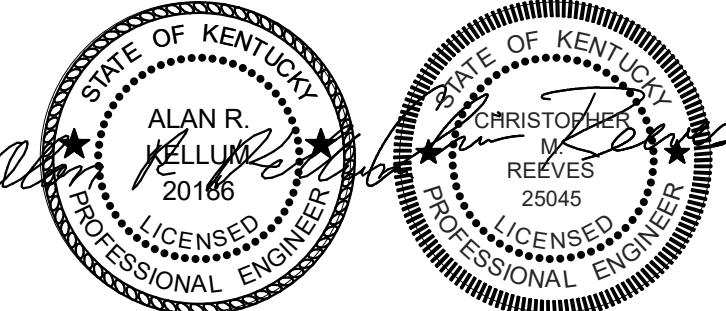
**CMTA**  
Mechanical / Electrical Engineers

2429 Members Way, Lexington, KY 40504  
p 859.253.0892



**ELEMENT DESIGN**  
Landscape Architects / Civil Engineers

366 South Broadway, Lexington, KY 40508  
p 859.389.6533



## UNIVERSITY OF KENTUCKY UK CAER - CARBON FIBER DEVELOPMENT FACILITY

© This Drawing and the Design shown thereon are the property of Omni Architects. The reproduction, copying, or other use of this Drawing or Design without the written consent of Omni Architects is prohibited.

PROJECT NUMBER 2021

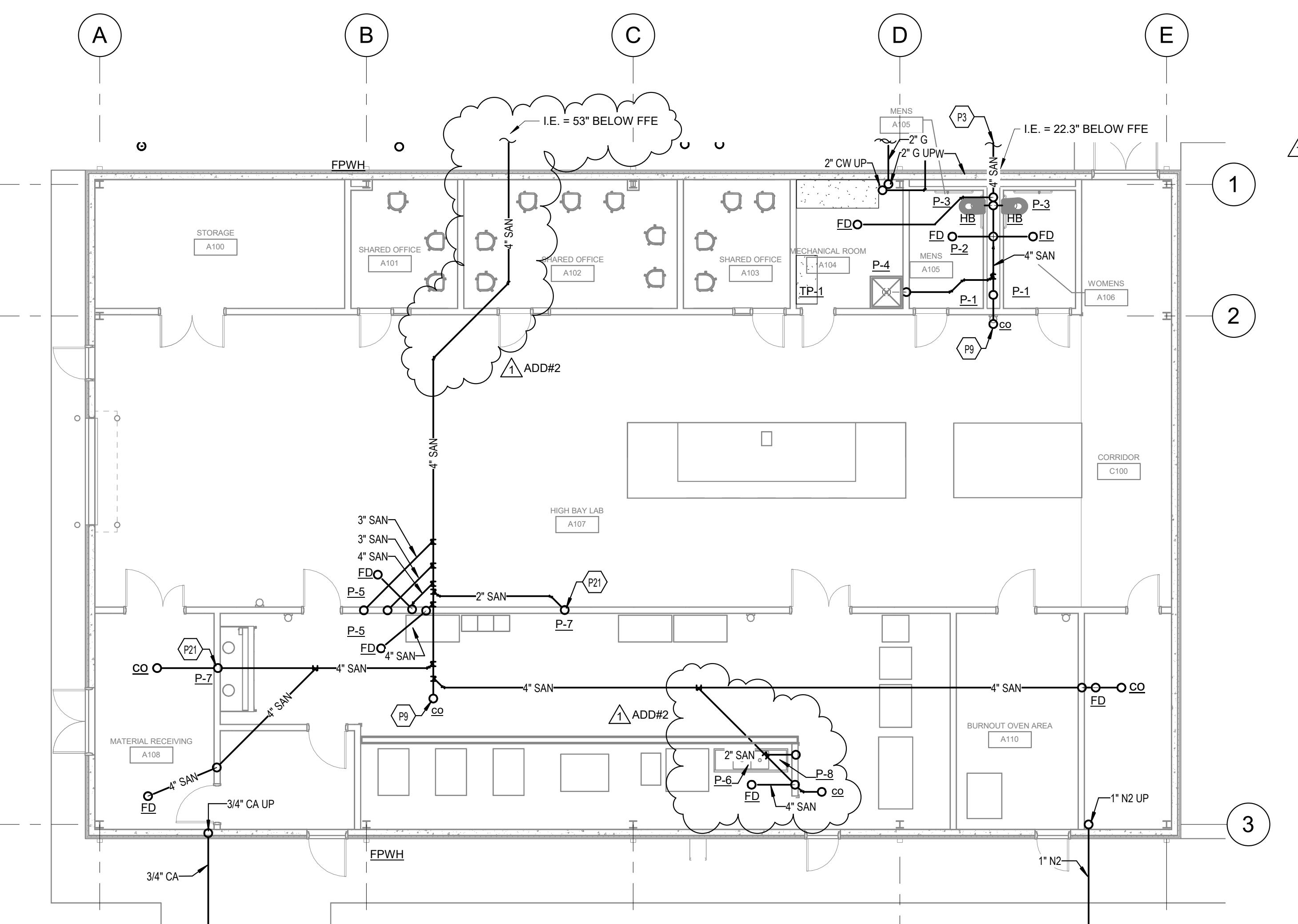
DATE 09/10/204  
100% CONSTRUCTION DOCUMENTS

REVISIONS  
BID CHANGES DATE

FIRST FLOOR PLUMBING  
PLAN

### TAGGED NOTES

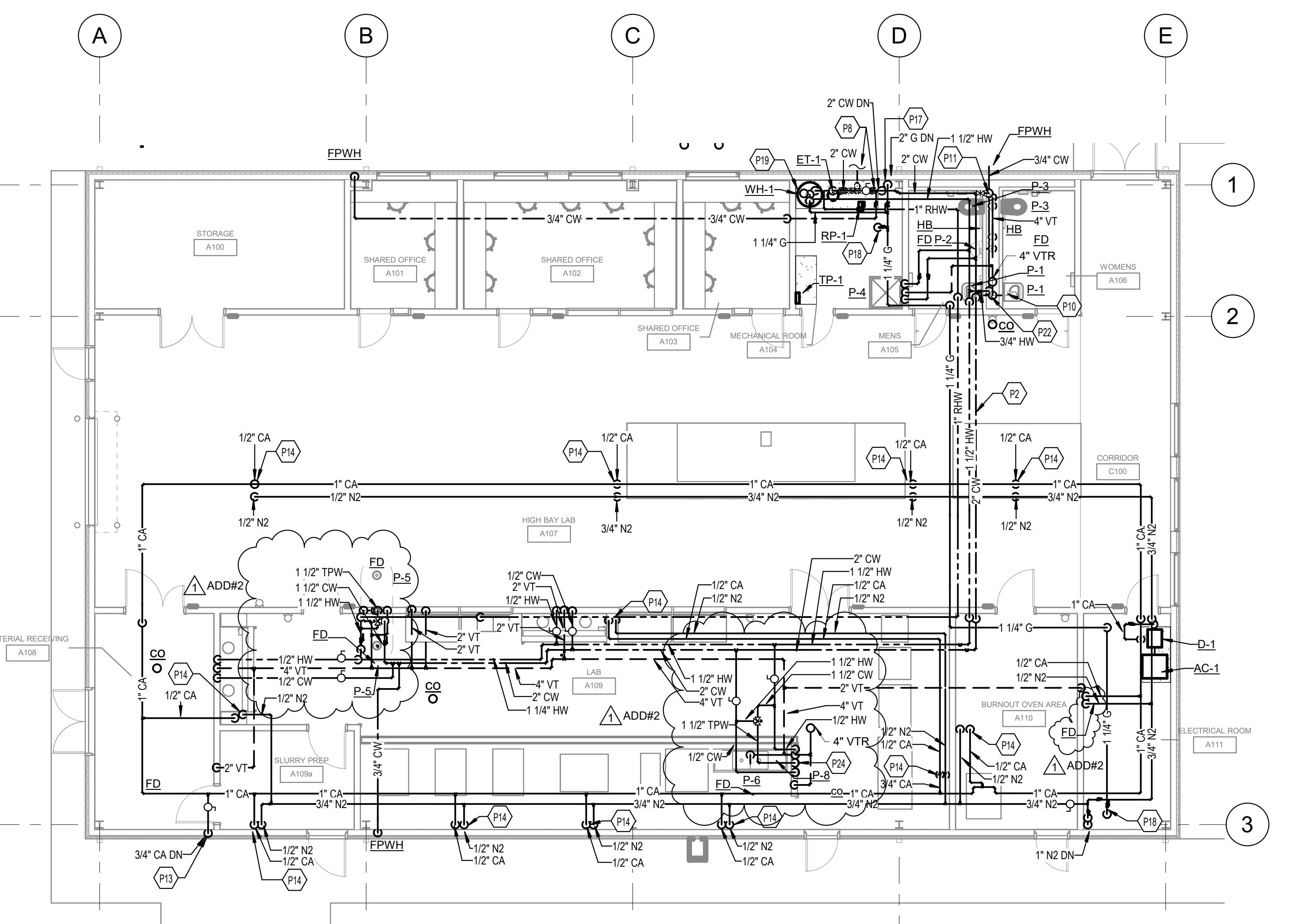
P2 ALL EXPOSED PLUMBING UTILITIES SHALL BE CANVAS WRAPPED AND PAINTED AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE.  
P3 REFER TO SITE PLAN FOR CONTINUATION.  
P8 DOMESTIC WATER ENTERS BUILDING AT INDICATED LOCATION. PROVIDE 8" DIA. PLATED ESCUTCHEON WITH SET SCREWS FOR ALL WATER SUPPLY AND WASTE PIPING EXITING A WALL TO CONNECT TO A FIXTURE. TYPICAL.  
P10 PROVIDE 4" CLEANDUT AT INDICATED LOCATION.  
P11 2" DOMESTIC COLD WATER PIPING DOWN IN WATER WALL TO SERVE PLUMBING FIXTURES.  
P13 ROUTE 3/4" COMPRESSED AIR PIPING TO DUST COLLECTION UNIT DC-1. PROVIDE COMPRESSED AIR PIPING AND ACCESSORIES PER MANUFACTURER REQUIREMENTS. REFER TO SHEETS M2.0 AND UM2.0.  
P14 PROVIDE COMPRESSED AIR DROP AND NITROGEN DROP AT INDICATED LOCATION. COORDINATE EXACT LOCATION LENGTH OF EACH DROP WITH OWNER PROVIDED DUST COLLECTION SYSTEM. CONNECT COMPRESSED AIR AND NITROGEN DROPS WITH SHUTOFF VALVE AND QUICK DISCONNECT.  
P17 NATURAL GAS ENTERS BUILDING AT INDICATED LOCATION.  
P18 PROVIDE NATURAL GAS TO SPLIT SYSTEM UNIT. TRANSITION SIZE AS REQUIRED AT UNIT TO MAKE CONNECTION.  
P19 PROVIDE NATURAL GAS TO WATER HEATER. TRANSITION SIZE AS REQUIRED AT WATER HEATER TO MAKE CONNECTION.  
P21 NOTE: ACID NEUTRALIZATION KIT SERVING FUME HOOD SHALL BE INSTALLED UPSTREAM OF P-TRAP (I.E. P-TRAP SHALL BE CONNECTED TO OUTLET OF ACID NEUTRALIZATION KIT)  
P22 3/4" DOMESTIC HOT WATER PIPING DOWN IN WATER WALL TO SERVE P-1 FIXTURES.  
P23 1" DW, 1/2" HW, AND 1-1/2" TPW PIPING DOWN WITHIN WALL TO SERVE SINK AND DECK MOUNTED EYE WASH/DRENCH HOSE. CONCEAL PIPING UNDER CASEWORK TO EACH PLUMBING FIXTURE.



② FIRST FLOOR UNDERSLAB PLUMBING PLAN

SCALE: 1/8" = 1'-0"

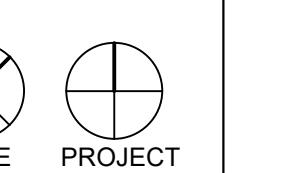
0 2' 4' 8' 16' 24' 32'



① FIRST FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'



P2.0





UNIVERSITY OF KENTUCKY  
UK CAER - CARBON FIBER  
DEVELOPMENT FACILITY

© This Drawing and the Design shown thereon are the property of Omni Architects. The reproduction, copying, or other use of this Drawing or Design without the written consent of Omni Architects is prohibited.

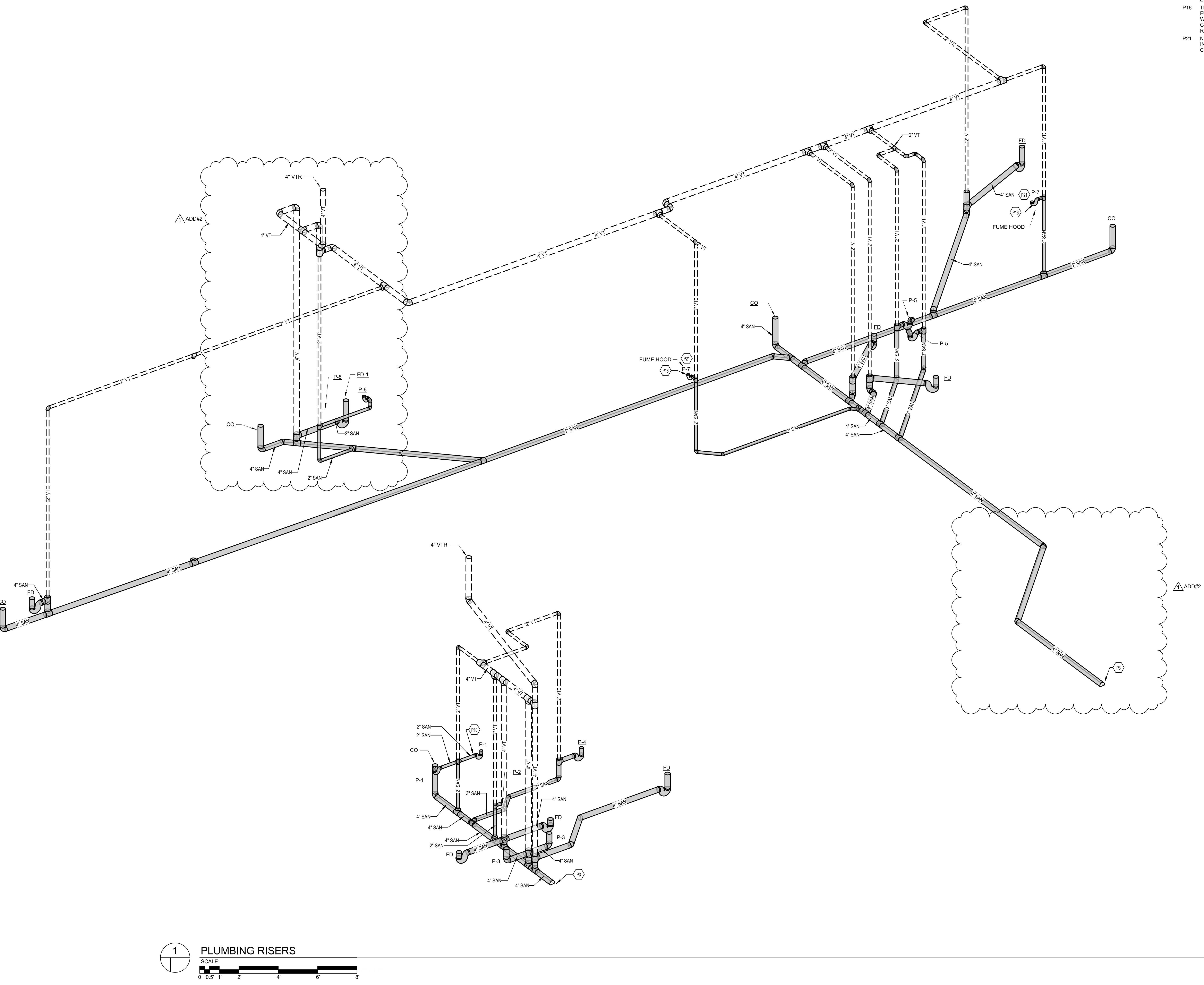
PROJECT NUMBER 2021

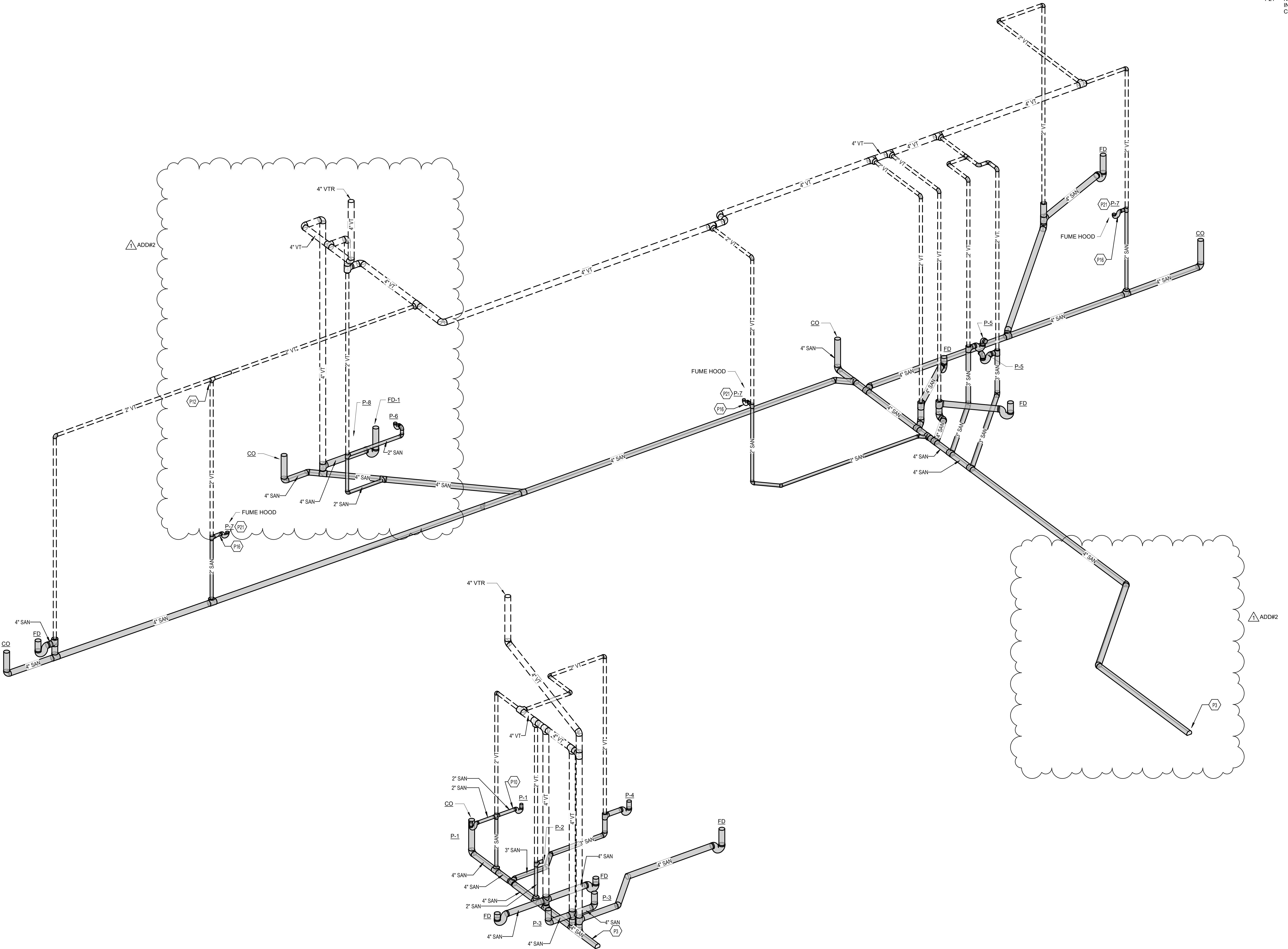
DATE 09/10/204  
100% CONSTRUCTION DOCUMENTS

REVISIONS  
BID CHANGES DATE

TAGGED NOTES

P3 REFER TO SITE PLAN FOR CONTINUATION.  
P10 PROVIDE CHROME PLATED ESCUTCHEON WITH SET SCREWS FOR ALL WATER SUPPLY AND WASTE PIPING EXITING A WALL TO CONNECT TO A FIXTURE, TYPICAL.  
P16 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL Duct HOOD CONNECTIONS AS EXCLUDING DOMESTIC WATER, VENT, AND WASTE PIPING AS REQUIRED TO MAKE CONNECTION TO FUME HOOD PER MANUFACTURER REQUIREMENTS, TYPICAL.  
P21 NOTE: ACID NEUTRALIZATION KIT SERVING FUME HOOD SHALL BE INSTALLED UPSTREAM OF P-TRAP (I.E. P-TRAP SHALL BE CONNECTED TO OUTLET OF ACID NEUTRALIZATION KIT)





## TAGGED NOTES

P3 REFER TO SITE PLAN FOR CONTINUATION.

P10 PROVIDE CHROME PLATED ESCUTCHEON WITH SET SCREWS FOR ALL WATER SUPPLY AND WASTE PIPING EXITING A WALL TO CONNECT TO A FIXTURE, TYPICAL.

P12 ALTERNATE #1 SHALL INCLUDE THE ADDITION OF A 1/2" DOMESTIC COLD WATER, 1/2" DOMESTIC HOT WATER, 2" VENT PIPING, AND 4" SANITARY WASTE PIPING ROUTED TO FUTURE FUME HOOD TO BE LOCATED IN "BURNOUT OVEN AREA A110". PROVIDE WITH ACID NEUTRALIZATION KIT. KIT SHALL BE INSTALLED UPSTREAM OF P-TRAP (I.E., P-TRAP SHALL BE CONNECTED TO OUTLET OF ACID NEUTRALIZATION KIT). REFER TO, AND COORDINATE WITH, ARCHITECTURAL PLANS FOR EXACT LOCATION OF FUTURE FUME HOOD AND EXTEND ALL PIPING AS REQUIRED. ALL OTHER BASE BID SCOPE IN THE PROJECT SHALL BE INCLUDED IF THIS ALTERNATE IS ACCEPTED.

P16 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FUME HOOD UTILITY CONNECTIONS AND EXTENDING DOMESTIC WATER, VENT, AND WASTE PIPING AS REQUIRED TO MAKE CONNECTION TO FUME HOOD PER MANUFACTURER REQUIREMENTS, TYPICAL.

P21 NOTE: ACID NEUTRALIZATION KIT SERVING FUME HOOD SHALL BE INSTALLED UPSTREAM OF P-TRAP (I.E., P-TRAP SHALL BE CONNECTED TO OUTLET OF ACID NEUTRALIZATION KIT)

# Omni<sup>®</sup> A B C U L T E C T S

212 North Upper Street  
Lexington, Kentucky 40507  
p. 859.252.6664  
[www.omniarchitects.com](http://www.omniarchitects.com)

**BK** BROWN+KUBICAN  
STRUCTURAL ENGINEERS

 CMTA



element  
design

The image displays two circular Kentucky state engineer seals. The left seal is for Alan R. Kellum, licensed in 2016. The right seal is for Christopher M. Reeves, licensed in 2045. Both seals feature a star in the center and a signature over the text.

# UK CAER - CARBON FIBER DEVELOPMENT FACILITY

is Drawing and the Design shown thereon are the property of Omni Architects. The reproduction, copying or use of this Drawing or Design without the written consent of Omni Architects is prohibited.

EXCT NUMBER 202

09/10/2023

ONS

DATA CHANGES

# ANITARY AND VENT RISER - ALT#1

## PLUMBING RISERS - ALT#1

A scale bar for architectural drawings, showing a horizontal line with markings. The first 2 feet are divided into 0, 0.5', 1', and 2' increments. The remaining 6 feet are divided into 4', 6', and 8' increments. A 1-foot section is marked with a cross-hatch pattern.

1

# P4.0A

## UNIVERSITY OF KENTUCKY UK CAER - CARBON FIBER DEVELOPMENT FACILITY

© This Drawing and the Design shown thereon are the property of Omni Architects. The reproduction, copying, or other use of this Drawing or Design without the written consent of Omni Architects is prohibited.

PROJECT NUMBER 2021

DATE 09/10/204

100% CONSTRUCTION DOCUMENTS

REVISIONS

BID CHANGES

DATE

### MECHANICAL SITE PLAN



### TAGGED NOTES

- U1 REFER TO "FIRST FLOOR PLUMBING PLAN", SHEET P2.0, FOR CONTINUATION.
- U2 DOMESTIC WATER ENTERS BUILDING AT INDICATED LOCATION. REFER TO "FIRST FLOOR PLUMBING PLAN", SHEET P2.0, FOR CONTINUATION.
- U5 EXISTING DOMESTIC WATER PIPING FEEDING EXISTING CARBON FIBER BUILDING SHALL REMAIN.
- U6 EXISTING DOMESTIC WATER PIPING FEEDING COAL PITCH BUILDING SHALL REMAIN.
- U7 NATURAL GAS METER AND ASSOCIATED NATURAL GAS PIPING UP TO THE BUILDING SHALL BE PROVIDED BY COLUMBIA NATURAL GAS COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY PROVIDER TO COORDINATE WORK ASSOCIATED WITH THIS ITEM PRIOR TO FABRICATING OR INSTALLING THE PIPING.
- U8 CONNECT NEW 1" NITROGEN PIPING TO EXISTING 1" CAPPED NITROGEN PIPING LOCATED IN VALVE VAULT AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.
- U10 PROVIDE FLUE SIZED PER EQUIPMENT REQUIREMENTS. GOOSE NECK SHALL BE AT ROOF SURFACE.
- U11 PROVIDE CONCENTRIC FLU FLUE PER WATER HEATER MANUFACTURER REQUIREMENTS. FLUE SHALL BE AT LEAST 10'-0" AWAY FROM S-8 OUTSIDE AIR INTAKE.
- U13 ALTERNATE#1 SHALL INCLUDE CHANGING EXHAUST FAN EF-2 TO EF-2-ALT#1. REFER TO MECHANICAL PLANS AND SCHEDULE FOR MORE INFORMATION. SHEETS M2.0A AND M6.0.
- U14 ALTERNATE#1 SHALL INCLUDE CHANGING MAKE-UP AIR UNIT MAU-2 TO MAU-2-ALT#1. REFER TO MECHANICAL PLANS AND SCHEDULE FOR MORE INFORMATION. SHEETS M2.0A AND M6.0.
- U16 TIE NEW 4" SANITARY SEWER PIPING INTO EXISTING MANHOLE. PAVING AND REPAIR MANHOLE AS REQUIRED TO ENSURE WATER TIGHT SEAL.
- U17 PROVIDE CONCENTRIC FLU FLUE FOR SPLIT SYSTEM UNIT PER MANUFACTURER REQUIREMENTS. AT THE CONTRACTOR'S OPTION, SEPARATE INTAKE / EXHAUST MAY BE PROVIDED. SIZE PER MANUFACTURER REQUIREMENT. FLUE SHALL BE AT LEAST 10'-0" AWAY FROM L-2 OUTSIDE AIR INTAKE.
- U18 PROVIDE CONCENTRIC FLU FLUE FOR SPLIT SYSTEM UNIT PER MANUFACTURER REQUIREMENTS. AT THE CONTRACTOR'S OPTION, SEPARATE INTAKE / EXHAUST MAY BE PROVIDED. SIZE PER MANUFACTURER REQUIREMENTS.
- U19 THE CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL SURFACES THAT ARE AFFECTED BY NEW WORK. THIS INCLUDES PATCHING AND REPAIRING PAVEMENT, ROADS, GRAVEL, AND RESEEDING GRASS. DO NOT ROUTE UTILITIES BELOW EQUIPMENT PADS. PROVIDE EXTERNAL CLEANOUT AT INDICATED LOCATION.

△ ADD#2

U20

U21